

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P271571

Luminaire Tested: **ISS-AF-450-LED-E1-RW-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29765)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-450-LED-E1-RW-7027-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I, WITH UPLIGHT  
GLOW  
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3995.8 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G1

Input Watts (W): 42.01  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

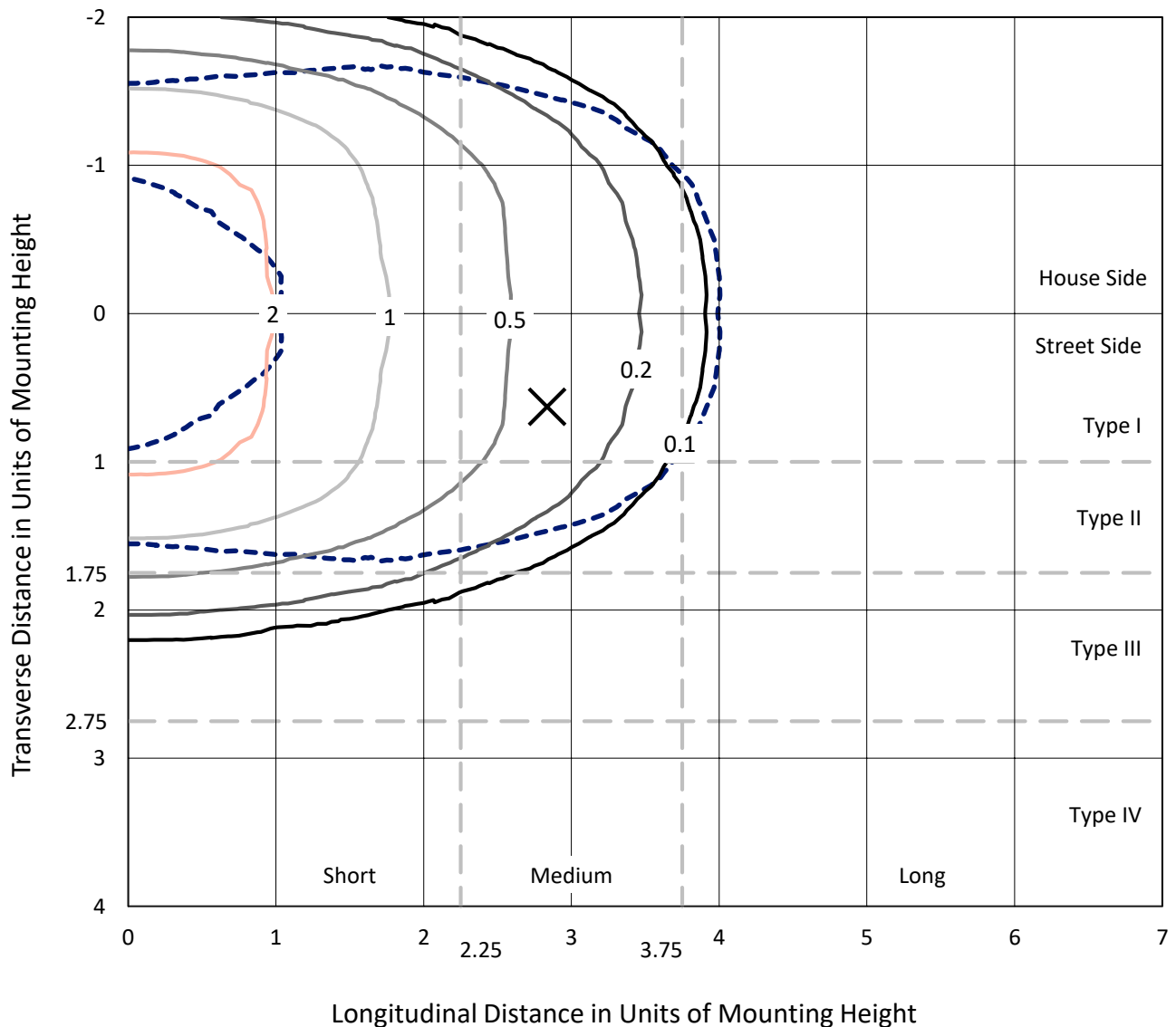


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

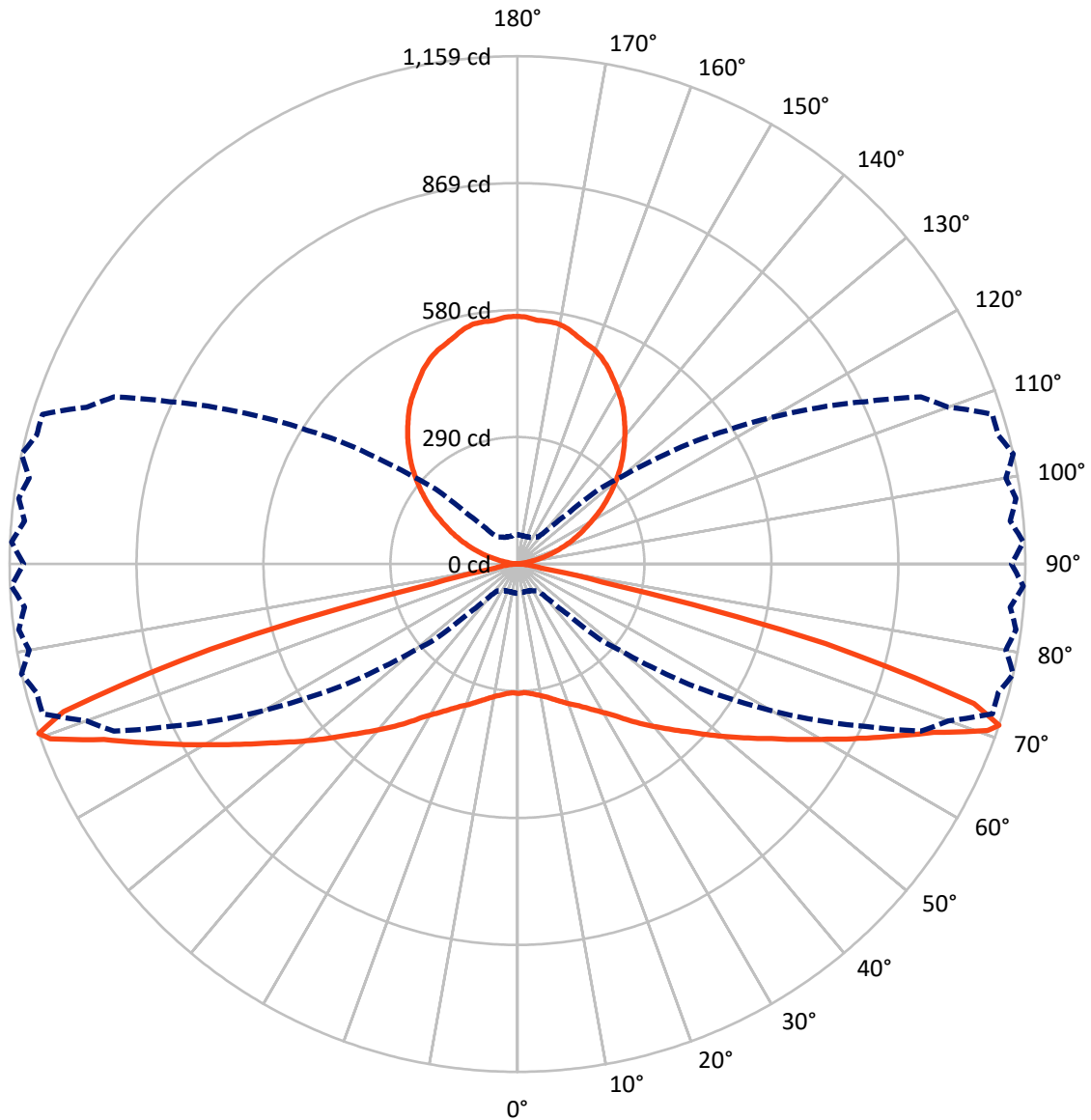


Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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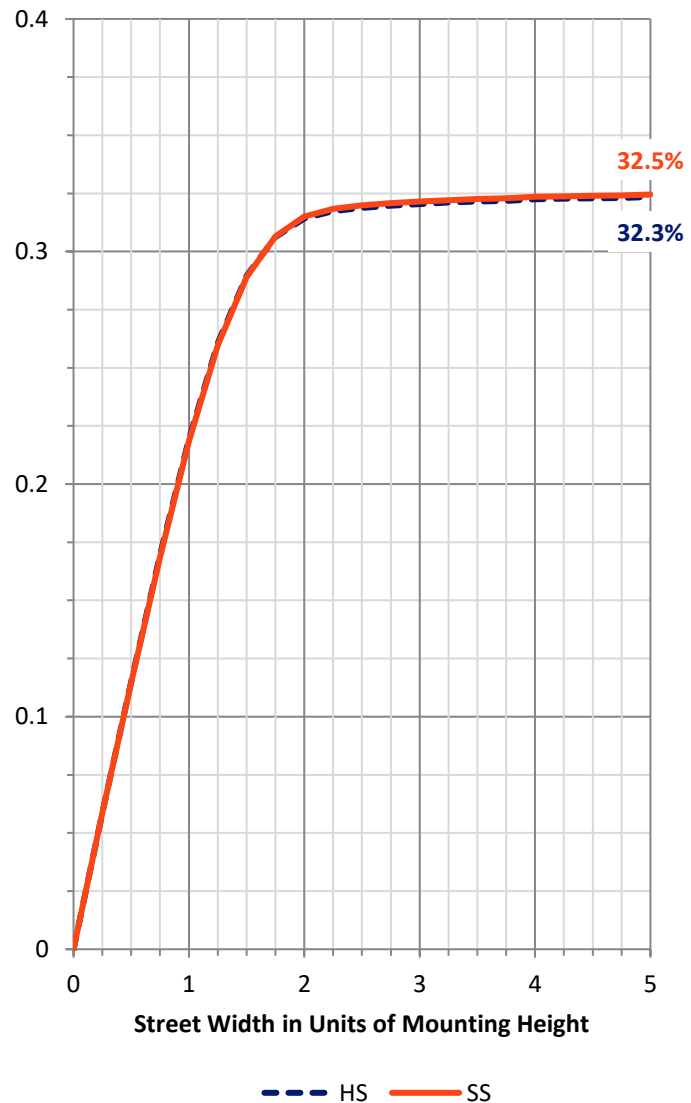
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1298.0	699.9	1997.9
	% Fixture	32.5	17.5	50.0
<b>Street Side</b>	Lumens	1298.0	699.9	1997.9
	% Fixture	32.5	17.5	50.0
<b>Total</b>	Lumens	2596.0	1399.8	3995.8
	% Fixture	65.0	35.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.6	0.7
10°-20°	89.2	2.2
20°-30°	167.0	4.2
30°-40°	290.7	7.3
40°-50°	474.3	11.9
50°-60°	654.5	16.4
60°-70°	620.8	15.5
70°-80°	255.6	6.4
80°-90°	15.4	0.4
90°-100°	4.7	0.1
100°-110°	67.7	1.7
110°-120°	150.2	3.8
120°-130°	219.7	5.5
130°-140°	260.7	6.5
140°-150°	264.3	6.6
150°-160°	226.8	5.7
160°-170°	152.2	3.8
170°-180°	53.3	1.3
0°-90°	2596.0	65.0
0°-180°	3995.8	100.0



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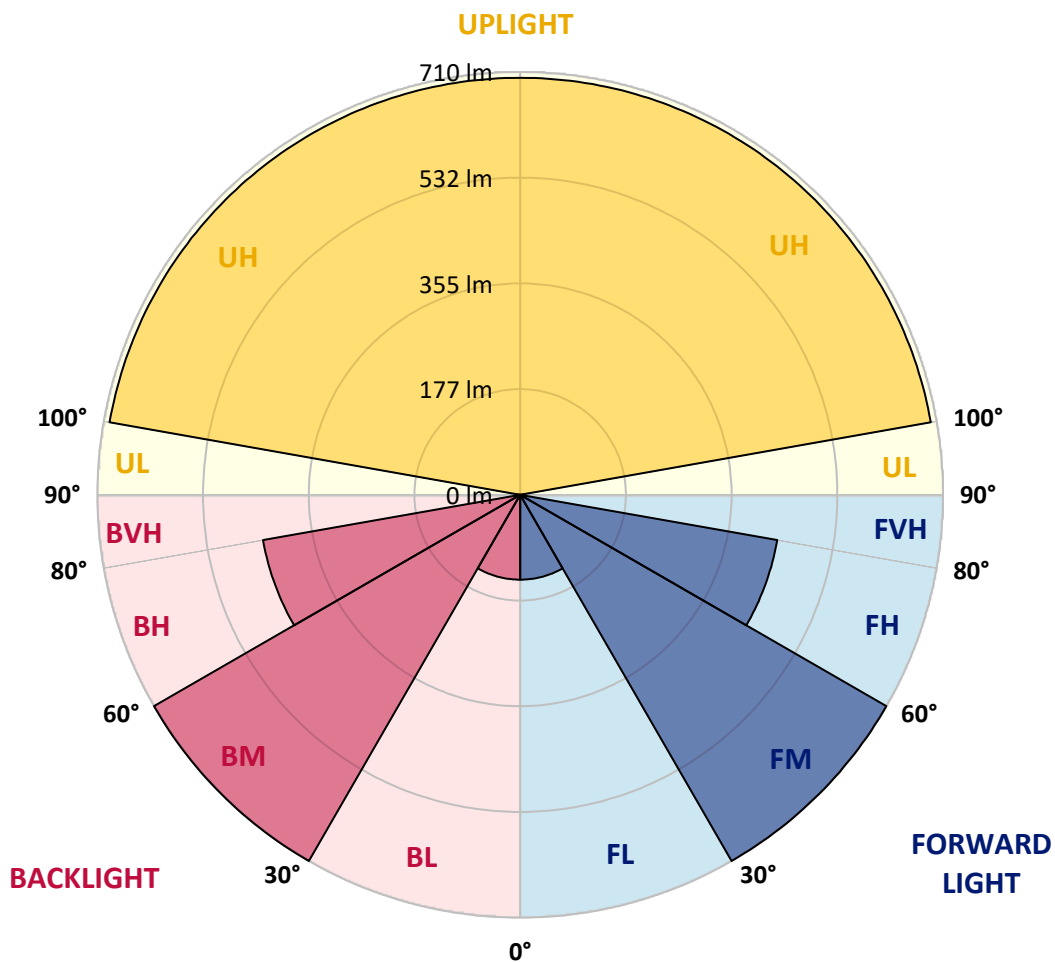
CATALOG NUMBER: ISS-AF-450-LED-E1-RW-7027-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.4	3.6			
FM	(30°-60°)	709.7	17.8			
FH	(60°-80°)	438.2	11.0			G0/660
FVH	(80°-90°)	7.7	0.2			G0/10
BL	(0°-30°)	142.4	3.6	B1/500		
BM	(30°-60°)	709.7	17.8	B1/1000		
BH	(60°-80°)	438.2	11.0	B1/500		G1/500
