

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: P271762

Luminaire Tested: **ISW-AF-450-LED-E1-SL2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISW-AF-450-LED-E1-SL2-7027  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

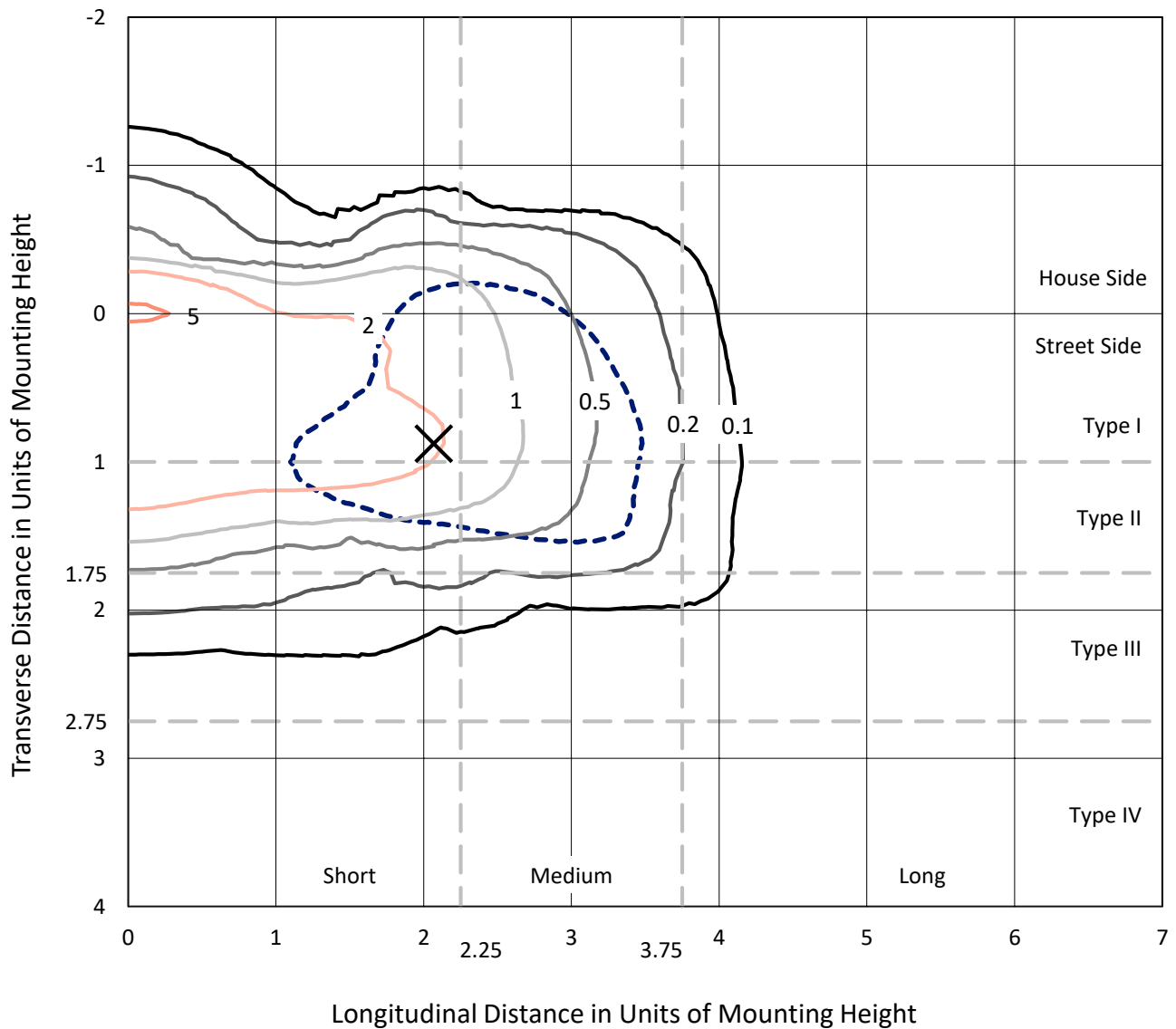
Lumens per Lamp: N/A  
Luminaire Lumens: 2632.6 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U1 - G1  
  
Input Watts (W): 25.31  
Input Voltage (V): 120  
Input 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

