

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL86237

PAGE: 1 OF 7

ISSUE DATE: 12/29/15

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: MN-LED-e69-FL-12-C, SN-MN-LED-e69-FL-12, ST-MN-LED-e69-FL-12,
SF-MN-LED-e69-FL-12, TF-MN-LED-e69-FL-12, RM-MN-LED-e69-FL-12,
PM-MN-LED-e69-FL-12, WM-MN-LED-e69-FL-12, SM-MN-LED-e69-FL-12,
CH-LED-e69-FL-12

LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, 1 BLACK CIRCUIT BOARD WITH 3 LEDS,
ONE CLEAR PRISMATIC PLASTIC LENS WITH ONE CONICAL OPTIC PER LED WITH
SEMI-HEMISPHERICAL RECESSED CENTER TOWARD LED, CLEAR MICRO-PRISMATIC FLAT
GLASS LENS IN MACHINED CYLINDRICAL BLACK PAINTED METAL LENS FRAME. LENS PRISMS
OUT. LUMINAIRE AIMED AT THE HORIZON FOR THIS TEST.

LAMPS: THREE WHITE LIGHT EMITTING DIODES (LEDs), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 12.0 VOLTS, 6.68 WATTS, 0.617 AMPS

LED DRIVER: B-K LIGHTING 524438/400188-L

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (12VAC,
60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

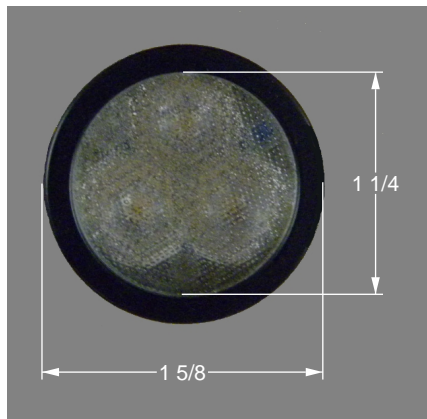
TEST DISTANCE = 20.0 FEET

FLOODLIGHT CHARACTERISTICS

AXIAL CANDLEPOWER

IES TYPE 4H X 4V
MAXIMUM CANDLEPOWER 1469. AT 0.0 H, 0.0 V
HORIZONTAL BEAM ANGLE (50%) 28.5 deg
VERTICAL BEAM ANGLE (50%) 28.5 deg
HORIZONTAL FIELD ANGLE (10%) 56.3 deg
VERTICAL FIELD ANGLE (10%) 55.7 deg
BEAM LUMENS (% FIXTURE) 203. (42.2 %)
FIELD LUMENS (% FIXTURE) 390. (81.0 %)
TOTAL LUMENS (% FIXTURE) 481. (100.0 %)
EFFICACY = 72.0 lm/W

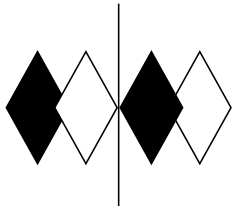
DEG	HORIZ.	DEG	VERT.
90.0	0.	90.0	0.
85.0	0.	85.0	0.
75.0	2.	75.0	2.
65.0	5.	65.0	4.
55.0	10.	55.0	10.
47.5	18.	47.5	18.
42.5	28.	42.5	28.
37.5	46.	37.5	47.
33.0	79.	33.0	79.
29.0	129.	29.0	132.
25.5	203.	25.5	204.
22.5	294.	22.5	305.
19.5	420.	19.5	439.
17.0	558.	17.0	567.
15.0	682.	15.0	705.
13.0	821.	13.0	843.
11.0	967.	11.0	986.
9.0	1110.	9.0	1142.
7.0	1240.	7.0	1262.
5.0	1353.	5.0	1365.
3.0	1427.	3.0	1432.
1.0	1465.	1.0	1464.
0.0	1469.	0.0	1469.
-1.0	1465.	-1.0	1463.
-3.0	1427.	-3.0	1425.
-5.0	1353.	-5.0	1345.
-7.0	1240.	-7.0	1234.
-9.0	1110.	-9.0	1101.
-11.0	967.	-11.0	958.
-13.0	821.	-13.0	786.
-15.0	682.	-15.0	642.
-17.0	558.	-17.0	521.
-19.5	420.	-19.5	389.
-22.5	294.	-22.5	269.
-25.5	203.	-25.5	184.
-29.0	129.	-29.0	117.
-33.0	79.	-33.0	70.
-37.5	46.	-37.5	43.
-42.5	28.	-42.5	29.
-47.5	18.	-47.5	22.
-55.0	10.	-55.0	15.
-65.0	5.	-65.0	7.
-75.0	2.	-75.0	2.
-85.0	0.	-85.0	0.
-90.0	0.	-90.0	0.