BVH	(80°-90°)	7.7	0.2			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	699.9	17.5		U4/1000	

**BUG Rating: B1-U5-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	295.6	295.6	295.6	295.6	295.6	295.6	295.6	295.6	295.6	295.6	295.6
2.5°	294.7	293.8	294.7	294.7	295.6	295.6	295.6	295.6	294.7	296.5	296.5
5°	294.7	294.7	295.6	295.6	297.2	299.0	296.5	297.2	298.1	297.2	299.0
7.5°	294.7	294.7	294.7	296.5	299.0	300.8	299.0	299.9	301.7	301.7	303.4
10°	292.2	291.3	293.0	296.5	300.8	303.4	302.5	306.0	305.1	306.0	307.6
12.5°	287.9	287.9	291.3	296.5	304.2	306.0	306.8	308.5	311.0	310.3	312.8
15°	288.7	289.6	293.0	299.9	309.4	311.0	311.9	311.9	316.2	314.5	319.7
17.5°	294.7	295.6	299.0	306.0	317.1	317.1	317.9	319.7	325.6	322.2	329.0
20°	304.2	305.1	308.5	316.2	326.5	325.6	327.4	329.0	336.9	333.5	340.3
22.5°	315.3	317.1	321.3	329.9	341.2	336.0	339.4	342.8	350.6	344.6	354.0
25°	330.8	333.5	337.8	347.1	359.2	353.1	356.5	359.2	367.8	359.2	368.7
27.5°	353.1	354.9	358.3	368.7	378.9	374.6	376.4	378.1	388.3	378.9	389.2
30°	379.8	382.4	385.8	395.3	405.6	398.7	402.1	403.9	412.5	403.0	411.6
32.5°	413.3	415.9	420.1	428.9	437.4	427.1	428.0	430.5	439.1	429.7	439.1
35°	452.8	454.6	460.7	470.9	476.9	460.7	461.5	461.5	472.6	459.8	470.0
37.5°	494.1	495.9	502.7	513.0	519.8	501.8	501.8	502.7	513.0	498.4	507.8
40°	537.1	542.3	549.9	560.3	565.4	544.8	546.5	545.7	557.7	540.5	549.9
42.5°	580.0	584.3	595.5	607.5	613.5	592.9	593.8	591.3	603.2	585.2	592.9
45°	617.0	620.4	634.1	651.3	660.8	639.3	639.3	639.3	651.3	629.0	638.4
47.5°	647.0	649.7	664.3	689.2	704.6	683.1	684.9	681.5	699.5	672.0	684.9
50°	668.6	669.3	688.3	716.7	743.3	723.6	726.1	727.9	745.1	721.0	732.1
52.5°	675.4	677.1	698.6	732.9	771.6	758.8	768.2	771.6	787.2	761.3	776.9
55°	651.3	655.7	688.3	739.0	791.5	787.2	798.3	805.2	824.9	803.4	819.7
57.5°	570.5	575.7	621.3	704.6	795.7	802.5	818.1	829.2	857.6	844.7	862.7
