

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: STREETWORKS

Report Number: P459654

Luminaire Tested: **GAN-SA8A-AMB-U-SL4-HSS**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-AMB-U-SL4-HSS
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(8) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6218 lumens
Efficiency: N/A
Efficacy: 39.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

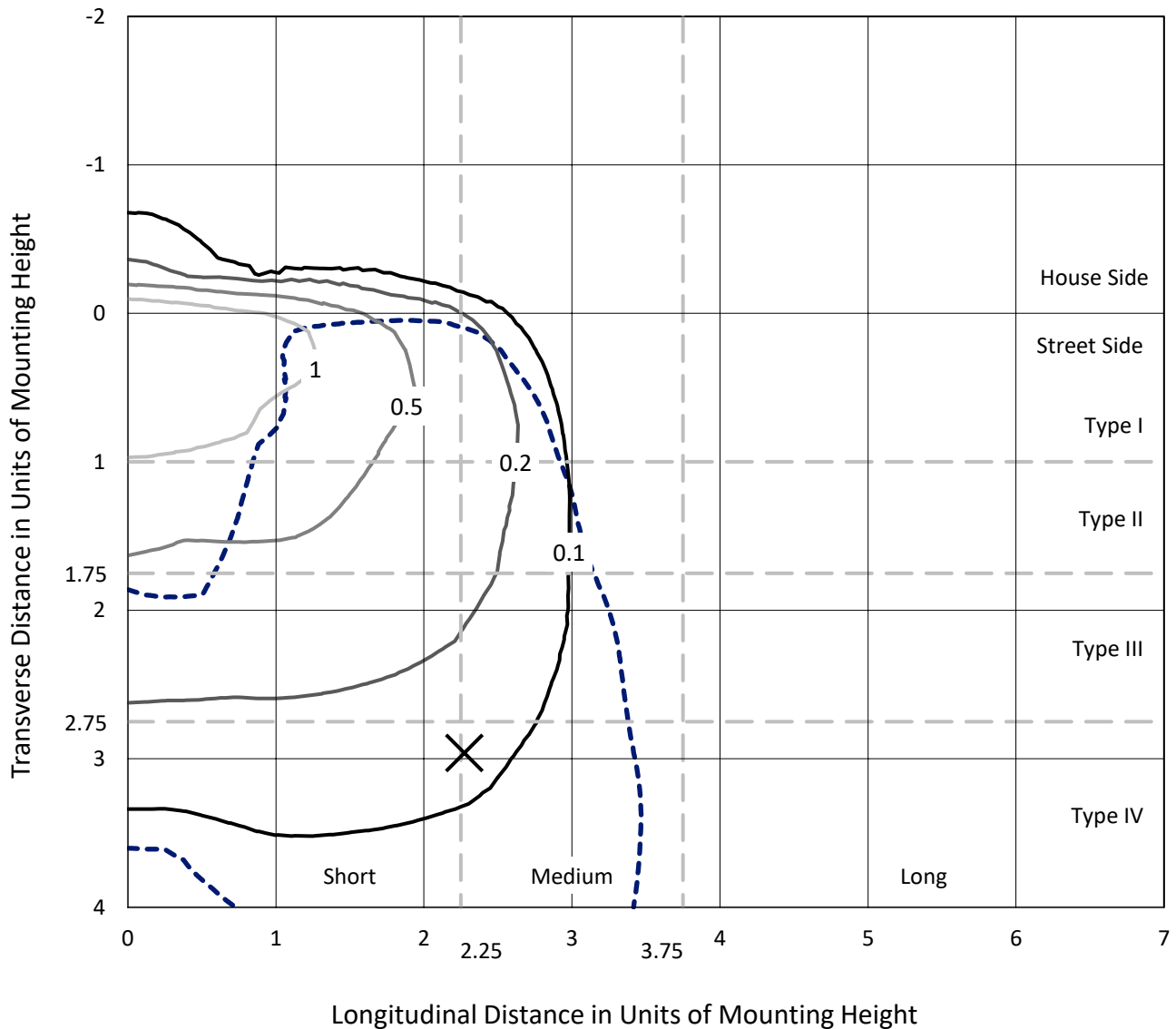
Input Watts (W): 158.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