Checked *B HYRE*.....
Approved *R BEATTIE*.....
Lighting Engineer

ALL CANDELA AND LUMEN VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY.

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



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PAGE: 2 OF 7

CANDELA TABULATION

AVERAGE OF RIGHT AND LEFT SIDES

	0.0	1.0	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.5	22.5	25.5	29.0	33.0	37.5	42.5	47.5	55.0	65.0	75.0	85.0	90.0
90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
75.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	0.	0.	0.	0.
65.0	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.	2.	1.	0.	0.	0.
55.0	10.	10.	10.	10.	10.	10.	9.	9.	9.	9.	9.	9.	8.	8.	7.	7.	6.	6.	4.	2.	1.	0.	0.
47.5	18.	18.	18.	18.	18.	17.	17.	17.	16.	15.	15.	14.	13.	12.	11.	11.	10.	9.	6.	3.	1.	0.	0.
42.5	28.	28.	28.	27.	27.	26.	26.	25.	24.	22.	21.	20.	18.	16.	15.	14.	12.	11.	7.	3.	1.	0.	0.
37.5	47.	47.	46.	46.	45.	43.	42.	40.	37.	35.	32.	29.	26.	22.	20.	17.	15.	13.	8.	4.	1.	0.	0.
33.0	79.	81.	79.	78.	75.	71.	68.	63.	59.	54.	48.	41.	35.	30.	25.	21.	18.	14.	9.	4.	2.	0.	0.
29.0	132.	134.	131.	128.	123.	115.	108.	98.	90.	80.	70.	58.	48.	38.	31.	25.	20.	15.	10.	4.	2.	0.	0.
25.5	204.	208.	202.	196.	187.	175.	161.	146.	130.	115.	97.	78.	62.	48.	37.	28.	21.	16.	10.	5.	2.	0.	0.
22.5	305.	302.	296.	283.	268.	249.	227.	203.	179.	155.	128.	100.	78.	59.	43.	31.	23.	17.	10.	5.	2.	0.	0.
19.5	439.	434.	424.	402.	378.	347.	313.	276.	239.	205.	166.	127.	97.	70.	50.	34.	24.	17.	10.	5.	2.	0.	0.
17.0	567.	575.	565.	533.	496.	452.	402.	352.	302.	257.	204.	153.	114.	81.	55.	37.	25.	17.	11.	5.	2.	0.	0.
15.0	705.	715.	698.	654.	605.	547.	484.	421.	359.	303.	238.	176.	128.	89.	59.	39.	25.	17.	11.	5.	2.	0.	0.
13.0	843.	846.	823.	779.	718.	648.	571.	492.	417.	350.	273.	199.	143.	97.	63.	41.	26.	18.	11.	5.	2.	0.	0.
11.0	986.	984.	958.	915.	843.	758.	665.	569.	480.	398.	308.	221.	158.	105.	67.	43.	27.	18.	11.	5.	2.	0.	0.
9.0	1142.	1128.	1097.	1042.	968.	868.	758.	644.	542.	445.	342.	243.	171.	112.	71.	44.	27.	18.	11.	5.	2.	0.	0.
7.0	1262.	1253.	1219.	1156.	1071.	961.	840.	712.	597.	488.	373.	263.	183.	119.	74.	45.	27.	18.	11.	5.	2.	0.	0.
5.0	1365.	1353.	1318.	1249.	1155.	1035.	907.	769.	642.	524.	398.	278.	193.	124.	76.	46.	28.	18.	11.	5.	2.	0.	0.
3.0	1432.	1420.	1387.	1317.	1208.	1082.	947.	803.	669.	546.	412.	288.	199.	127.	78.	47.	28.	18.	11.	5.	2.	0.	0.
