

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: P271767

Luminaire Tested: **ISW-AF-450-LED-E1-T2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271767  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)  
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-T2-7027  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2724.8 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Cutoff  
BUG Rating: B1 - U1 - G1

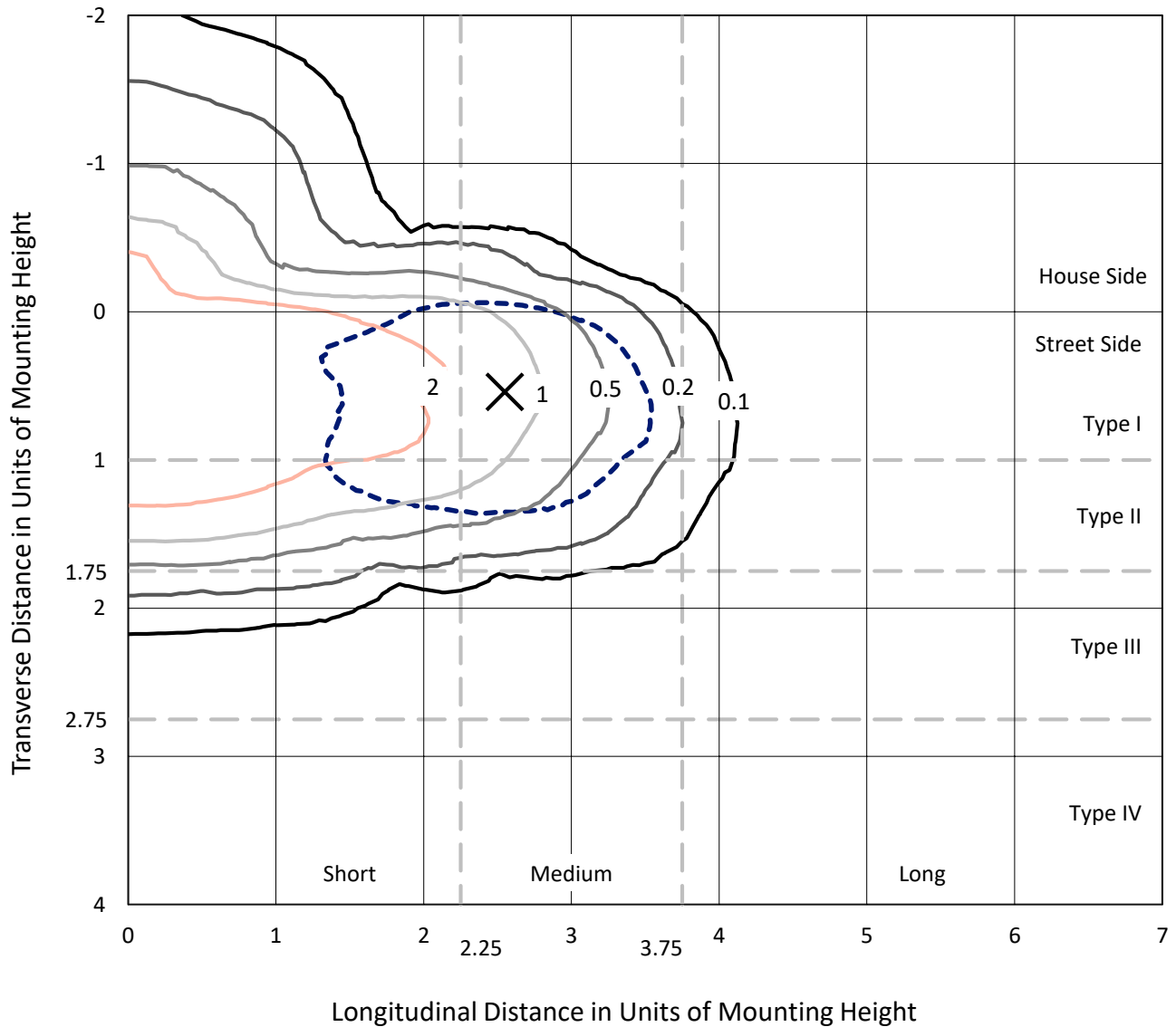
Input Watts (W): 25.31  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