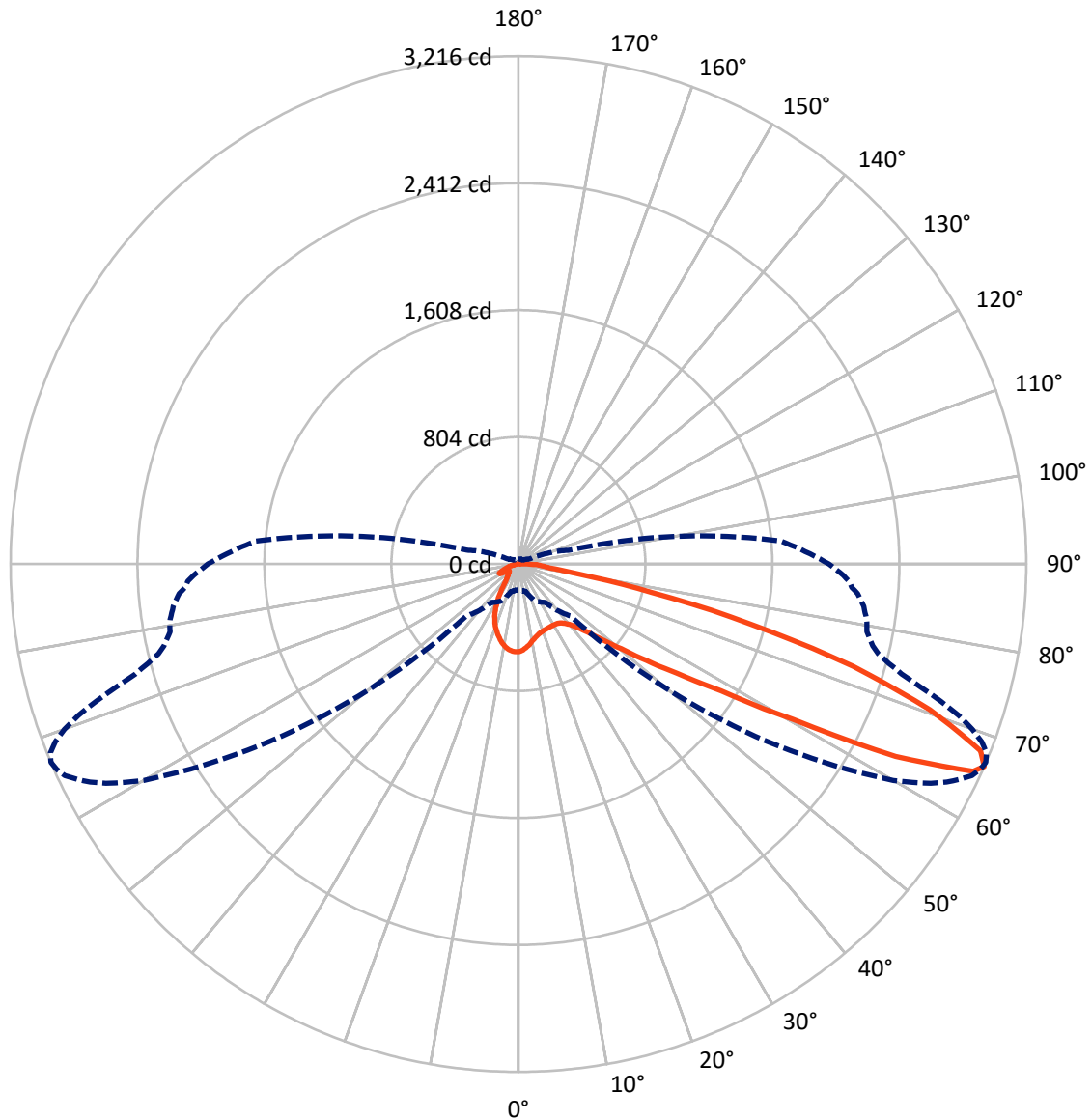
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	486.1	0.2	486.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	2145.6	0.8	2146.3
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	2631.7	1.0	2632.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	1.8
10°-20°	114.4	4.3
20°-30°	156.8	6.0
30°-40°	224.1	8.5
40°-50°	363.3	13.8
50°-60°	575.6	21.9
60°-70°	729.4	27.7
70°-80°	362.6	13.8
80°-90°	57.4	2.2
90°-100°	1.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2631.7	100.0
0°-180°	2632.6	100.0