1.0	1464.	1456.	1421.	1347.	1238.	1107.	965.	819.	681.	556.	419.	294.	202.	129.	79.	46.	28.	18.	11.	5.	2.	0.	0.
0.0	1469.	1465.	1427.	1353.	1240.	1110.	967.	821.	682.	558.	420.	294.	203.	129.	79.	46.	28.	18.	10.	5.	2.	0.	0.
-1.0	1463.	1460.	1423.	1347.	1235.	1104.	962.	817.	678.	554.	419.	293.	202.	128.	78.	46.	27.	18.	10.	5.	2.	0.	0.
-3.0	1425.	1415.	1380.	1303.	1194.	1066.	926.	787.	653.	534.	406.	286.	197.	125.	76.	45.	27.	18.	10.	5.	2.	0.	0.
-5.0	1345.	1335.	1299.	1227.	1123.	1000.	870.	739.	615.	502.	383.	271.	189.	120.	74.	44.	27.	18.	10.	5.	2.	0.	0.
-7.0	1234.	1224.	1189.	1123.	1027.	916.	798.	679.	567.	465.	357.	253.	177.	114.	70.	43.	26.	17.	10.	5.	2.	0.	0.
-9.0	1101.	1087.	1058.	999.	916.	819.	716.	612.	511.	421.	324.	232.	163.	106.	66.	41.	25.	17.	10.	5.	2.	0.	0.
-11.0	958.	953.	918.	869.	799.	716.	628.	539.	452.	375.	289.	208.	148.	98.	62.	39.	24.	16.	10.	5.	2.	0.	0.
-13.0	786.	798.	769.	731.	673.	607.	536.	464.	391.	327.	253.	184.	132.	89.	58.	37.	23.	16.	9.	5.	2.	0.	0.
-15.0	642.	648.	633.	598.	554.	505.	448.	391.	330.	278.	217.	159.	117.	81.	53.	34.	22.	15.	9.	5.	2.	0.	0.
-17.0	521.	526.	515.	486.	455.	416.	370.	325.	276.	234.	185.	138.	103.	72.	49.	32.	21.	15.	9.	4.	2.	0.	0.
-19.5	389.	392.	384.	364.	342.	313.	281.	248.	216.	185.	149.	114.	86.	62.	43.	29.	20.	14.	9.	4.	2.	0.	0.
-22.5	269.	270.	264.	251.	239.	219.	199.	178.	158.	137.	114.	89.	69.	51.	36.	26.	18.	13.	8.	4.	2.	0.	0.
-25.5	184.	182.	180.	173.	164.	151.	139.	127.	113.	100.	85.	68.	54.	41.	31.	23.	16.	12.	8.	4.	2.	0.	0.
-29.0	117.	115.	114.	112.	106.	100.	92.	85.	76.	69.	60.	50.	41.	33.	25.	19.	14.	11.	7.	4.	1.	0.	0.
-33.0	70.	70.	69.	68.	66.	62.	58.	55.	51.	47.	41.	36.	31.	25.	20.	16.	12.	10.	6.	3.	1.	0.	0.
-37.5	43.	43.	43.	42.	41.	39.	37.	35.	33.	31.	28.	25.	22.	19.	16.	13.	10.	8.	5.	3.	1.	0.	0.
-42.5	29.	29.	28.	28.	27.	26.	25.	24.	23.	21.	20.	18.	16.	15.	13.	11.	9.	7.	5.	2.	1.	0.	0.
-47.5	22.	22.	21.	21.	21.	20.	19.	18.	17.	16.	15.	14.	13.	11.	10.	8.	7.	6.	4.	2.	1.	0.	0.
-55.0	15.	15.	15.	15.	14.	14.	13.	12.	11.	11.	10.	9.	8.	8.	7.	6.	5.	4.	3.	2.	1.	0.	0.
-65.0	7.	7.	7.	7.	7.	7.	6.	6.	6.	5.	5.	5.	4.	4.	4.	3.	3.	2.	2.	1.	0.	0.	0.
-75.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	0.	0.	0.	0.
-85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