60°	455.4	459.8	506.1	606.6	741.6	783.7	819.0	850.8	879.9	882.6	905.7
62.5°	312.8	318.8	363.5	459.8	623.9	679.7	730.4	782.9	831.8	891.1	921.2
65°	152.9	156.3	194.2	287.0	458.0	529.3	588.6	662.5	708.0	793.1	842.1
67.5°	84.2	84.2	90.2	119.5	244.9	315.3	378.9	471.8	518.1	623.1	685.8
70°	70.4	70.4	68.7	73.0	92.9	110.0	142.7	195.9	260.4	366.1	422.8
71°	67.0	66.1	65.3	67.0	74.8	78.2	92.0	120.4	163.2	252.6	308.5
72.5°	62.7	61.1	58.4	59.3	63.6	63.6	66.1	70.4	86.8	118.6	159.0
75°	54.2	52.4	49.9	49.9	50.8	51.6	52.4	54.2	55.0	56.8	63.6
77.5°	44.6	43.0	40.3	40.3	39.5	40.3	42.1	43.0	41.2	44.6	45.5
80°	34.3	31.8	30.9	30.9	30.0	29.3	29.3	29.3	30.0	31.8	32.7
82.5°	21.5	19.8	20.6	19.8	19.0	19.0	19.0	19.0	19.8	19.8	21.5
85°	10.3	10.3	11.2	10.3	8.6	8.6	7.7	6.8	7.7	6.8	8.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.1	6.4	7.6	8.8	9.8	10.8
100°	7.8	7.8	9.8	13.7	21.6	23.5	25.5	27.5	29.5	29.9	30.5
102.5°	27.5	27.5	31.4	37.3	44.2	45.4	46.6	47.9	49.0	49.2	49.6
105°	53.0	53.0	55.0	59.8	64.8	65.8	66.7	67.7	68.7	68.9	69.2
107.5°	76.5	75.5	78.5	82.5	86.3	87.1	87.9	88.6	89.3	89.8	90.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	99.2	100.1	101.1	104.0	108.0	108.4	109.0	109.4	110.0	110.4	110.9
112.5°	121.7	121.7	123.7	126.6	129.5	130.1	130.5	131.1	131.5	132.1	132.5
115°	143.3	144.3	146.2	148.2	151.2	151.6	152.2	152.6	153.1	153.6	154.1
117.5°	165.8	166.8	168.8	170.8	173.7	174.2	174.7	175.2	175.7	175.9	176.2
120°	189.5	191.4	192.3	194.3	197.3	197.4	197.8	198.1	198.3	198.7	199.2
122.5°	215.0	216.0	216.9	218.8	221.8	222.0	222.3	222.6	222.8	223.0	223.3
125°	239.5	241.5	242.5	243.4	246.3	246.6	246.9	247.1	247.3	247.6	247.8
127.5°	262.0	264.0	265.0	267.0	269.0	269.4	269.9	270.4	270.9	271.4	271.8
130°	284.7	286.6	287.5	288.5	292.5	292.7	292.9	293.3	293.5	293.9	294.5
132.5°	307.2	308.2	311.2	312.1	315.0	315.2	315.6	315.8	316.0	316.8	317.6
135°	329.8	330.8	332.7	334.7	338.6	338.6	338.6	338.6	338.6	339.4	340.1