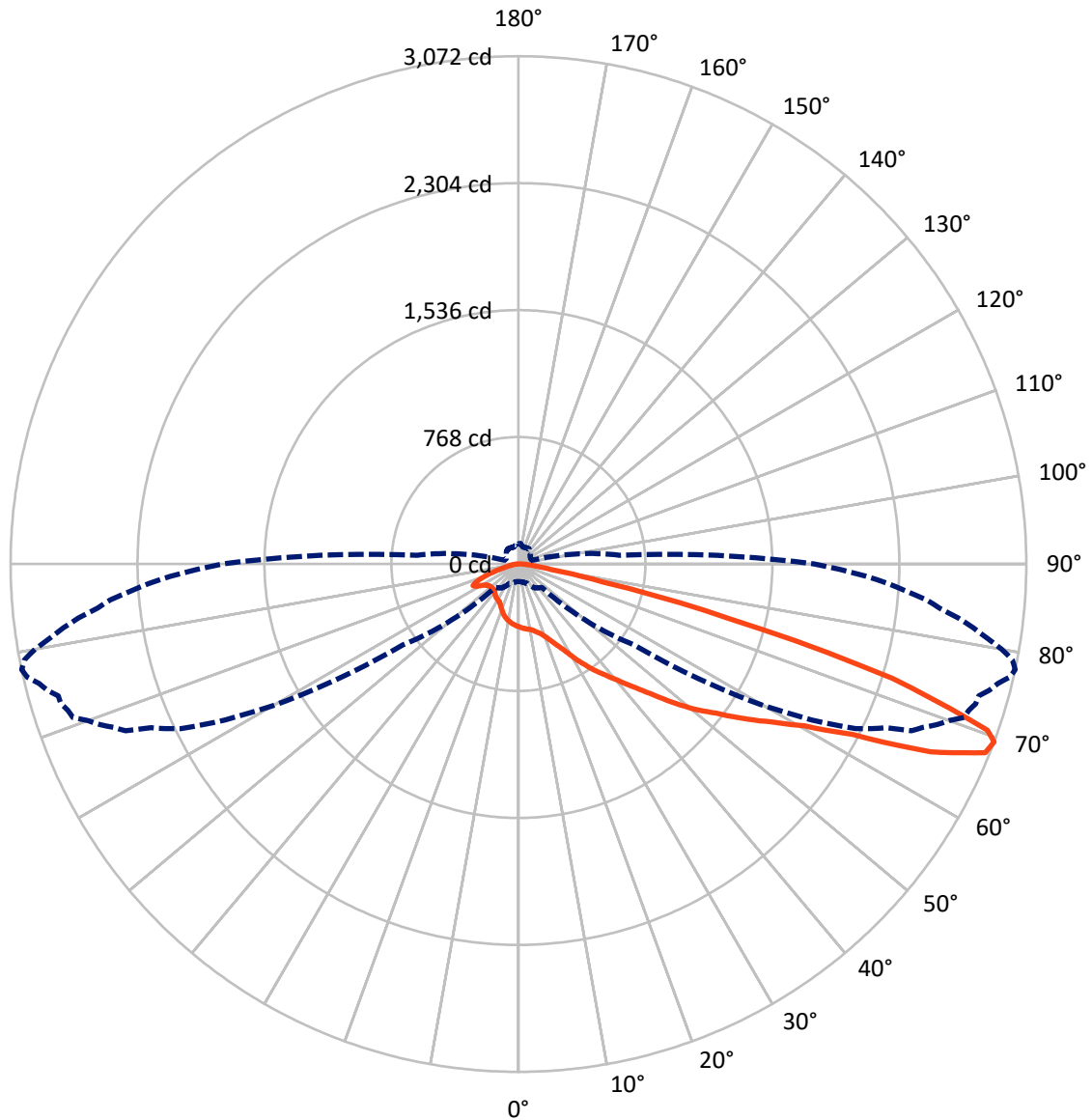
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	498.2	1.0	499.2
	% Fixture	18.3	0.0	18.3
<b>Street Side</b>	Lumens	2225.2	0.4	2225.7
	% Fixture	81.7	0.0	81.7
<b>Total</b>	Lumens	2723.4	1.4	2724.8
	% Fixture	99.9	0.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.2	1.3
10°-20°	106.3	3.9
20°-30°	190.5	7.0
30°-40°	310.9	11.4
40°-50°	459.9	16.9
50°-60°	600.5	22.0
60°-70°	671.6	24.6
70°-80°	301.5	11.1
80°-90°	47.0	1.7
90°-100°	1.4	0.1
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°	2723.4	99.9
0°-180°	2724.8	100.0