BEAM EDGE = 735. CP = 50% OF MAX
FIELD EDGE = 147. CP = 10% OF MAX

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



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PAGE: 3 OF 7

CANDELA TABULATION - FIELD ONLY

AVERAGE OF RIGHT AND LEFT SIDES

	0.0	1.0	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.5	22.5	25.5	29.0	33.0	37.5	42.5	47.5	55.0	65.0	75.0	85.0	90.0
90.0																							
85.0																							
75.0																							
65.0																							
55.0																							
47.5																							
42.5																							
37.5																							
33.0																							
29.0																							
25.5	204.	208.	202.	196.	187.	175.	161.																
22.5	305.	302.	296.	283.	268.	249.	227.	203.	179.	155.													
19.5	439.	434.	424.	402.	378.	347.	313.	276.	239.	205.	166.												
17.0	567.	575.	565.	533.	496.	452.	402.	352.	302.	257.	204.	153.											
15.0	705.	715.	698.	654.	605.	547.	484.	421.	359.	303.	238.	176.											
13.0	843.	846.	823.	779.	718.	648.	571.	492.	417.	350.	273.	199.											
11.0	986.	984.	958.	915.	843.	758.	665.	569.	480.	398.	308.	221.	158.										
9.0	1142.	1128.	1097.	1042.	968.	868.	758.	644.	542.	445.	342.	243.	171.										
7.0	1262.	1253.	1219.	1156.	1071.	961.	840.	712.	597.	488.	373.	263.	183.										
5.0	1365.	1353.	1318.	1249.	1155.	1035.	907.	769.	642.	524.	398.	278.	193.										
3.0	1432.	1420.	1387.	1317.	1208.	1082.	947.	803.	669.	546.	412.	288.	199.										
1.0	1464.	1456.	1421.	1347.	1238.	1107.	965.	819.	681.	556.	419.	294.	202.										
0.0	1469.	1465.	1427.	1353.	1240.	1110.	967.	821.	682.	558.	420.	294.	203.										
-1.0	1463.	1460.	1423.	1347.	1235.	1104.	962.	817.	678.	554.	419.	293.	202.										
-3.0	1425.	1415.	1380.	1303.	1194.	1066.	926.	787.	653.	534.	406.	286.	197.										
-5.0	1345.	1335.	1299.	1227.	1123.	1000.	870.	739.	615.	502.	383.	271.	189.										
-7.0	1234.	1224.	1189.	1123.	1027.	916.	798.	679.	567.	465.	357.	253.	177.										
-9.0	1101.	1087.	1058.	999.	916.	819.	716.	612.	511.	421.	324.	232.	163.										
-11.0	958.	953.	918.	869.	799.	716.	628.	539.	452.	375.	289.	208.	148.										
-13.0	786.	798.	769.	731.	673.	607.	536.	464.	391.	327.	253.	184.											
-15.0	642.	648.	633.	598.	554.	505.	448.	391.	330.	278.	217.	159.											
-17.0	521.	526.	515.	486.	455.	416.	370.	325.	276.	234.	185.												
-19.5	389.	392.	384.	364.	342.	313.	281.	248.	216.	185.	149.												
-22.5	269.	270.	264.	251.	239.	219.	199.	178.	158.														
-25.5	184.	182.	180.	173.	164.	151.																	
-29.0																							
-33.0																							
-37.5																							
-42.5																							
-47.5																							
-55.0																							
-65.0																							
-75.0																							
-85.0																							
-90.0																							