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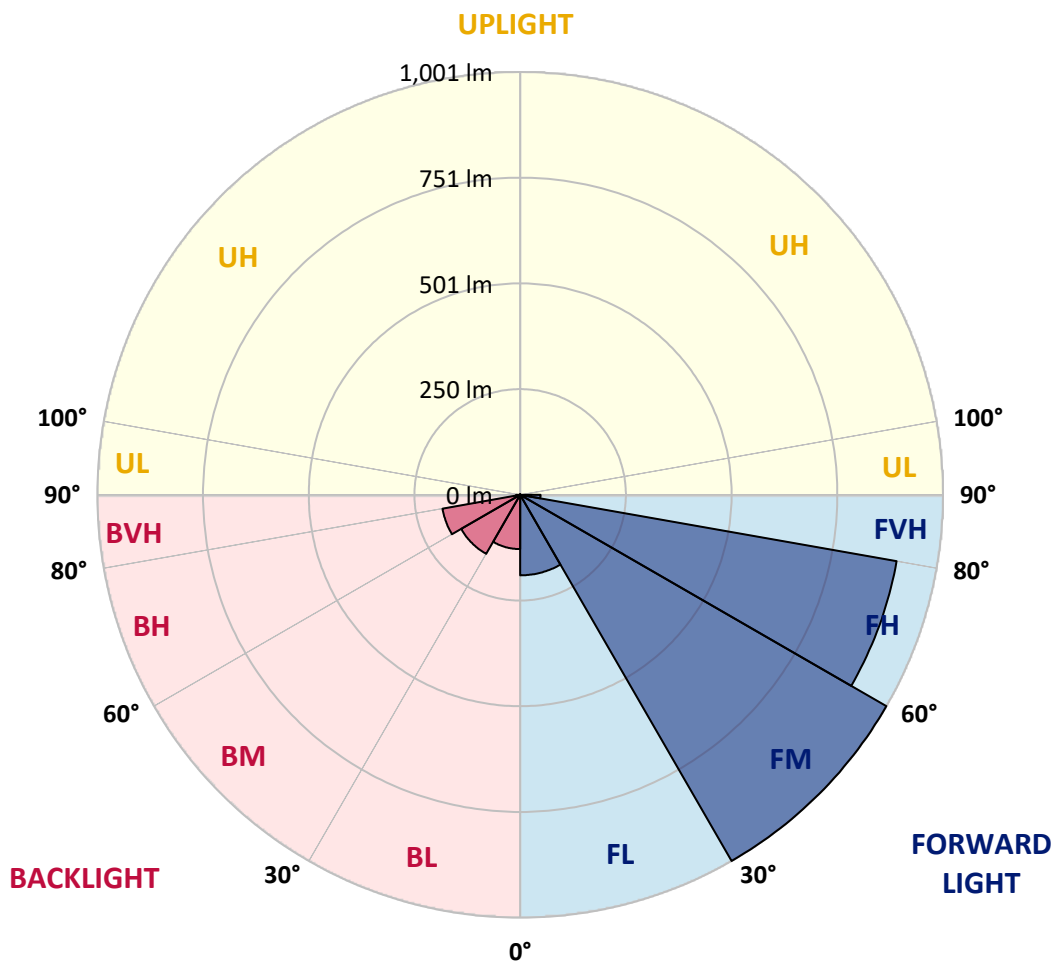
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	190.7	7.2			
FM (30°-60°)	1001.5	38.0			
FH (60°-80°)	905.2	34.4			G1/1800
FVH (80°-90°)	48.2	1.8			G1/100
BL (0°-30°)	128.5	4.9	B1/500		
BM (30°-60°)	161.5	6.1	B0/220		
BH (60°-80°)	186.8	7.1	B1/500		G1/500
BVH (80°-90°)	9.3	0.4			G0/10
UL (90°-100°)	1.0	0.0		U1/10	
UH (100°-180°)	0.2	0.0		U1/10	