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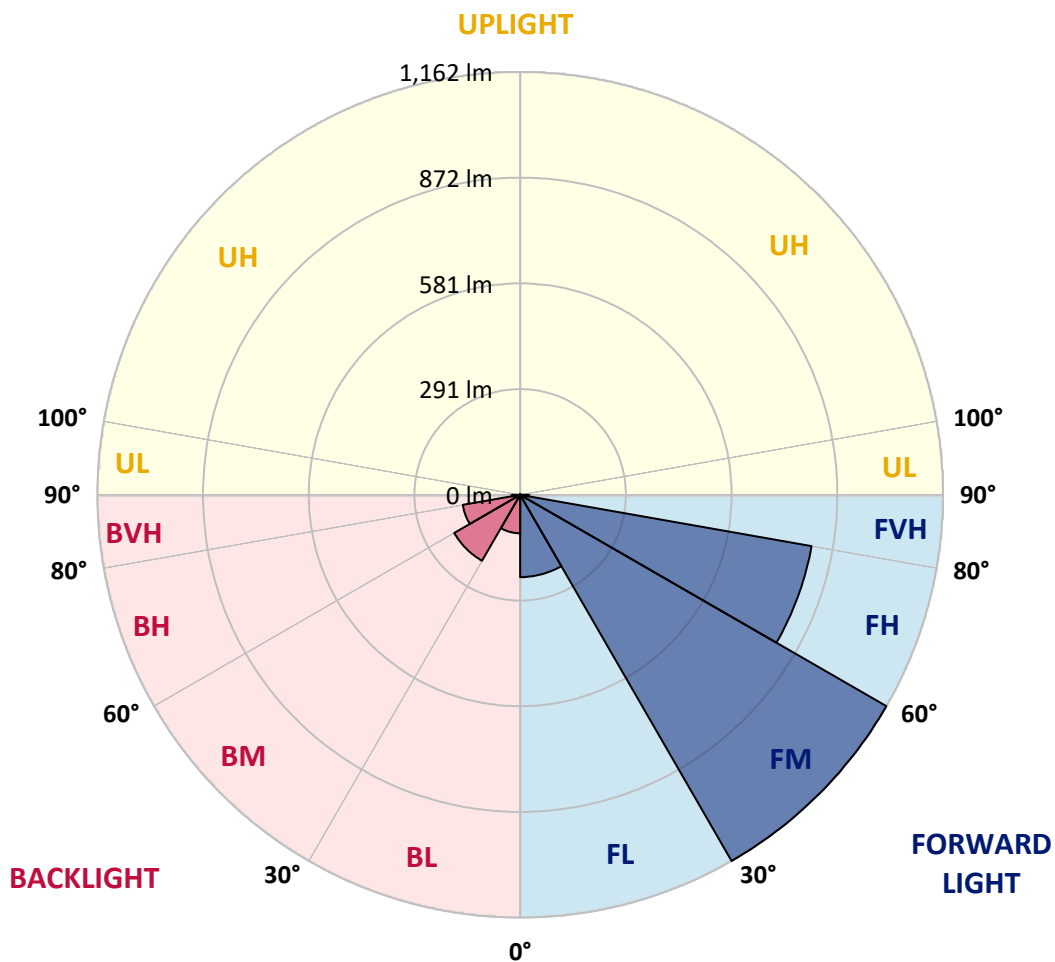
CATALOG NUMBER: ISW-AF-450-LED-E1-T2-7027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.2	8.3			
FM (30°-60°)	1162.0	42.6			
FH (60°-80°)	813.0	29.8			G1/1800
FVH (80°-90°)	24.0	0.9			G1/100
BL (0°-30°)	105.7	3.9	B0/110		
BM (30°-60°)	209.3	7.7	B0/220		
BH (60°-80°)	160.1	5.9	B1/500		G1/500
BVH (80°-90°)	23.0	0.8			G1/100
UL (90°-100°)	1.4	0.1		U1/10	
UH (100°-180°)	1.0	0.0		U1/10	

