

REPORT NUMBER: ITL86242

PAGE: 1 OF 7

ISSUE DATE: 12/31/15

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: MM-LED-e72-ASY-12-C, RM-MM-LED-e72-ASY-12-C, SN-MM-LED-e72-ASY-12-C,
ST-MM-LED-e72-ASY-12-C, SF-MM-LED-e72-ASY-12-C, TF-MM-LED-e72-ASY-12-C,
YM-LED-e72-ASY-12-C, OM-LED-e72-ASY-12-C, SM-MM-LED-e72-ASY-12,
PM-MM-LED-e72-ASY-12-C, WM-MM-LED-e72-ASY-12-C, UL-MM-LED-e72-ASY-12,
DM-LED-e72-ASY-12

LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, 1 BLACK CIRCUIT BOARD WITH ONE LED,
CLEAR PLASTIC OPTIC IN MOLDED WHITE PLASTIC FRAME, CLEAR MICRO-PRISMATIC FLAT
GLASS LENS IN MACHINED BLACK PAINTED CYLINDRICAL METAL FRAME WITH UNFINISHED
INTERIOR. LENS PRISMS OUT. LUMINAIRE AIMED AT THE HORIZON FOR THIS TEST.

LAMP: ONE WHITE LIGHT EMITTING DIODE (LED), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 12.0 VOLTS, 2.56 WATTS, 0.332 AMPS

LED DRIVER: B-K LIGHTING 518801/400187-F

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

TEST PROCEDURE: IESNA LM-79-08

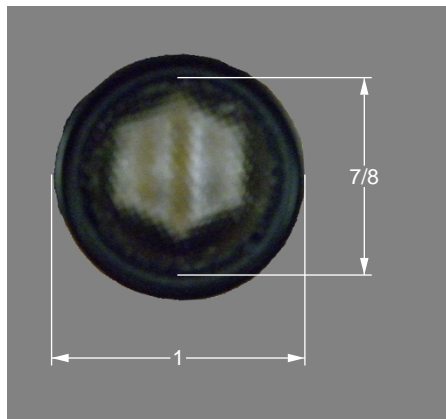
TEST DISTANCE = 20.0 FEET

FLOODLIGHT CHARACTERISTICS

AXIAL CANDLEPOWER

IES TYPE 4H X 3V
MAXIMUM CANDLEPOWER 721. AT 0.0 H, 1.0 V
HORIZONTAL BEAM ANGLE (50%) 31.0 deg
VERTICAL BEAM ANGLE (50%) 17.5 deg
HORIZONTAL FIELD ANGLE (10%) 64.7 deg
VERTICAL FIELD ANGLE (10%) 38.0 deg
BEAM LUMENS (% FIXTURE) 72. (40.2 %)
FIELD LUMENS (% FIXTURE) 142. (79.4 %)
TOTAL LUMENS (% FIXTURE) 178. (100.0 %)
EFFICACY = 69.5 lm/W

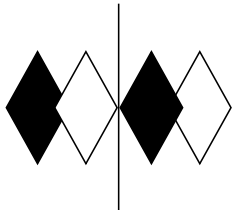
DEG	HORIZ.	DEG	VERT.
90.0	0.	90.0	0.
85.0	0.	85.0	0.
75.0	0.	75.0	0.
65.0	1.	65.0	1.
55.0	3.	55.0	2.
47.5	8.	47.5	5.
42.5	18.	42.5	7.
37.5	37.	37.5	11.
33.0	65.	33.0	16.
29.0	103.	29.0	25.
25.5	149.	25.5	37.
22.5	196.	22.5	50.
19.5	253.	19.5	69.
17.0	314.	17.0	97.
15.0	373.	15.0	136.
13.0	438.	13.0	198.
11.0	501.	11.0	285.
9.0	564.	9.0	392.
7.0	620.	7.0	507.
5.0	664.	5.0	616.
3.0	694.	3.0	692.
1.0	711.	1.0	721.
0.0	714.	0.0	714.
-1.0	711.	-1.0	694.
-3.0	694.	-3.0	617.
-5.0	664.	-5.0	511.
-7.0	620.	-7.0	404.
-9.0	564.	-9.0	307.
-11.0	501.	-11.0	230.
-13.0	438.	-13.0	170.
-15.0	373.	-15.0	120.
-17.0	314.	-17.0	90.
-19.5	253.	-19.5	64.
-22.5	196.	-22.5	45.
-25.5	149.	-25.5	34.
-29.0	103.	-29.0	24.
-33.0	65.	-33.0	16.
-37.5	37.	-37.5	11.
-42.5	18.	-42.5	7.
-47.5	8.	-47.5	5.
-55.0	3.	-55.0	3.
-65.0	1.	-65.0	1.
-75.0	0.	-75.0	0.
-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.