**BUG Rating: B1-U1-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2
2.5°	515.0	516.2	522.9	526.5	531.5	533.1	539.2	541.5	543.5	543.0	543.0
5°	468.6	472.3	475.5	482.6	490.0	499.2	510.7	519.3	520.8	522.9	524.1
7.5°	433.5	435.9	441.3	446.5	456.1	468.6	484.9	496.0	498.4	499.2	502.0
10°	408.5	410.2	414.8	421.7	432.7	445.0	462.0	473.5	477.0	478.5	481.0
12.5°	389.1	391.6	396.0	403.1	414.8	427.5	445.4	456.9	459.2	461.2	464.7
15°	377.0	378.5	382.5	390.4	401.0	413.7	431.2	445.0	446.5	448.5	451.7
17.5°	374.5	375.7	378.2	384.0	392.4	404.7	422.5	433.9	436.7	439.5	442.7
20°	384.0	384.8	385.6	386.5	391.2	399.0	416.5	428.7	431.2	433.5	437.5
22.5°	404.7	405.9	403.9	401.0	397.5	399.0	413.7	426.3	428.0	430.4	433.5
25°	440.2	439.0	433.2	428.7	416.2	405.9	414.5	425.2	427.1	429.6	433.2
27.5°	482.2	480.5	477.0	465.1	444.2	423.2	419.3	427.1	428.3	430.4	433.5
30°	527.2	527.7	524.5	511.5	484.5	449.3	430.0	431.9	432.7	434.3	436.3
32.5°	568.0	573.8	573.5	572.7	534.3	484.5	450.5	442.7	441.3	442.7	443.4
35°	615.1	616.2	627.4	632.9	601.7	536.0	480.5	463.2	458.5	458.9	458.0
37.5°	665.6	667.4	686.2	695.7	671.7	594.5	520.5	493.6	489.3	484.9	481.7
40°	739.2	745.5	755.5	766.2	754.3	673.2	573.1	536.7	525.7	524.9	518.5
42.5°	849.2	847.2	842.5	851.1	837.0	761.4	636.8	597.6	589.4	578.3	569.5
45°	957.1	961.5	941.0	944.9	945.7	863.5	729.0	674.0	669.7	656.6	647.0
47.5°	1030.0	1025.2	997.6	1017.7	1067.2	982.5	835.7	778.0	768.9	762.2	756.2
50°	1033.9	1030.0	1012.2	1047.7	1153.3	1194.0	984.5	917.2	904.1	892.4	888.7
52.5°	937.4	931.9	937.8	1010.2	1184.7	1371.4	1194.5	1090.1	1079.4	1069.5	1055.7
55°	765.4	771.6	799.9	903.8	1136.7	1497.0	1607.9	1357.1	1311.2	1310.8	1276.9
57.5°	571.5	565.2	586.1	683.9	1015.7	1541.9	1987.6	1925.4	1823.0	1753.9	1670.4
60°	385.6	387.2	406.7	456.9	706.9	1493.2	2241.9	2458.2	2422.2	2407.5	2385.1
62.5°	267.3	269.7	287.5	334.6	413.3	1201.2	2316.2	2756.9	2821.4	2874.8	2861.7
65°	187.0	187.5	205.4	278.0	309.6	617.0	2152.1	2796.4	2892.5	2984.3	3066.5
66°	164.9	165.4	180.0	258.7	297.0	465.5	2009.7	2741.4	2851.0	2957.8	3042.8
67.5°	141.2	143.5	155.0	219.9	284.9	359.1	1660.1	2577.2	2692.0	2809.4	2921.7
70°	96.8	97.6	108.0	178.4	266.5	315.2	946.2	2012.0	2170.7	2377.2	2496.6
72.5°	69.2	68.5	69.6	110.3	273.7	313.3	497.2	1324.2	1546.2	1727.4	1856.7
75°	61.7	59.7	54.5	68.5	199.7	342.2	333.0	779.5	948.5	1113.4	1245.9
77.5°	55.0	51.8	49.0	52.6	98.8	322.3	299.0	446.5	532.8	655.9	757.8
80°	42.0	40.0	41.5	45.5	59.3	296.6	297.0	297.0	320.3	360.7	401.0
82.5°	27.7	25.3	28.8	37.5	44.6	223.5	307.0	262.2	257.9	256.3	259.1
85°	17.3	15.0	20.2	28.0	34.5	116.7	314.9	276.9	256.6	237.3	218.0
87.5°	6.3	7.2	10.3	16.2	22.5	50.7	276.0	244.0	230.1	206.1	183.5
90°	1.5	1.2	2.0	4.7	5.1	9.5	42.3	67.6	40.3	20.2	16.2
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2