137.5°	352.3	353.3	356.3	357.3	360.2	360.2	360.2	360.2	360.2	360.7	361.2
140°	375.0	375.9	377.8	378.8	380.8	381.0	381.3	381.6	381.8	382.0	382.3
142.5°	396.5	398.5	400.5	399.5	402.4	402.4	402.4	402.4	402.4	402.9	403.4
145°	417.2	418.1	420.0	420.0	423.0	423.2	423.6	423.8	424.0	424.4	425.0
147.5°	435.8	435.8	438.7	439.7	443.7	443.9	444.1	444.4	444.6	444.8	445.1
150°	452.5	453.5	455.4	456.4	460.3	460.5	460.8	461.1	461.3	461.5	461.8
152.5°	470.2	471.1	474.0	473.0	476.0	476.2	476.6	476.8	477.0	477.2	477.4
155°	489.8	490.7	492.7	491.7	493.7	493.7	493.7	493.7	493.7	493.9	494.2
157.5°	503.5	505.5	507.5	506.5	509.4	509.4	509.4	509.4	509.4	509.4	509.4
160°	515.3	517.2	519.2	519.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
162.5°	525.1	526.0	529.0	528.0	531.0	531.0	531.0	531.0	531.0	531.2	531.4
165°	535.9	536.8	538.8	537.8	541.8	541.8	541.8	541.8	541.8	541.9	542.3
167.5°	544.7	545.7	548.7	547.7	550.6	550.4	550.1	549.9	549.7	549.7	549.7
170°	551.6	552.5	555.5	554.5	556.5	556.3	556.1	555.7	555.5	555.3	555.1
172.5°	554.5	555.5	558.5	556.5	558.5	558.3	557.9	557.7	557.5	557.7	557.9
175°	556.5	558.5	559.5	558.5	561.4	561.4	561.4	561.4	561.4	561.6	561.9
177.5°	561.4	562.4	564.3	563.3	567.3	567.1	566.8	566.5	566.3	566.3	566.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3





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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
0°	295.6	295.6	295.6	295.6	295.6	295.6	295.6	295.6	295.6	295.6	295.6
2.5°	293.8	295.6	294.7	295.6	293.8	295.6	293.0	295.6	294.7	295.6	293.8
5°	296.5	299.0	296.5	299.9	296.5	299.9	296.5	299.9	297.2	299.9	296.5
7.5°	299.0	304.2	300.8	305.1	300.8	306.0	300.8	306.0	302.5	306.8	300.8
10°	304.2	310.3	305.1	310.3	305.1	311.0	305.1	311.9	306.8	313.7	306.0
12.5°	308.5	315.3	310.3	317.1	309.4	318.8	311.0	321.3	312.8	323.1	312.8