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



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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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
65.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.
55.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.
47.5	5.	5.	5.	4.	4.	4.	4.	4.	4.	3.	3.	3.	3.	3.	2.	2.	2.	1.	1.	0.	0.	0.	0.
42.5	7.	7.	7.	7.	6.	6.	6.	6.	5.	5.	5.	4.	4.	4.	3.	3.	2.	2.	1.	0.	0.	0.	0.
37.5	11.	11.	10.	10.	10.	9.	9.	8.	8.	8.	7.	6.	6.	5.	4.	3.	3.	2.	1.	1.	0.	0.	0.
33.0	16.	16.	16.	16.	15.	14.	13.	13.	12.	11.	10.	9.	8.	7.	6.	4.	3.	3.	2.	1.	0.	0.	0.
29.0	25.	25.	25.	24.	23.	22.	20.	19.	17.	16.	14.	13.	11.	9.	7.	6.	4.	3.	2.	1.	0.	0.	0.
25.5	37.	36.	36.	35.	33.	31.	29.	27.	25.	23.	20.	17.	15.	12.	10.	8.	6.	4.	2.	1.	0.	0.	0.
22.5	50.	50.	49.	47.	45.	42.	39.	36.	34.	31.	27.	24.	20.	17.	13.	10.	7.	4.	2.	1.	0.	0.	0.
19.5	69.	69.	68.	66.	63.	59.	55.	52.	48.	44.	39.	34.	29.	24.	18.	13.	8.	5.	3.	1.	0.	0.	0.
17.0	97.	98.	97.	95.	91.	87.	81.	75.	69.	64.	56.	49.	41.	33.	24.	17.	10.	6.	3.	1.	0.	0.	0.
15.0	136.	139.	138.	136.	131.	124.	115.	107.	97.	89.	77.	65.	54.	42.	31.	20.	11.	6.	3.	1.	0.	0.	0.
13.0	198.	199.	197.	199.	193.	181.	167.	153.	137.	122.	106.	87.	70.	53.	38.	24.	13.	6.	3.	1.	0.	0.	0.
11.0	285.	287.	287.	282.	277.	258.	236.	210.	187.	163.	138.	113.	90.	65.	45.	28.	14.	7.	3.	1.	0.	0.	0.
9.0	392.	398.	397.	388.	370.	343.	315.	274.	238.	207.	174.	140.	109.	79.	52.	31.	15.	7.	3.	1.	0.	0.	0.
7.0	507.	515.	513.	496.	469.	433.	388.	339.	291.	250.	208.	164.	126.	90.	58.	34.	16.	7.	3.	1.	0.	0.	0.
5.0	616.	620.	612.	589.	553.	508.	457.	395.	336.	285.	235.	182.	138.	98.	62.	36.	17.	8.	3.	1.	0.	0.	0.
3.0	692.	692.	678.	651.	611.	557.	498.	431.	367.	309.	250.	194.	146.	102.	64.	37.	17.	8.	3.	1.	0.	0.	0.
1.0	721.	718.	701.	671.	628.	571.	508.	442.	376.	316.	255.	198.	149.	103.	66.	37.	18.	8.	3.	1.	0.	0.	0.
0.0	714.	711.	694.	664.	620.	564.	501.	438.	373.	314.	253.	196.	149.	103.	65.	37.	18.	8.	3.	1.	0.	0.	0.