2.5°	543.5	545.5	546.2	545.5	545.8	548.2	547.3	548.7	548.7	549.4	549.4
5°	525.7	527.2	530.4	530.0	533.1	534.3	535.6	537.2	539.2	540.3	542.7
7.5°	504.7	507.8	510.7	512.2	514.2	518.1	519.3	522.9	526.0	529.2	531.5
10°	484.5	488.9	492.0	493.2	497.6	499.5	503.9	506.6	510.7	514.5	518.1
12.5°	467.5	471.5	473.0	477.0	481.0	484.9	486.9	492.0	496.0	501.2	505.8
15°	454.8	458.9	462.0	464.7	468.6	472.7	475.8	481.0	485.7	490.8	495.2
17.5°	447.0	449.3	453.3	455.7	460.4	465.1	468.6	474.7	479.8	484.2	490.0
20°	441.0	443.9	447.4	450.9	455.2	461.2	464.3	470.7	476.2	481.3	486.9
22.5°	437.8	440.6	444.2	447.7	452.5	457.2	462.4	467.8	473.9	479.3	484.9
25°	436.7	439.0	442.1	445.8	450.9	456.1	460.4	466.7	471.9	477.8	484.5
27.5°	437.0	438.6	442.1	445.4	450.5	455.2	459.7	466.0	471.9	477.4	484.2
30°	438.6	439.8	443.4	446.2	450.5	455.2	459.2	466.0	471.1	477.0	484.2
32.5°	444.2	445.8	447.4	449.3	453.3	456.9	461.5	467.5	472.3	478.2	484.2
35°	457.2	456.1	457.2	458.0	460.8	464.3	467.8	473.0	477.4	482.6	488.9
37.5°	477.8	475.5	476.2	475.8	475.8	478.2	481.7	485.4	488.9	494.0	500.4
40°	515.8	509.9	508.2	503.9	502.7	504.7	507.0	507.5	511.9	518.5	521.3
42.5°	564.9	556.9	558.0	551.0	549.0	546.6	549.9	547.8	550.6	555.0	560.8
45°	642.4	634.8	626.8	615.5	617.9	609.1	606.7	607.5	607.2	608.7	615.9
47.5°	734.9	725.0	719.9	715.5	707.2	702.0	695.4	685.5	687.8	691.0	697.4
50°	870.2	867.0	857.2	842.9	840.9	833.4	831.4	822.7	819.5	819.2	818.7
52.5°	1050.9	1030.4	1026.4	1013.0	1002.7	995.5	993.2	980.9	968.6	975.8	975.0
55°	1271.2	1254.2	1232.5	1220.5	1212.4	1195.4	1191.0	1175.5	1168.3	1164.5	1154.5
57.5°	1641.5	1581.7	1537.0	1514.9	1483.6	1452.0	1440.9	1409.4	1384.7	1367.4	1368.6
60°	2286.9	2180.5	2055.2	1999.0	1868.9	1849.9	1760.5	1738.8	1685.0	1649.4	1628.8
62.5°	2852.6	2823.7	2763.5	2681.7	2551.2	2400.9	2333.3	2198.8	2093.6	2047.7	1984.0
65°	3122.8	3163.5	3180.1	3164.7	3112.4	3020.7	2940.1	2808.7	2632.2	2532.6	2408.7
66°	3108.9	3169.4	3199.9	3215.8	3196.7	3142.5	3057.9	2949.9	2813.4	2661.6	2522.7
67.5°	3007.6	3066.5	3108.9	3157.1	3157.1	3140.1	3105.7	3033.8	2937.2	2804.7	2680.1
70°	2593.9	2673.9	2748.5	2763.2	2804.3	2791.7	2819.0	2773.1	2750.1	2694.7	2627.9
72.5°	2020.7	2087.6	2151.7	2215.8	2205.1	2191.2	2188.5	2198.0	2151.4	2167.9	2150.5
75°	1344.0	1459.2	1524.7	1518.5	1522.8	1526.4	1497.0	1431.8	1482.5	1418.3	1439.7
77.5°	816.8	870.2	888.0	868.2	842.5	809.2	755.8	724.7	679.8	683.5	653.9
80°	428.3	435.0	420.9	380.9	359.1	339.4	278.5	251.2	225.8	216.3	195.0
82.5°	245.7	229.3	212.0	198.5	172.8	155.5	131.7	116.7	100.5	86.2	81.0
85°	199.0	177.1	161.0	146.0	128.5	113.2	93.3	78.0	66.0	57.3	55.3
87.5°	164.1	149.1	132.5	118.3	101.3	85.4	66.0	51.5	40.7	32.8	30.5
90°	14.6	19.8	14.2	7.9	11.9	6.3	3.5	4.0	3.1	3.1	3.5
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: ISW-AF-450-LED-E1-SL2-7027