15°	314.5	323.1	317.9	325.6	317.9	328.2	318.8	330.8	321.3	332.6	321.3
17.5°	323.1	332.6	325.6	335.2	326.5	337.8	327.4	340.3	330.8	342.1	330.8
20°	335.2	342.8	336.0	346.3	336.9	347.1	338.6	348.9	341.2	351.5	341.2
22.5°	348.9	355.8	350.6	356.5	348.0	356.5	348.0	356.5	350.6	359.2	350.6
25°	364.4	369.6	363.5	369.6	361.7	368.7	360.8	367.8	361.7	369.6	363.5
27.5°	384.9	387.6	380.7	385.8	376.4	383.3	374.6	381.5	375.5	382.4	378.1
30°	407.3	409.9	403.0	406.4	396.2	400.5	391.0	397.1	391.8	397.1	394.4
32.5°	432.3	435.7	428.0	429.7	421.0	421.9	414.2	416.7	412.5	414.2	413.3
35°	460.7	465.0	456.2	458.9	449.4	449.4	442.5	441.7	440.0	438.2	438.2
37.5°	496.8	498.4	491.6	491.6	480.3	480.3	471.8	471.8	468.4	465.0	463.2
40°	536.2	537.1	525.9	525.0	513.9	513.9	504.4	501.8	495.9	491.6	488.9
42.5°	578.3	577.5	561.1	562.9	546.5	547.3	535.4	532.8	526.8	521.6	516.4
45°	621.3	617.9	601.5	600.7	581.7	582.6	568.0	566.3	557.7	552.5	546.5
47.5°	665.1	663.4	645.3	641.0	621.3	620.4	601.5	601.5	592.9	587.9	581.7
50°	710.6	709.8	689.2	686.6	665.9	662.5	640.2	640.2	629.9	628.2	619.7
52.5°	760.4	757.0	734.7	733.8	714.2	711.5	687.5	685.8	670.2	669.3	660.0
55°	809.5	803.4	788.8	782.0	762.2	761.3	739.8	735.5	715.8	715.8	703.8
57.5°	854.2	849.0	837.0	830.9	812.1	809.5	786.3	786.3	769.1	768.2	755.4
60°	900.6	902.3	889.4	886.8	868.8	867.9	844.7	844.7	827.5	826.7	812.1
62.5°	940.1	957.2	952.1	953.8	938.4	935.8	912.6	910.9	891.1	888.5	876.5
65°	901.4	961.5	1000.3	1026.0	1024.2	1023.3	1001.1	997.7	972.8	965.9	946.2
67.5°	757.0	835.2	905.7	983.0	1039.8	1082.7	1095.7	1090.5	1069.1	1049.2	1025.1
70°	507.0	597.2	686.6	782.9	879.9	974.4	1071.6	1113.7	1158.4	1142.8	1138.6
71°	385.8	478.7	568.0	669.3	772.5	877.4	996.8	1046.6	1136.9	1136.0	1159.3
72.5°	217.4	299.9	395.3	483.7	580.9	689.2	812.1	867.0	996.8	1022.6	1089.6
75°	69.6	95.4	126.3	199.3	259.5	358.3	449.4	504.4	590.4	633.3	727.0