-1.0	694.	690.	674.	645.	602.	549.	488.	429.	366.	309.	249.	193.	147.	102.	65.	37.	18.	8.	3.	1.	0.	0.	0.
-3.0	617.	614.	605.	583.	543.	498.	448.	396.	339.	288.	234.	182.	140.	98.	62.	36.	17.	8.	3.	1.	0.	0.	0.
-5.0	511.	508.	504.	493.	462.	429.	391.	348.	299.	257.	208.	165.	129.	91.	59.	35.	17.	8.	3.	1.	0.	0.	0.
-7.0	404.	402.	398.	386.	372.	349.	322.	289.	252.	218.	178.	144.	115.	82.	54.	33.	16.	8.	3.	1.	0.	0.	0.
-9.0	307.	305.	302.	298.	286.	271.	253.	230.	202.	178.	149.	122.	99.	72.	49.	30.	15.	7.	3.	1.	0.	0.	0.
-11.0	230.	227.	224.	221.	212.	203.	191.	176.	157.	139.	120.	99.	81.	62.	42.	26.	14.	7.	3.	1.	0.	0.	0.
-13.0	170.	167.	165.	162.	157.	149.	140.	130.	118.	106.	93.	78.	65.	51.	36.	23.	13.	7.	3.	1.	0.	0.	0.
-15.0	120.	122.	120.	118.	115.	109.	101.	95.	87.	80.	71.	60.	51.	40.	29.	19.	11.	6.	3.	1.	0.	0.	0.
-17.0	90.	90.	90.	87.	85.	80.	74.	70.	65.	60.	53.	46.	39.	32.	24.	16.	10.	6.	3.	1.	0.	0.	0.
-19.5	64.	64.	64.	62.	59.	56.	52.	49.	46.	43.	38.	33.	29.	24.	18.	13.	8.	5.	3.	1.	0.	0.	0.
-22.5	45.	45.	45.	44.	42.	40.	37.	35.	33.	31.	28.	24.	21.	17.	14.	10.	7.	5.	3.	1.	0.	0.	0.
-25.5	34.	34.	34.	33.	31.	29.	27.	26.	24.	23.	21.	18.	16.	13.	11.	8.	6.	4.	2.	1.	0.	0.	0.
-29.0	24.	24.	24.	23.	22.	21.	20.	18.	18.	16.	15.	14.	12.	10.	8.	6.	5.	4.	2.	1.	0.	0.	0.
-33.0	16.	16.	16.	15.	15.	14.	14.	13.	12.	12.	11.	10.	9.	8.	6.	5.	4.	3.	2.	1.	0.	0.	0.
-37.5	11.	11.	11.	11.	10.	10.	10.	9.	9.	8.	8.	7.	7.	6.	5.	4.	3.	2.	2.	1.	0.	0.	0.
-42.5	7.	7.	7.	7.	7.	7.	7.	6.	6.	6.	6.	5.	5.	4.	4.	3.	2.	2.	1.	0.	0.	0.	0.
-47.5	5.	5.	5.	5.	5.	5.	5.	5.	4.	4.	4.	3.	3.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.
-55.0	3.	3.	3.	3.	3.	3.	3.	3.	3.	2.	2.	2.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.
-65.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.
-75.0	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.
-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 = 361. CP = 50% OF MAX
FIELD EDGE = 72. CP = 10% OF MAX