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9
2.5°	405.9	405.9	404.7	403.9	402.7	399.6	394.7	394.0	393.5	392.8	392.0
5°	435.5	432.4	433.2	431.2	426.9	421.2	412.5	408.2	405.9	405.5	403.9
7.5°	459.7	460.0	458.9	454.9	449.0	442.2	430.4	423.6	421.7	420.5	417.7
10°	477.0	475.8	475.0	474.2	469.5	464.0	449.0	440.7	439.1	435.9	432.7
12.5°	489.7	489.7	489.7	488.9	486.2	481.9	469.9	461.5	459.7	455.4	452.6
15°	503.5	502.0	500.4	499.2	499.5	499.5	490.8	484.5	481.4	479.1	473.5
17.5°	533.2	529.6	526.0	521.4	513.8	511.9	511.5	511.0	506.7	506.4	500.7
20°	558.6	555.3	552.2	547.4	536.7	525.3	531.3	536.7	536.0	536.4	533.6
22.5°	589.7	587.4	581.0	575.5	561.7	547.9	548.7	560.5	562.1	563.7	564.5
25°	632.5	631.3	621.0	610.4	594.5	581.5	569.2	583.9	587.0	590.5	597.7
27.5°	675.6	672.8	661.8	652.3	632.5	618.7	601.7	609.6	614.4	621.0	632.0
30°	731.4	723.9	719.9	698.5	680.4	660.2	645.5	647.9	647.0	655.0	672.0
32.5°	812.1	800.2	780.4	759.1	737.7	710.8	698.5	698.2	696.2	705.3	714.8
35°	855.5	852.9	840.5	819.3	795.9	770.6	762.6	755.1	756.4	761.0	764.5
37.5°	902.7	900.3	890.8	878.9	861.1	874.9	831.0	820.1	814.9	812.4	813.7
40°	923.2	925.3	930.4	932.4	922.0	988.5	901.9	865.4	863.9	860.4	856.7
42.5°	927.6	932.7	943.0	965.6	975.4	1120.3	960.4	916.5	910.2	907.4	907.7
45°	943.4	951.3	953.3	973.9	1020.6	1126.9	1026.4	961.5	956.9	956.4	954.1
47.5°	981.8	992.4	992.4	1001.5	1045.9	1139.9	1049.0	1006.7	1003.6	1001.9	1008.3
50°	987.2	1001.5	1030.1	1059.3	1091.4	1150.7	1074.7	1055.8	1056.9	1060.4	1079.0
52.5°	893.5	907.7	982.9	1069.3	1173.6	1179.9	1113.4	1121.1	1128.9	1146.3	1180.4
55°	766.2	776.5	865.4	1003.6	1176.8	1291.1	1210.7	1231.8	1248.4	1253.6	1306.9
57.5°	603.2	617.5	708.0	887.3	1098.9	1322.8	1434.8	1444.1	1425.6	1442.6	1462.0
60°	326.7	325.2	451.3	641.6	935.0	1264.3	1650.6	1813.6	1817.6	1843.7	1812.4
62.5°	182.7	182.7	219.2	329.5	601.7	1069.6	1754.3	2133.3	2182.7	2224.2	2315.7
65°	138.1	139.2	152.4	198.5	337.9	675.3	1678.3	2242.3	2337.3	2432.7	2592.9
67.5°	114.7	114.7	124.1	148.0	211.2	306.5	1235.7	2023.3	2142.0	2255.8	2477.3
69°	106.4	106.8	113.9	130.2	176.8	199.3	853.6	1715.5	1851.1	2009.0	2270.1
70°	102.5	101.3	108.0	121.5	160.2	157.5	625.4	1491.6	1596.8	1738.5	2038.7
72.5°	91.0	89.8	93.3	103.7	126.2	112.4	255.1	802.5	961.2	1119.7	1359.1
75°	81.0	79.9	82.6	87.5	98.1	85.9	128.2	336.2	407.0	526.0	725.8
77.5°	71.5	69.2	71.5	74.8	77.2	64.0	87.0	155.5	190.7	234.2	330.7
80°	64.9	62.5	65.3	63.7	60.5	49.5	57.7	90.5	100.5	120.2	157.5
82.5°	46.4	45.9	62.2	64.0	48.3	36.0	41.1	58.1	64.9	68.5	83.0
85°	28.5	27.3	36.0	45.9	49.0	22.5	26.5	34.5	36.0	39.2	46.4
87.5°	14.6	15.0	19.3	23.7	32.0	13.5	15.8	20.2	20.2	20.2	23.0
90°	3.5	4.3	5.9	8.4	6.7	3.5	5.9	4.7	5.5	4.7	5.5
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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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9