77.5°	46.4	51.6	53.3	61.8	69.6	98.8	134.0	164.1	180.5	189.0	198.4
80°	33.5	36.1	37.8	42.1	43.0	48.1	48.1	53.3	52.4	55.9	53.3
82.5°	21.5	24.1	25.0	26.6	27.5	30.9	32.7	36.1	36.1	37.8	36.9
85°	10.3	12.0	12.0	13.7	13.7	16.3	16.3	19.0	19.0	21.5	20.6
87.5°	0.9	0.9	0.9	1.8	1.8	1.8	2.5	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	11.8	12.8	11.3	9.8	8.4	6.8	6.4	5.9	5.4	4.9	4.7
100°	30.9	31.4	30.9	30.5	29.9	29.5	28.7	27.9	27.3	26.5	26.3
102.5°	49.9	50.0	49.9	49.6	49.2	49.0	48.6	48.1	47.6	47.1	47.3
105°	69.5	69.7	69.7	69.7	69.7	69.7	69.2	68.7	68.2	67.7	68.2
107.5°	90.8	91.3	91.1	90.8	90.5	90.3	90.1	89.8	89.5	89.3	89.5



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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
110°	111.4	111.9	111.9	111.9	111.9	111.9	111.7	111.4	111.1	110.9	111.1
112.5°	132.9	133.5	133.5	133.5	133.5	133.5	133.3	132.9	132.7	132.5	132.9
115°	154.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.6
117.5°	176.4	176.7	176.9	177.1	177.4	177.7	177.4	177.1	176.9	176.7	177.1
120°	199.7	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.7
122.5°	223.6	223.8	223.8	223.8	223.8	223.8	223.9	224.3	224.6	224.8	225.7
125°	248.1	248.3	248.5	248.8	249.1	249.3	249.3	249.3	249.3	249.3	250.1
127.5°	272.4	272.8	272.6	272.4	272.1	271.8	272.1	272.4	272.6	272.8	273.6
130°	294.9	295.5	295.5	295.5	295.5	295.5	295.6	295.9	296.2	296.4	297.2
132.5°	318.2	319.0	319.0	319.0	319.0	319.0	319.2	319.4	319.8	320.0	320.8
135°	340.7	341.5	341.5	341.5	341.5	341.5	341.7	342.1	342.3	342.5	343.1
137.5°	361.7	362.2	362.2	362.2	362.2	362.2	362.4	362.6	362.9	363.2	364.2
140°	382.6	382.8	382.8	382.8	382.8	382.8	383.3	383.8	384.3	384.7	385.7
142.5°	403.9	404.3	404.3	404.3	404.3	404.3	404.6	404.9	405.1	405.3	406.1
145°	425.4	426.0	425.8	425.4	425.2	425.0	425.2	425.4	425.8	426.0	426.8
147.5°	445.4	445.6	445.1	444.6	444.1	443.7	443.9	444.1	444.4	444.6	445.4