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



INDEPENDENT TESTING LABORATORIES, INC.
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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																							
22.5																							
19.5																							
17.0	97.	98.	97.	95.	91.	87.	81.	75.															
15.0	136.	139.	138.	136.	131.	124.	115.	107.	97.	89.	77.												
13.0	198.	199.	197.	199.	193.	181.	167.	153.	137.	122.	106.	87.											
11.0	285.	287.	287.	282.	277.	258.	236.	210.	187.	163.	138.	113.	90.										
9.0	392.	398.	397.	388.	370.	343.	315.	274.	238.	207.	174.	140.	109.	79.									
7.0	507.	515.	513.	496.	469.	433.	388.	339.	291.	250.	208.	164.	126.	90.									
5.0	616.	620.	612.	589.	553.	508.	457.	395.	336.	285.	235.	182.	138.	98.									
3.0	692.	692.	678.	651.	611.	557.	498.	431.	367.	309.	250.	194.	146.	102.									
1.0	721.	718.	701.	671.	628.	571.	508.	442.	376.	316.	255.	198.	149.	103.									
0.0	714.	711.	694.	664.	620.	564.	501.	438.	373.	314.	253.	196.	149.	103.									
-1.0	694.	690.	674.	645.	602.	549.	488.	429.	366.	309.	249.	193.	147.	102.									
-3.0	617.	614.	605.	583.	543.	498.	448.	396.	339.	288.	234.	182.	140.	98.									
-5.0	511.	508.	504.	493.	462.	429.	391.	348.	299.	257.	208.	165.	129.	91.									
-7.0	404.	402.	398.	386.	372.	349.	322.	289.	252.	218.	178.	144.	115.	82.									
-9.0	307.	305.	302.	298.	286.	271.	253.	230.	202.	178.	149.	122.	99.										
-11.0	230.	227.	224.	221.	212.	203.	191.	176.	157.	139.	120.	99.	81.										
-13.0	170.	167.	165.	162.	157.	149.	140.	130.	118.	106.	93.	78.											
-15.0	120.	122.	120.	118.	115.	109.	101.	95.	87.	80.													
-17.0	90.	90.	90.	87.	85.	80.	74.																
-19.5																							
-22.5																							
-25.5																							
-29.0																							
-33.0																							
-37.5																							
-42.5																							
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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	0.0
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	0.1
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	0.2
50	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
45	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
40	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	0.4
35	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	0.5
31	0.1	0.1	0.1	0.1	0.1	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
27	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
24	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	0.0	0.0	0.0	0.0	0.0	0.0	1.0
21	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	0.0	0.0	0.0	1.4
18	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	0.0	0.0	0.0	1.4
16	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.6
12	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.6
10	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	0.0	0.0	0.0	0.0	0.0	0.0	4.6
8	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.7
6	0.8	0.7	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	0.0	0.0	0.0	0.0	0.0	0.0	6.7
4	0.8	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	0.0	0.0	0.0	0.0	0.0	0.0	7.3
2	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.5
0	0.8	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	0.0	0.0	0.0	0.0	0.0	0.0	7.2
-2	0.7	0.7	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	0.0	0.0	0.0	0.0	0.0	0.0	6.6
-4	0.6	0.6	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	0.0	0.0	0.0	0.0	0.0	0.0	5.8
-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	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.8
-8	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	0.0	0.0	0.0	0.0	0.0	0.0	3.8
-10	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	0.0	0.0	0.0	0.0	0.0	0.0	2.9
-12	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.2
-14	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	0.0	0.0	1.7
-16	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	0.0	0.0	0.0	1.3
-18	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	0.0	0.0	1.4
-21	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	0.0	0.0	0.0	1.0
-24	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
-27	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	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
-31	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	0.5
-35	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	0.5
-40	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
-45	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
-50	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
-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	0.1
-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	0.0
-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	0.0
-90	9.2	9.1	8.8	8.3	7.7	6.9	6.2	5.3	4.6	5.7	4.6	3.6	3.4	2.3	1.7	0.9	0.5	0.4	0.1	0.0	0.0	0.0	89.2

LUMEN TOTAL THIS PAGE = 89.2



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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																						0.0
21																						0.0
18																						0.0
16	0.1	0.1	0.1	0.1	0.1	0.1	0.1															0.8
14	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1												1.4
12	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1											2.2
10	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1										3.2
8	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									4.4
6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.3	0.4	0.3	0.2	0.2									5.5
4	0.8	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.4	0.3	0.2	0.2									6.4
2	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.2	0.2									7.0
0	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.2	0.2									7.2
-2	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.2	0.2									6.9
-4	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.4	0.3	0.2	0.2									6.3
-6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.3	0.2	0.2									5.5
-8	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2								4.5
-10	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2										3.4
-12	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1										2.6
-14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1											1.8
-16	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1														1.1
-18	0.1	0.1	0.1	0.1	0.1	0.1																0.6
-21																						0.0
-24																						0.0
-27																						0.0
-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	8.3	8.2	7.9	7.4	6.9	6.2	5.4	4.5	3.9	4.6	3.5	2.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.9