2.5°	392.4	391.2	389.7	390.0	389.2	388.1	388.4	388.1	388.4	387.7	386.9
5°	403.9	403.1	400.7	400.4	399.6	398.7	397.5	396.3	396.0	395.2	393.5
7.5°	416.9	414.6	413.4	411.7	409.8	406.7	406.2	404.7	403.5	402.7	400.7
10°	430.4	427.6	426.1	424.0	422.0	420.0	418.1	415.4	412.5	411.7	409.4
12.5°	450.5	447.0	443.9	440.7	438.6	435.0	432.4	428.9	426.1	424.8	420.9
15°	472.7	467.9	464.7	462.4	459.2	456.1	452.6	449.3	445.0	441.4	437.8
17.5°	498.8	494.4	492.1	487.7	483.7	480.2	477.4	473.5	469.9	463.5	460.4
20°	533.2	529.6	526.9	522.2	517.9	514.2	511.9	503.5	498.8	493.3	488.0
22.5°	565.2	565.7	562.9	559.7	556.9	552.2	548.2	542.3	536.4	529.6	522.5
25°	600.1	603.2	603.6	602.9	601.2	595.7	593.7	587.9	583.1	572.0	568.8
27.5°	638.9	642.4	646.7	652.3	653.4	647.5	650.4	644.4	636.1	631.3	621.0
30°	676.4	686.2	695.4	701.8	705.7	708.4	706.4	704.5	698.9	691.1	681.9
32.5°	724.7	734.9	744.1	757.9	765.0	773.7	772.1	772.9	770.9	763.0	752.3
35°	773.4	782.4	794.3	803.4	820.8	830.2	838.2	837.8	837.8	833.1	822.8
37.5°	816.4	821.6	831.4	846.6	857.9	873.1	885.7	890.8	899.1	899.6	888.4
40°	861.6	866.7	874.2	885.3	897.9	915.7	932.7	949.3	957.2	965.6	961.2
42.5°	910.2	915.7	921.2	928.4	946.5	960.4	983.4	1005.9	1022.1	1039.1	1037.1
45°	958.4	964.8	972.7	983.4	999.5	1022.1	1044.3	1069.6	1106.7	1126.9	1140.8
47.5°	1013.0	1023.3	1037.9	1055.0	1068.1	1091.4	1119.4	1158.5	1196.1	1230.9	1252.8
50°	1095.3	1099.3	1123.0	1139.6	1164.6	1188.3	1216.3	1250.7	1299.4	1335.0	1369.8
52.5°	1192.2	1207.2	1230.9	1249.9	1269.8	1293.5	1322.3	1353.2	1401.4	1441.4	1486.4
55°	1317.3	1338.6	1359.1	1369.5	1397.1	1418.4	1441.8	1472.2	1524.1	1567.6	1620.6
57.5°	1466.3	1487.8	1497.6	1512.6	1524.4	1548.2	1579.8	1600.4	1646.3	1691.4	1747.6
60°	1772.4	1759.0	1770.9	1747.6	1744.0	1745.9	1752.8	1768.5	1794.3	1836.1	1895.5
62.5°	2325.2	2305.7	2254.3	2235.7	2199.7	2151.0	2105.2	2098.8	2085.3	2117.0	2154.1
65°	2647.8	2718.3	2725.7	2745.6	2731.4	2693.4	2639.6	2622.2	2578.7	2548.2	2546.2
67.5°	2570.3	2675.9	2742.0	2825.5	2871.7	2916.9	2928.7	2944.1	2916.1	2902.2	2906.2
69°	2354.7	2433.1	2581.0	2638.0	2711.2	2771.3	2850.4	2864.2	2891.6	2895.5	2948.1
70°	2141.1	2256.3	2340.9	2426.3	2527.7	2593.7	2629.2	2687.8	2755.4	2788.7	2845.7
72.5°	1539.5	1577.1	1637.3	1747.9	1776.1	1844.5	1914.5	1964.3	2043.8	2100.0	2234.2
75°	830.7	853.2	947.7	1010.6	1027.2	1049.8	1101.2	1113.4	1143.1	1161.4	1290.3
77.5°	379.4	413.8	426.1	460.4	441.1	450.5	462.8	460.0	468.4	507.9	553.0
80°	174.8	181.5	186.3	200.5	201.3	198.2	199.3	197.4	195.8	202.1	206.9
82.5°	85.0	95.3	95.3	104.0	108.3	107.2	109.5	108.8	110.3	108.8	113.9
85°	49.9	49.9	53.8	58.5	57.7	59.4	59.4	62.5	62.9	63.7	63.7
87.5°	23.4	25.7	26.9	28.8	29.6	30.8	31.6	31.6	32.0	31.2	32.0
90°	5.9	5.9	9.9	9.9	10.7	11.9	10.3	11.0	13.8	10.3	13.0
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°	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: P271767