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PAGE: 4 OF 7

LUMEN TABULATION

AVERAGE OF RIGHT AND LEFT SIDES

	0	2	4	6	8	10	12	14	16	18	21	24	27	31	35	40	45	50	60	70	80	90	TOTAL
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
60	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	1.2
50	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	1.0
45	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	1.4
40	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	2.1
35	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	2.5
31	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	3.7
27	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	3.9
24	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	5.3
21	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	7.1
18	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	6.0
16	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	7.2
14	1.0	1.0	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	8.4
12	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	9.7
10	1.4	1.3	1.3	1.2	1.0	0.9	0.8	0.6	0.5	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	10.9
8	1.5	1.5	1.4	1.3	1.2	1.0	0.8	0.7	0.6	0.6	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	12.0
6	1.6	1.6	1.5	1.4	1.2	1.1	0.9	0.8	0.6	0.7	0.5	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	12.9
4	1.7	1.7	1.6	1.5	1.3	1.1	1.0	0.8	0.6	0.7	0.5	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	13.5
2	1.8	1.7	1.6	1.5	1.3	1.2	1.0	0.8	0.6	0.7	0.5	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	13.8
0	1.8	1.7	1.6	1.5	1.3	1.2	1.0	0.8	0.6	0.7	0.5	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	13.8
-2	1.7	1.7	1.6	1.4	1.3	1.1	0.9	0.8	0.6	0.7	0.5	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	13.3
-4	1.6	1.6	1.5	1.4	1.2	1.0	0.9	0.7	0.6	0.7	0.5	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	12.6
-6	1.5	1.4	1.4	1.2	1.1	1.0	0.8	0.7	0.5	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	11.6
-8	1.3	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.5	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	10.4
-10	1.2	1.1	1.1	1.0	0.9	0.8	0.6	0.5	0.4	0.5	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	9.2
-12	1.0	0.9	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	7.9
-14	0.8	0.8	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	6.6
-16	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	5.5
-18	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	6.4
-21	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	4.7
-24	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	3.4
-27	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	3.1
-31	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	2.1
-35	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.8
-40	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.3
-45	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.0
-50	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	1.4
-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-90	28.4	27.7	26.2	24.2	21.8	19.2	16.5	13.9	11.6	13.5	9.8	7.1	6.5	4.3	3.5	2.3	1.6	1.7	0.6	0.1	0.0	0.0	240.5

LUMEN TOTAL THIS PAGE = 240.5



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PAGE: 5 OF 7

LUMEN TABULATION - FIELD ONLY

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	0	2	4	6	8	10	12	14	16	18	21	24	27	31	35	40	45	50	60	70	80	90	TOTAL
90																							0.0
80																							0.0
70																							0.0
60																							0.0
50																							0.0
45																							0.0
40																							0.0
35																							0.0
31																							0.0
27																							0.0
24	0.4	0.4	0.4	0.3	0.3	0.3																	2.0
21	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3														3.9
18	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.4	0.4												5.9
16	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.3												5.3
14	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.3												6.5
12	1.0	1.0	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.5	0.3												7.6
10	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.3											9.1
8	1.4	1.3	1.3	1.2	1.0	0.9	0.8	0.6	0.5	0.6	0.4	0.3											10.3
6	1.5	1.5	1.4	1.3	1.2	1.0	0.8	0.7	0.6	0.6	0.4	0.3											11.4
4	1.6	1.6	1.5	1.4	1.2	1.1	0.9	0.8	0.6	0.7	0.5	0.3											12.2
2	1.7	1.7	1.6	1.5	1.3	1.1	1.0	0.8	0.6	0.7	0.5	0.3											12.8
0	1.8	1.7	1.6	1.5	1.3	1.2	1.0	0.8	0.6	0.7	0.5	0.3											13.1
-2	1.8	1.7	1.6	1.5	1.3	1.2	1.0	0.8	0.6	0.7	0.5	0.3											13.1
-4	1.7	1.7	1.6	1.4	1.3	1.1	0.9	0.8	0.6	0.7	0.5	0.3											12.7
-6	1.6	1.6	1.5	1.4	1.2	1.0	0.9	0.7	0.6	0.7	0.5	0.3											11.9
-8	1.5	1.4	1.4	1.2	1.1	1.0	0.8	0.7	0.5	0.6	0.4	0.3											10.9
-10	1.3	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.5	0.6	0.4	0.3											9.8
-12	1.2	1.1	1.1	1.0	0.9	0.8	0.6	0.5	0.4	0.5	0.4	0.2											8.6
-14	1.0	0.9	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.4	0.3												7.1
-16	0.8	0.8	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.4	0.3												5.9
-18	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.3													4.7
-21	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.4													5.3
-24	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3															3.2
-27	0.3	0.3	0.3	0.3	0.3																		1.5
-31																							0.0
-35																							0.0
-40																							0.0
-45																							0.0
-50																							0.0
-60																							0.0
-70																							0.0
-80																							0.0
-90																							0.0
	26.6	25.9	24.5	22.5	20.2	17.4	14.6	12.2	9.8	10.8	6.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	194.9