LUMEN TOTAL THIS PAGE = 70.9



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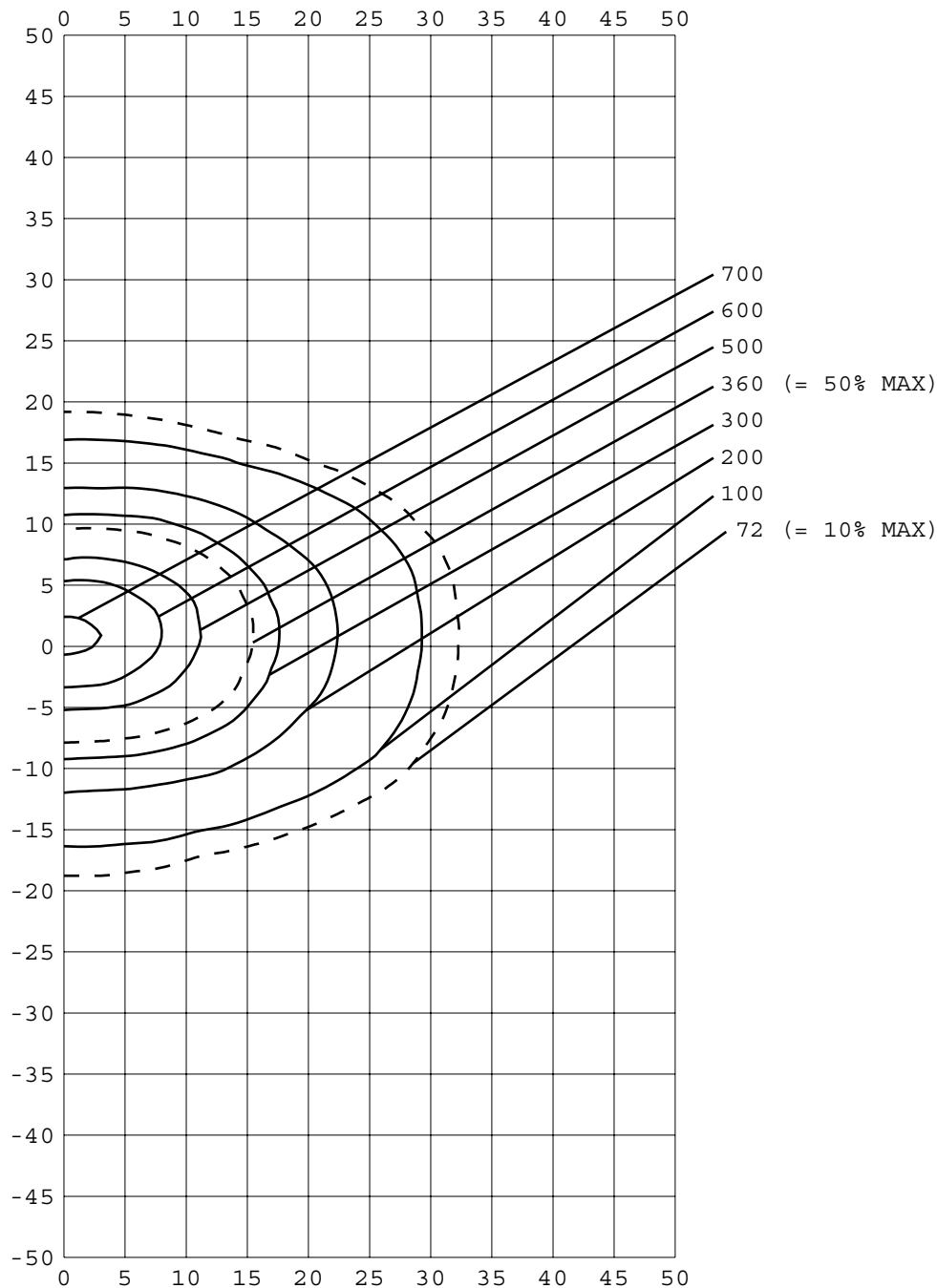
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