**CANDELA DISTRIBUTION (continued):**

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271762

CATALOG NUMBER: ISW-AF-450-LED-E1-SL2-7027

**CANDELA DISTRIBUTION (continued):**

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2
2.5°	550.6	550.6	551.4	552.2	552.5	552.5	552.5	553.4	553.7	552.5	553.7
5°	543.8	545.8	547.3	548.7	549.0	550.2	551.4	552.2	553.4	553.4	554.2
7.5°	534.9	538.4	540.3	542.3	544.2	546.2	548.7	550.2	551.0	552.5	553.7
10°	523.4	527.7	531.5	534.9	537.5	541.5	544.6	547.0	550.6	551.0	553.7
12.5°	511.0	517.3	520.5	526.5	530.4	536.4	539.5	543.0	547.0	549.0	552.2
15°	502.3	507.8	513.8	519.3	525.7	532.8	536.7	541.5	547.0	551.4	555.3
17.5°	495.7	503.1	509.9	517.0	524.9	532.3	538.4	543.5	550.6	553.0	556.9
20°	493.6	502.0	508.7	516.2	524.5	534.3	541.5	547.0	554.2	558.0	561.7
22.5°	492.8	500.7	508.7	517.7	526.9	537.2	544.6	551.8	558.8	562.5	565.2
25°	492.0	500.4	509.1	519.3	529.2	539.9	548.7	555.3	562.1	565.7	568.0
27.5°	492.0	500.7	510.2	520.5	531.2	543.0	551.4	557.7	563.7	566.8	567.5
30°	491.6	500.7	509.9	521.3	532.8	545.0	554.2	560.0	565.2	567.2	566.4
32.5°	492.5	502.0	511.9	523.4	535.2	547.0	556.5	563.2	566.0	565.7	565.2
35°	496.4	505.0	516.5	528.0	540.3	551.4	560.5	565.2	567.5	566.8	564.9
37.5°	507.0	515.8	527.2	539.9	549.4	562.1	570.3	573.8	574.3	572.0	567.2
40°	529.2	537.9	548.2	562.1	573.5	582.2	590.2	594.0	591.7	587.3	582.2
42.5°	564.5	575.5	587.9	598.8	612.3	624.1	626.1	628.5	624.5	616.2	609.9
45°	621.0	627.7	643.5	651.8	669.2	675.2	679.5	680.7	672.0	665.3	654.2
47.5°	702.5	715.5	726.5	734.5	747.2	755.0	763.8	759.9	753.0	741.6	727.0
50°	830.7	838.9	853.2	867.4	880.9	886.4	886.4	882.5	878.1	855.9	838.1
52.5°	988.0	988.9	1009.3	1026.4	1037.9	1029.5	1039.5	1029.5	1026.9	1011.4	996.7
55°	1170.4	1162.9	1187.8	1202.8	1213.1	1223.0	1221.0	1219.8	1209.6	1192.1	1174.4
57.5°	1343.7	1365.3	1377.2	1399.4	1404.5	1411.2	1408.5	1404.5	1398.6	1388.7	1380.9
60°	1593.6	1608.2	1618.9	1623.2	1637.9	1639.9	1649.7	1633.6	1637.5	1626.0	1601.0
62.5°	1933.7	1917.9	1926.2	1926.2	1921.9	1906.5	1914.7	1921.1	1910.4	1900.9	1897.0
65°	2314.7	2263.5	2214.6	2206.2	2183.7	2178.6	2172.3	2156.4	2149.7	2133.1	2119.7
66°	2428.6	2349.4	2303.2	2274.7	2247.4	2241.5	2232.7	2216.2	2202.7	2179.4	2156.8
67.5°	2556.4	2454.3	2384.7	2344.4	2310.7	2288.5	2271.2	2247.4	2226.1	2191.2	2155.2
70°	2548.0	2463.8	2379.9	2318.6	2268.0	2222.5	2195.5	2144.5	2101.0	2051.2	2010.0
72.5°	2141.0	2126.0	2077.3	2042.9	1980.9	1956.7	1885.5	1853.0	1792.9	1728.5	1708.7
75°	1488.4	1429.5	1404.5	1390.7	1363.4	1288.3	1239.2	1249.9	1179.5	1116.6	1080.6
77.5°	650.6	662.5	593.7	562.9	539.2	498.4	460.4	434.3	419.3	409.4	364.7
80°	180.0	157.0	155.0	144.0	141.7	126.2	128.2	117.0	109.5	108.0	104.5
82.5°	78.7	77.2	74.8	73.6	72.3	70.8	68.8	68.5	66.0	64.0	64.5
85°	52.2	51.8	50.7	49.5	47.5	44.6	42.7	41.1	41.5	39.5	39.2
87.5°	30.5	29.6	29.3	27.7	27.3	25.0	25.3	23.4	23.0	22.5	21.4
90°	4.3	4.7	5.9	5.5	4.0	7.5	6.3	5.5	5.9	4.7	4.7
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271762  
 CATALOG NUMBER: ISW-AF-450-LED-E1-SL2-7027