CATALOG NUMBER: ISW-AF-450-LED-E1-T2-7027

**CANDELA DISTRIBUTION (continued):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
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: P271767

CATALOG NUMBER: ISW-AF-450-LED-E1-T2-7027

**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9
2.5°	386.0	386.9	386.5	384.8	384.5	384.5	383.7	383.3	382.5	382.0	382.9
5°	393.2	393.2	392.0	390.4	388.9	388.4	388.1	386.0	385.2	384.5	383.7
7.5°	399.9	399.0	397.5	394.7	393.2	392.8	391.2	389.2	387.3	385.6	384.8
10°	407.0	406.2	403.1	401.1	397.9	397.5	394.7	392.4	390.4	388.4	386.9
12.5°	417.4	416.5	413.0	408.2	405.9	404.2	400.7	397.9	395.2	392.8	390.0
15°	433.2	430.0	427.6	422.8	419.3	416.2	411.7	407.8	403.9	399.9	397.5
17.5°	455.4	450.9	444.6	441.9	437.0	431.9	426.1	423.2	418.1	413.4	408.5
20°	484.2	479.9	469.9	466.4	459.7	452.2	447.4	441.4	437.0	429.6	424.4
22.5°	516.2	512.2	502.7	493.3	486.9	481.0	473.5	466.0	457.7	450.5	445.0
25°	557.8	551.8	543.5	534.0	524.5	516.2	505.9	495.2	488.0	478.3	470.4
27.5°	614.4	604.0	590.2	579.9	572.4	559.7	547.1	537.5	526.5	513.4	504.8
30°	675.6	664.2	653.9	642.0	629.4	617.0	599.7	585.9	573.9	560.1	545.9
32.5°	743.7	733.7	719.1	703.7	689.9	674.4	661.8	647.0	626.6	611.9	596.9
35°	812.1	800.6	785.6	772.5	756.7	740.9	726.5	707.2	688.7	667.7	646.7
37.5°	878.1	868.2	851.6	831.9	818.0	801.0	786.4	765.7	743.7	720.4	704.5
40°	951.8	935.9	924.4	901.4	887.3	868.2	847.3	831.4	810.1	784.8	762.2
42.5°	1035.9	1024.9	1012.6	994.1	979.1	956.4	929.9	909.7	890.0	859.9	828.7
45°	1142.7	1135.6	1115.4	1100.4	1080.2	1056.6	1033.6	1009.1	977.9	943.0	914.6
47.5°	1270.9	1265.4	1247.2	1225.8	1199.3	1167.3	1145.9	1112.3	1085.8	1042.3	1008.3
50°	1387.3	1389.9	1380.1	1347.3	1323.6	1291.5	1257.9	1228.6	1187.9	1142.7	1099.3
52.5°	1526.1	1523.3	1498.4	1480.1	1452.1	1413.3	1376.6	1338.9	1294.3	1247.6	1193.4
55°	1659.0	1667.3	1649.8	1624.1	1590.1	1535.9	1498.7	1450.1	1403.1	1351.6	1289.1
57.5°	1787.9	1814.5	1800.9	1770.5	1735.7	1696.6	1647.5	1593.0	1544.3	1477.0	1406.6
60°	1948.5	1983.6	1989.3	1969.4	1931.4	1886.0	1821.5	1778.8	1712.0	1649.8	1595.7
62.5°	2195.7	2275.7	2270.8	2280.3	2253.5	2225.4	2149.8	2104.0	2017.0	1972.3	1896.7
65°	2608.7	2667.7	2738.4	2736.1	2717.5	2650.2	2571.8	2495.1	2437.8	2349.6	2270.8
67.5°	2955.2	3003.8	3045.8	3024.1	2981.4	2905.7	2814.0	2707.2	2619.7	2522.5	2419.2
69°	2987.7	3047.1	3071.5	3044.5	2967.9	2869.4	2779.5	2680.4	2560.0	2476.5	2350.8
70°	2900.5	2959.2	3008.6	2939.3	2869.0	2772.9	2674.7	2571.5	2463.9	2374.1	2247.2
72.5°	2304.2	2370.2	2363.4	2356.0	2299.8	2203.6	2113.4	2058.1	1982.5	1874.1	1782.3
75°	1339.7	1370.3	1316.8	1373.0	1305.8	1208.8	1221.4	1158.9	1103.6	1041.0	992.9
77.5°	526.0	553.0	524.9	515.8	485.7	479.1	428.9	434.7	409.8	360.8	338.2
80°	199.3	202.8	198.2	188.3	186.3	174.8	171.7	160.5	155.5	139.2	133.3
82.5°	107.2	109.1	106.0	102.9	100.5	93.7	89.4	81.0	76.4	71.1	70.8
85°	61.7	60.2	58.5	57.0	53.4	49.5	46.4	43.1	39.5	36.8	34.0
87.5°	32.4	32.9	33.2	31.6	29.3	26.1	24.2	23.0	20.2	19.0	17.8
90°	10.7	7.9	9.2	11.5	10.7	8.7	8.4	7.2	5.9	5.9	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: P271767  
 CATALOG NUMBER: ISW-AF-450-LED-E1-T2-7027