LUMEN TOTAL THIS PAGE = 194.9



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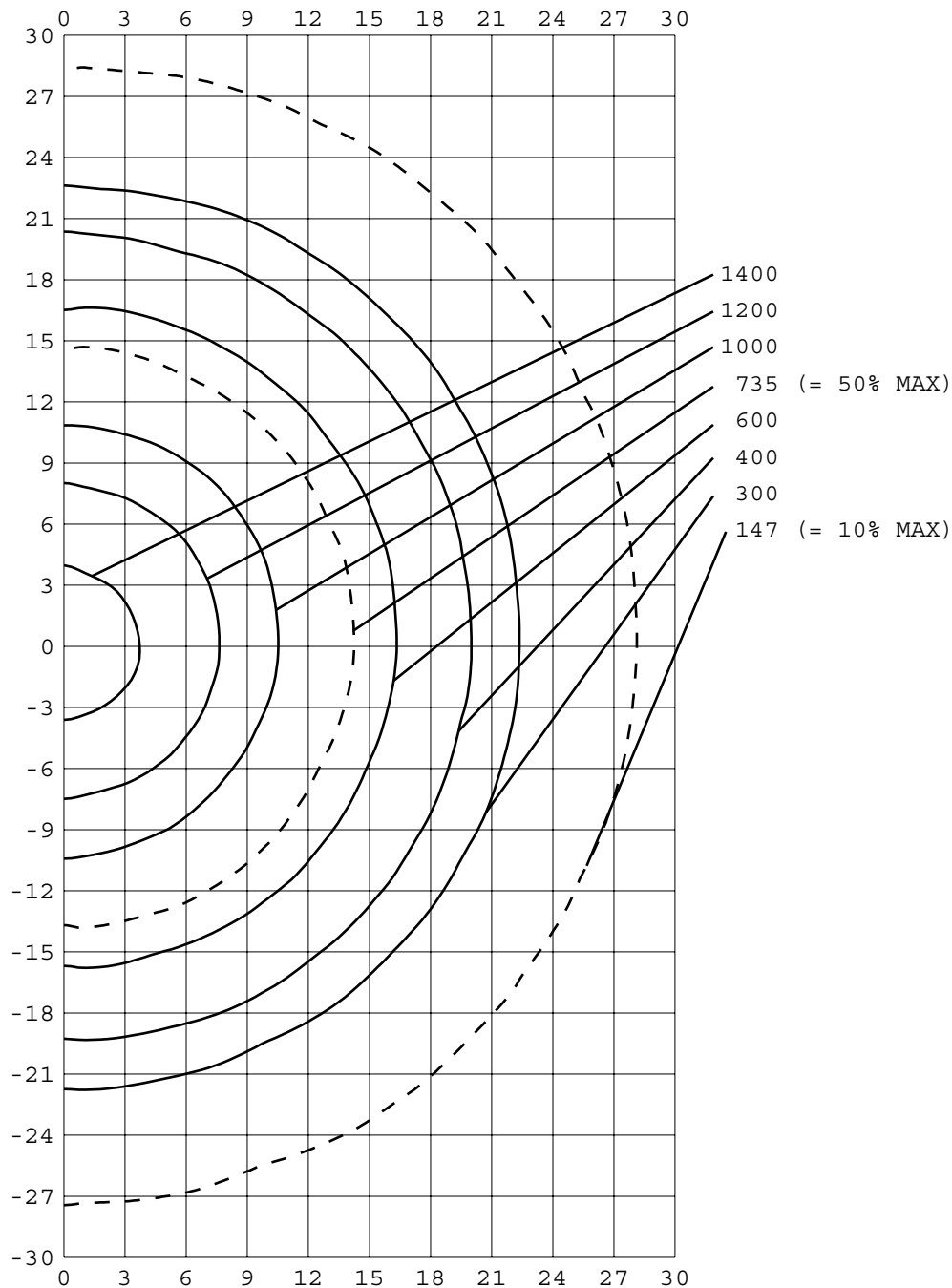
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