150°	462.1	462.3	461.8	461.3	460.8	460.3	460.3	460.3	460.3	460.3	461.3
152.5°	477.8	478.0	477.8	477.4	477.2	477.0	477.0	477.0	477.0	477.0	477.8
155°	494.4	494.7	494.4	494.2	493.9	493.7	493.9	494.2	494.4	494.7	495.4
157.5°	509.4	509.4	508.9	508.4	507.9	507.5	507.6	507.9	508.2	508.4	509.6
160°	522.2	522.2	521.6	521.2	520.7	520.2	520.2	520.2	520.2	520.2	520.9
162.5°	531.8	532.0	531.4	531.0	530.4	530.0	529.6	529.0	528.6	528.0	528.6
165°	542.6	542.8	541.9	541.3	540.6	539.8	539.3	538.8	538.4	537.8	538.4
167.5°	549.7	549.7	549.1	548.7	548.1	547.7	547.9	548.1	548.4	548.7	549.7
170°	554.7	554.5	554.3	554.1	553.7	553.5	554.1	554.5	555.1	555.5	556.7
172.5°	558.3	558.5	557.9	557.5	556.9	556.5	556.7	556.9	557.3	557.5	558.3
175°	562.2	562.4	561.6	560.9	560.3	559.5	558.9	558.5	557.9	557.5	558.3
177.5°	566.3	566.3	565.6	564.9	564.1	563.3	563.3	563.3	563.3	563.3	564.1
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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**CANDELA DISTRIBUTION (continued):**

	80°	82.5°	85°	87.5°	90°
0°	295.6	295.6	295.6	295.6	295.6
2.5°	296.5	295.6	296.5	294.7	296.5
5°	300.8	297.2	301.7	297.2	301.7
7.5°	307.6	303.4	308.5	301.7	307.6
10°	313.7	307.6	314.5	307.6	313.7
12.5°	324.0	314.5	325.6	314.5	325.6
15°	334.3	323.1	336.9	324.7	336.0
17.5°	343.7	333.5	346.3	334.3	345.5
20°	352.3	342.8	354.0	342.1	354.0
22.5°	360.8	354.9	363.5	354.9	363.5
25°	372.1	367.8	373.9	367.8	373.9
27.5°	384.9	383.3	386.7	382.4	387.6
30°	399.6	400.5	401.4	400.5	402.1
32.5°	417.6	421.9	420.1	420.1	420.1
35°	442.5	450.3	445.1	446.9	446.0
37.5°	465.7	476.9	470.0	472.6	470.9
40°	491.6	499.3	497.5	497.5	495.9
42.5°	519.8	529.3	526.8	527.7	525.9
45°	550.8	559.5	556.1	555.2	556.1
47.5°	586.1	595.5	591.3	590.4	591.3
50°	623.1	634.1	630.7	629.0	630.7
52.5°	663.4	677.1	675.4	673.7	676.2
55°	710.6	723.6	721.8	723.6	724.4
57.5°	757.9	772.5	769.1	773.4	775.1