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°



NUMBER: P271762  
 NUMBER: ISW-AF-450-LED-E1-SL2-7027

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	110°	86°
554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	110°	0.0
555.0	555.7	556.1	555.7	556.5	556.1	556.5	556.1	554.2	553.7	553.4	112.5°	0.0
555.7	557.3	557.7	558.0	557.3	558.0	556.5	550.2	543.0	535.2	528.8	115°	0.0
556.5	558.5	559.6	559.6	560.0	559.3	553.4	539.5	522.9	506.3	493.6	117.5°	0.0
556.1	558.8	560.0	560.5	560.5	558.8	544.6	522.5	497.2	471.9	446.2	120°	0.0
555.0	557.3	559.3	559.3	559.6	554.2	532.0	500.4	464.3	426.3	392.0	122.5°	0.0
557.3	559.6	559.6	559.6	559.3	549.9	518.5	472.7	424.4	373.0	322.0	125°	0.0
560.8	562.1	561.4	561.4	559.6	545.5	503.5	445.4	382.0	314.0	242.8	127.5°	0.0
564.0	564.9	564.5	562.5	560.5	540.7	488.0	416.5	331.5	242.8	172.0	130°	0.0
567.2	568.0	566.0	562.9	560.0	534.3	469.5	379.7	274.2	166.2	113.9	132.5°	0.0
567.5	568.4	564.9	560.5	556.5	524.9	447.0	340.5	211.2	107.5	89.0	135°	0.0
567.2	566.4	560.5	555.0	550.6	513.4	422.0	291.9	140.9	81.0	77.5	137.5°	0.0
564.5	560.8	556.1	549.9	543.5	500.7	397.1	237.7	89.0	70.3	70.3	140°	0.0
560.5	556.9	551.0	542.7	535.6	488.5	368.7	182.4	71.1	64.9	65.7	142.5°	0.0
558.8	555.0	546.2	537.5	528.5	477.4	338.6	122.6	64.0	61.4	61.7	145°	0.0
562.1	555.3	546.6	536.7	526.0	467.8	307.3	85.4	60.5	57.3	58.1	147.5°	0.0
572.7	566.4	556.1	543.5	532.0	462.4	274.2	70.8	57.0	54.2	54.2	150°	0.0
598.5	590.2	576.4	561.4	547.3	466.0	244.5	64.5	54.2	51.5	51.5	152.5°	0.0
640.0	630.1	613.8	596.8	578.7	483.4	210.8	62.2	52.2	48.3	47.5	155°	0.0
711.2	698.2	676.7	656.6	634.8	513.4	176.8	60.5	49.9	46.4	44.6	157.5°	0.0
823.0	803.7	778.4	751.9	725.4	568.4	149.8	58.9	48.3	44.6	43.1	160°	0.0
967.0	954.0	922.4	887.5	855.9	678.0	134.5	57.7	47.1	42.7	41.5	162.5°	0.0
1150.5	1129.3	1104.4	1073.0	1035.5	820.0	132.9	57.3	45.8	41.1	40.3	165°	0.0
1344.4	1336.0	1293.8	1274.4	1233.6	1009.0	161.8	58.1	45.1	40.0	38.8	167.5°	0.0
1565.6	1568.7	1529.2	1507.7	1474.2	1248.7	257.5	60.5	45.1	38.8	37.5	170°	0.0
1854.6	1859.9	1813.0	1787.8	1759.3	1517.2	404.7	64.5	46.4	37.5	36.4	172.5°	0.0
2091.5	2063.9	2033.9	1989.6	1953.5	1667.2	389.7	71.5	47.9	36.4	35.2	175°	0.0
2116.0	2096.4	2058.4	2010.5	1966.6	1668.0	340.2	74.0	48.3	36.0	34.9	177.5°	0.0
2112.9	2077.7	2034.6	1994.2	1951.2	1625.2	263.0	77.2	49.5	35.2	34.0	180°	0.0
1966.6	1917.2	1875.2	1819.4	1774.3	1454.4	161.8	76.7	47.9	32.8	32.0		
1621.7	1596.4	1546.5	1501.9	1454.7	1177.0	110.7	68.5	42.3	29.6	30.0		
1049.0	1020.0	969.5	944.2	917.7	753.0	86.2	55.8	36.0	26.5	27.7		
350.1	338.6	320.0	330.3	314.9	293.5	63.3	42.3	28.8	23.0	24.5		
104.8	102.5	106.0	99.7	105.6	89.4	41.5	29.6	22.2	19.8	21.8		
62.2	61.4	61.4	61.4	59.7	55.8	27.3	20.6	17.0	16.6	18.1		
38.0	37.2	37.5	37.2	38.0	34.0	18.5	14.2	12.7	12.3	14.6		
21.8	21.8	22.2	21.4	21.8	21.0	13.0	9.2	8.4	7.9	10.7		
5.1	5.1	4.0	3.5	4.0	5.5	3.5	2.8	2.3	2.0	3.5		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'271762  
 ISW-AF-450-LED-E1-SL2-7027