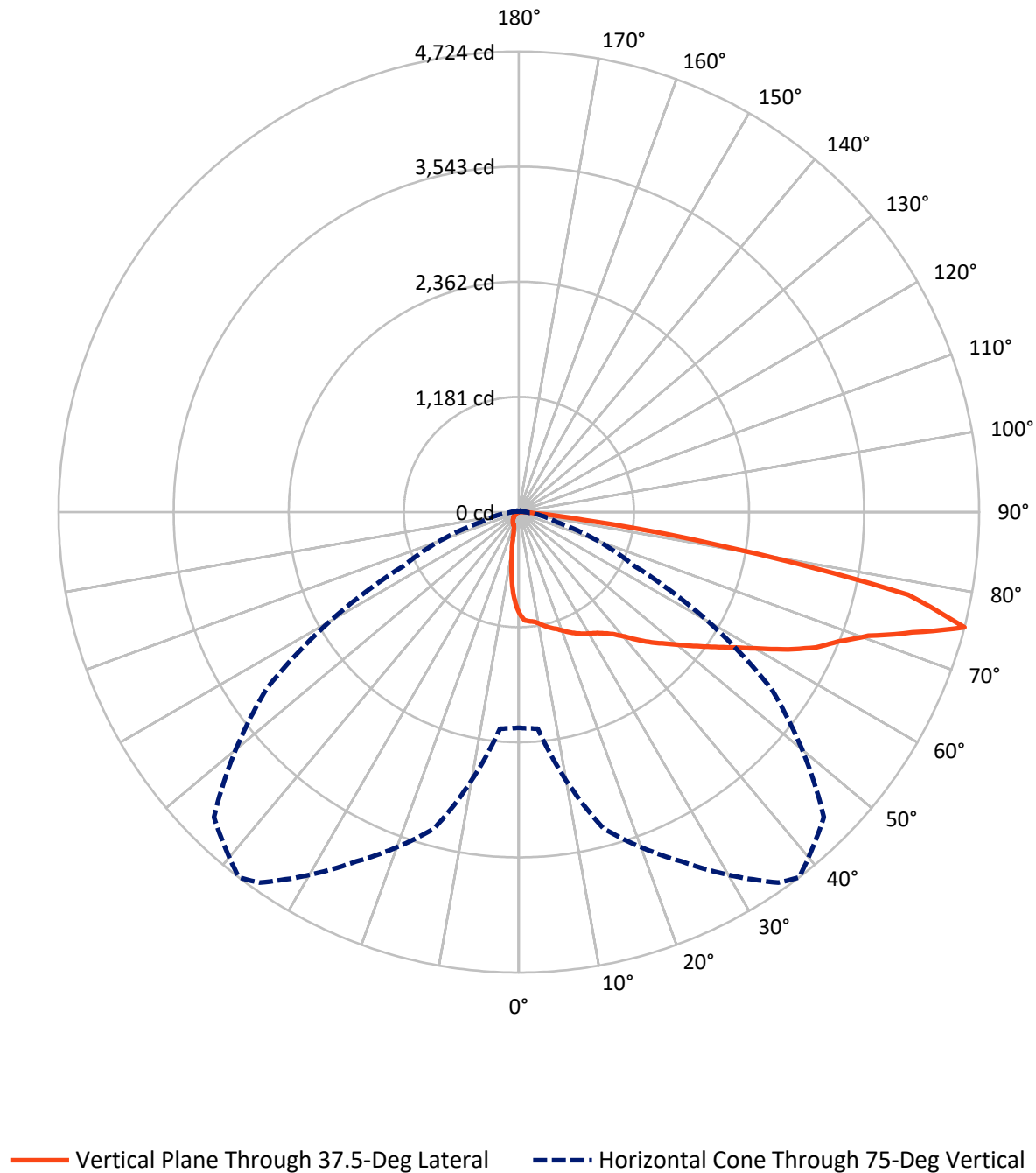
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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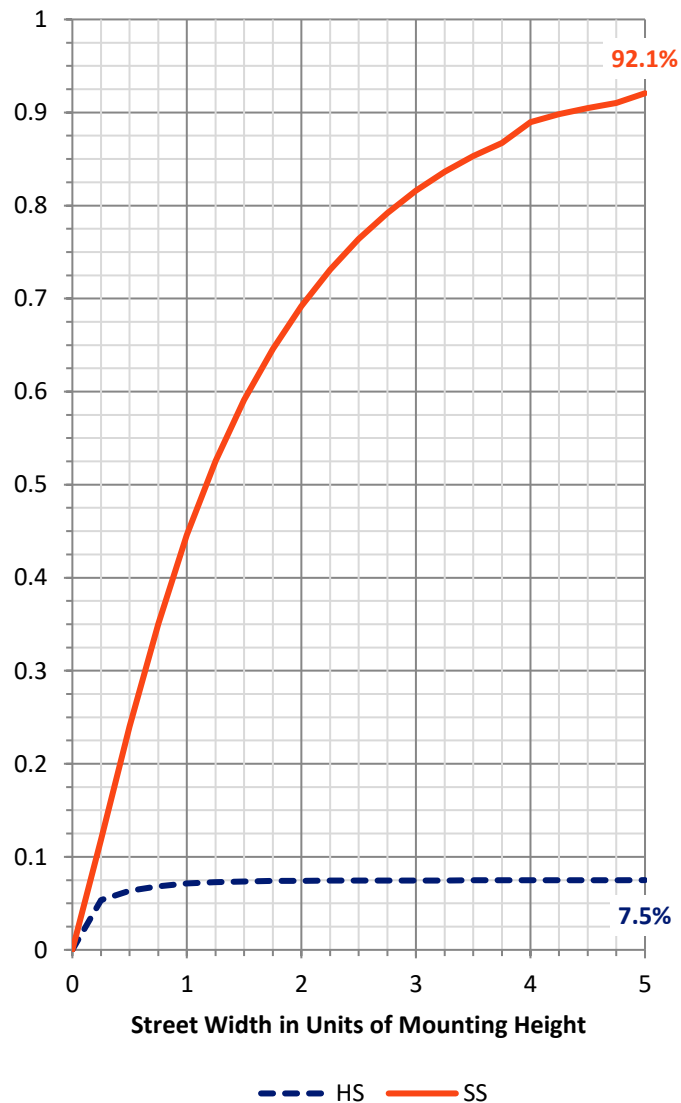
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	470.0	0.0	470.0
	% Fixture	7.6	0.0	7.6
Street Side	Lumens	5748.1	0.0	5748.1
	% Fixture	92.4	0.0	92.4
Total	Lumens	6218.0	0.0	6218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	1.4
10°-20°	224.6	3.6
20°-30°	367.5	5.9
30°-40°	546.1	8.8
40°-50°	817.5	13.1
50°-60°	1174.8	18.9
60°-70°	1574.4	25.3
70°-80°	1275.3	20.5
80°-90°	149.1	2.4
90°-100°	0.0	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°	6218.0	100.0
0°-180°	6218.0	100.0