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
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	67.5°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												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: P271767  
 NUMBER: ISW-AF-450-LED-E1-T2-7027

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	110°	0.0
381.7	381.7	380.5	379.7	377.0	372.2	367.5	363.2	357.2	354.8	351.7	112.5°	0.0
382.9	382.0	380.9	379.4	373.9	362.7	351.2	339.0	326.4	314.9	301.4	115°	0.0
383.7	382.0	380.5	378.5	370.6	353.7	330.7	306.5	284.0	267.0	259.9	117.5°	0.0
384.0	382.9	380.9	378.2	367.0	341.7	305.0	270.2	250.4	243.7	242.5	120°	0.0
388.4	386.5	383.3	380.2	365.5	328.7	276.0	242.9	235.0	238.1	243.7	122.5°	0.0
394.0	391.6	387.7	384.5	364.7	311.7	248.0	227.5	230.2	238.9	248.0	125°	0.0
403.9	399.9	395.5	392.4	366.3	290.7	225.5	219.5	227.8	238.9	251.2	127.5°	0.0
418.5	413.0	407.8	402.4	368.7	264.6	212.0	214.3	224.3	236.2	249.5	130°	0.0
436.7	430.4	423.2	414.9	371.4	242.0	204.5	208.9	218.0	228.2	239.3	132.5°	0.0
461.2	452.6	443.4	433.2	375.4	217.6	197.8	202.5	208.0	214.0	219.5	135°	0.0
492.1	480.2	470.4	456.5	379.4	201.0	192.2	193.9	195.0	195.8	195.4	137.5°	0.0
533.2	515.0	503.5	486.5	383.7	192.2	185.9	184.0	182.0	179.2	176.0	140°	0.0
576.7	561.7	543.5	521.7	386.5	186.3	180.0	173.6	168.2	165.4	165.4	142.5°	0.0
627.4	608.7	585.9	558.6	382.9	180.0	172.0	163.9	160.5	164.2	163.0	145°	0.0
678.0	652.3	626.9	595.7	374.2	172.8	163.3	159.0	161.3	156.7	153.9	147.5°	0.0
733.7	705.3	670.0	633.7	361.6	165.4	159.0	161.3	153.1	147.5	149.8	150°	0.0
796.3	762.6	724.7	675.3	353.2	160.5	152.4	154.3	147.1	143.2	142.0	152.5°	0.0
881.2	833.4	787.2	729.1	359.5	153.1	139.2	147.1	143.2	139.7	136.5	155°	0.0
964.8	913.8	859.2	790.7	370.6	147.5	129.0	139.7	142.4	136.5	130.5	157.5°	0.0
1048.6	994.4	930.7	854.4	384.0	144.0	121.0	130.5	140.5	133.3	128.5	160°	0.0
1136.9	1068.4	1003.1	920.9	401.5	140.5	114.7	122.6	136.8	133.3	126.2	162.5°	0.0
1229.4	1148.8	1083.4	994.4	431.9	135.3	106.8	116.3	133.3	132.9	123.8	165°	0.0
1336.9	1265.0	1181.1	1090.5	474.2	129.4	99.7	111.6	130.2	131.3	121.0	167.5°	0.0
1520.1	1445.7	1344.5	1258.3	558.2	121.5	95.3	106.8	125.0	128.2	118.7	170°	0.0
1817.2	1715.9	1623.0	1542.3	701.8	110.3	92.2	101.7	119.5	124.1	116.7	172.5°	0.0
2157.8	2058.8	1946.5	1810.8	781.6	100.1	87.9	95.3	113.9	120.2	114.7	175°	0.0
2302.5	2173.2	2036.6	1875.8	705.3	91.8	83.0	89.4	107.5	114.7	112.0	177.5°	0.0
2236.2	2105.2	1946.5	1788.7	613.5	87.5	80.3	86.2	102.9	111.1	109.1	180°	0.0
2120.6	1988.8	1847.3	1657.8	547.9	85.0	78.3	84.2	100.9	109.1	107.5		
1677.1	1559.6	1429.1	1284.8	373.4	77.2	72.0	78.3	93.0	102.0	101.7		
888.9	854.4	757.9	673.2	193.5	68.8	65.3	71.5	85.9	95.3	95.3		
320.0	290.3	277.7	230.7	102.9	60.2	58.5	63.3	78.0	87.0	86.7		
121.0	117.9	105.6	98.9	65.3	49.0	49.5	54.2	68.5	77.2	76.7		
68.5	62.2	60.2	58.1	41.5	38.8	40.7	45.5	58.5	66.0	67.2		
32.9	30.5	29.6	27.7	27.3	29.6	32.0	36.0	46.7	55.8	54.5		