60°	817.2	825.8	826.7	827.5	828.3
62.5°	877.4	880.8	883.3	886.0	886.8
65°	946.9	947.8	949.6	946.9	949.6
67.5°	1014.0	1008.0	1007.1	1009.7	1011.4
70°	1118.0	1118.0	1109.4	1121.4	1111.1
71°	1131.8	1148.0	1129.1	1155.8	1127.5
72.5°	1064.7	1094.8	1073.3	1097.3	1069.1
75°	740.7	810.3	809.5	843.9	816.3
77.5°	205.4	192.5	205.4	177.1	169.3
80°	55.9	50.8	55.0	46.4	52.4
82.5°	36.9	31.8	30.9	25.0	26.6
85°	21.5	16.3	16.3	12.8	13.7
87.5°	3.4	0.9	3.4	1.8	2.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0
97.5°	4.4	4.1	4.0	4.0	4.0
100°	26.1	25.7	25.5	25.1	24.5
102.5°	47.6	47.9	48.1	47.6	47.1
105°	68.7	69.2	69.7	68.7	67.7
107.5°	89.8	90.1	90.3	89.8	89.3



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CATALOG NUMBER: ISS-AF-450-LED-E1-RW-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	80°	82.5°	85°	87.5°	90°
110°	111.4	111.7	111.9	111.4	110.9
112.5°	133.5	133.9	134.5	133.5	132.5
115°	156.0	156.6	157.0	156.6	156.0
117.5°	177.7	178.1	178.7	177.7	176.7
120°	201.2	201.7	202.2	201.2	200.2
122.5°	226.7	227.7	228.7	228.2	227.7
125°	250.8	251.4	252.2	251.7	251.3
127.5°	274.3	275.0	275.8	274.3	272.8
130°	297.9	298.6	299.3	298.3	297.4
132.5°	321.4	322.1	322.9	322.0	321.0
135°	343.5	344.1	344.5	344.1	343.5
137.5°	365.1	366.1	367.0	366.1	365.1
140°	386.7	387.7	388.7	387.7	386.7
142.5°	406.8	407.5	408.3	407.8	407.3
145°	427.4	428.1	428.9	428.0	427.0
147.5°	446.1	446.7	447.5	446.1	444.6
150°	462.3	463.3	464.2	462.8	461.3
152.5°	478.4	479.2	480.0	478.4	477.0
155°	496.1	496.9	497.6	496.7	495.7
157.5°	510.9	512.1	513.3	511.9	510.3
160°	521.6	522.4	523.2	522.2	521.2
162.5°	529.0	529.6	530.0	528.6	527.0
165°	538.8	539.3	539.8	538.8	537.8
167.5°	550.6	551.6	552.5	551.6	550.6
170°	557.9	559.3	560.5	559.5	558.5
172.5°	558.9	559.6	560.5	558.9	557.5
175°	558.9	559.6	560.5	558.9	557.5
177.5°	564.9	565.6	566.3	564.9	563.3
180°	565.3	565.3	565.3	565.3	565.3

(END OF REPORT)