REPORT NUMBER: P271762  
 CATALOG NUMBER: ISW-AF-4!

**TION (continued):**

**CANDELA DISTRIBUTION (con**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	554.2	554.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	550.2	547.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	519.0	511.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	473.9	465.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	422.5	409.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	356.8	331.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	280.8	246.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	193.5	165.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	135.6	125.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	104.8	105.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	87.0	91.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	76.7	80.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	70.3	74.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	66.0	67.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	60.9	61.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	56.5	56.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	52.6	52.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	49.0	48.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	45.5	45.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	43.5	43.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	41.5	42.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	40.0	40.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	38.4	38.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	37.2	36.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	36.0	35.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	35.2	34.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	34.5	33.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	34.0	33.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	33.7	32.8
										70°	32.0	31.2
										72.5°	29.6	29.3
										75°	27.3	26.5
										77.5°	24.2	23.7
										80°	20.6	20.2
										82.5°	17.3	16.6
										85°	13.8	13.0
										87.5°	9.5	8.7
										90°	2.3	2.8
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



REPORT NUMBER: P271762

CATALOG NUMBER: ISW-AF-450-LED-E1-

50-LED-E1-SL2-7027

**tinued):**

175°	180°
554.2	554.2
545.0	548.7
509.1	507.8
458.0	458.5
396.3	397.1
316.5	311.7
226.6	228.6
157.8	157.5
126.6	127.4
108.3	108.3
96.5	96.5
85.0	85.4
77.2	78.0
70.0	70.3
62.9	63.3
57.0	57.0
53.0	53.4
50.2	50.2
47.5	47.5
45.1	45.8
42.7	43.1
40.3	40.7
38.0	38.0
36.0	36.0
34.5	34.0
33.2	32.4
32.0	31.6
31.6	31.2
31.2	30.8
30.5	30.0
29.3	28.8
26.9	26.1
24.5	23.7
22.5	21.4
19.0	18.1
13.8	13.0
8.4	8.4
2.0	2.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°
110°	0.0	0.0	0.0
112.5°	0.0	0.0	0.0
115°	0.0	0.0	0.0
117.5°	0.0	0.0	0.0
120°	0.0	0.0	0.0
122.5°	0.0	0.0	0.0
125°	0.0	0.0	0.0
127.5°	0.0	0.0	0.0
130°	0.0	0.0	0.0
132.5°	0.0	0.0	0.0
135°	0.0	0.0	0.0
137.5°	0.0	0.0	0.0
140°	0.0	0.0	0.0
142.5°	0.0	0.0	0.0
145°	0.0	0.0	0.0
147.5°	0.0	0.0	0.0
150°	0.0	0.0	0.0
152.5°	0.0	0.0	0.0
155°	0.0	0.0	0.0
157.5°	0.0	0.0	0.0
160°	0.0	0.0	0.0
162.5°	0.0	0.0	0.0
165°	0.0	0.0	0.0
167.5°	0.0	0.0	0.0
170°	0.0	0.0	0.0
172.5°	0.0	0.0	0.0
175°	0.0	0.0	0.0
177.5°	0.0	0.0	0.0
180°	0.0	0.0	0.0