15.8	15.0	14.6	14.2	19.3	19.0	23.4	25.0	31.2	44.3	40.0		
5.1	5.1	4.7	4.0	5.5	6.3	7.5	10.7	13.0	25.7	21.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'271767  
 ISW-AF-450-LED-E1-T2-7027

REPORT NUMBER: P271767  
 CATALOG NUMBER: ISW-AF-4!

**TION (continued):**

**CANDELA DISTRIBUTION (con**

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	378.9	378.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	348.9	343.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	291.5	290.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	255.6	250.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	243.7	243.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	248.8	250.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	255.6	257.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	259.9	264.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	258.7	263.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	245.7	248.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	222.3	223.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	194.2	193.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	174.5	169.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	165.4	162.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	159.0	153.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	165.0	164.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	170.5	169.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	161.0	153.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	143.5	135.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	131.7	127.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	126.2	124.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	124.7	128.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	123.8	128.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	118.3	125.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	114.4	123.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	112.0	122.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	110.0	123.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	106.8	125.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°	105.2	125.0
										70°	103.7	123.8
										72.5°	98.1	114.4
										75°	91.4	100.9
										77.5°	82.6	86.7
										80°	73.2	75.5
										82.5°	63.7	72.9
										85°	49.9	61.7
										87.5°	36.8	34.0
										90°	21.0	15.5
										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: P271767

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

50-LED-E1-T2-7027

**tinued):**

180°
378.9
344.5
288.4
250.8
244.5
249.2
258.7
265.8
265.0
250.0
223.9
196.5
173.2
165.7
156.2
166.5
171.3
155.5
135.3
126.2
123.8
129.7
127.8
126.2
123.8
121.8
121.5
122.2
120.6
118.7
106.8
96.1
86.7
76.4
64.5
48.3
36.8
13.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
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

(END OF F

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