Coefficient of Utilization



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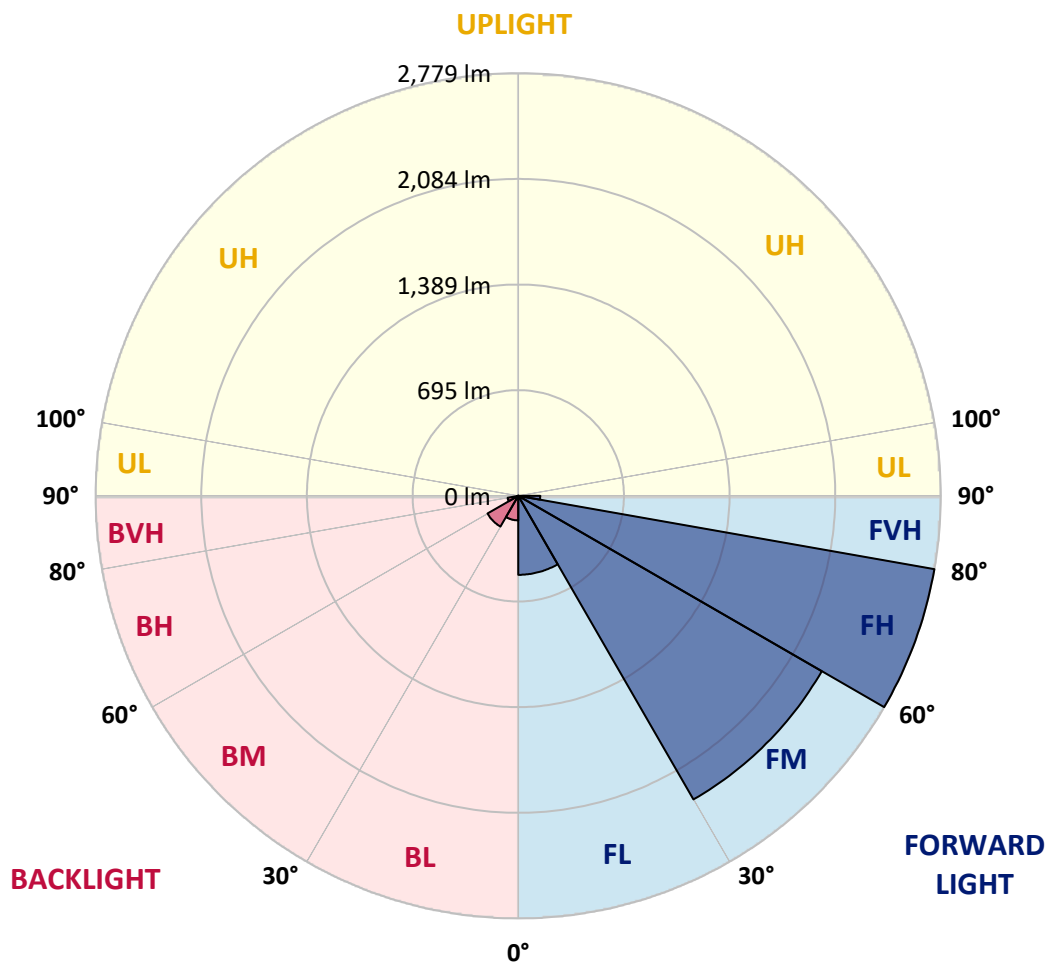
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	519.3	8.4			
FM	(30°-60°)	2305.1	37.1			
FH	(60°-80°)	2778.8	44.7			G2/5000
FVH	(80°-90°)	144.9	2.3			G2/225
BL	(0°-30°)	161.4	2.6	B1/500		
BM	(30°-60°)	233.4	3.8	B1/1000		
BH	(60°-80°)	70.9	1.1	B0/110		G0/110
BVH	(80°-90°)	4.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	45°	55°	65°	75°	85°
0°	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6
2.5°	1125.5	1122.0	1122.0	1115.1	1111.6	1111.6	1097.7	1094.3	1080.4	1066.5	1049.1
5°	1129.0	1129.0	1125.5	1129.0	1125.5	1125.5	1118.6	1115.1	1101.2	1073.4	1042.1
7.5°	1149.8	1146.4	1142.9	1142.9	1135.9	1135.9	1118.6	1111.6	1097.7	1080.4	1035.2
10°	1149.8	1149.8	1156.8	1163.7	1163.7	1163.7	1146.4	1125.5	1104.7	1087.3	1035.2
12.5°	1146.4	1146.4	1156.8	1181.1	1198.5	1201.9	1191.5	1163.7	1129.0	1097.7	1049.1
15°	1142.9	1146.4	1160.3	1195.0	1226.3	1233.2	1229.7	1208.9	1163.7	1118.6	1066.5
17.5°	1149.8	1156.8	1174.2	1222.8	1257.5	1261.0	1264.5	1250.6	1201.9	1146.4	1094.3
20°	1160.3	1163.7	1201.9	1261.0	1295.7	1299.2	1295.7	1274.9	1233.2	1181.1	1125.5
22.5°	1177.6	1184.6	1233.2	1299.2	1337.4	1340.9	1330.5	1295.7	1250.6	1208.9	1160.3
25°	1212.4	1219.3	1278.4	1344.4	1372.2	1379.1	1368.7	1327.0	1267.9	1240.2	1198.5
27.5°	1254.0	1264.5	1327.0	1389.5	1406.9	1413.8	1403.4	1354.8	1292.3	1281.8	1247.1
30°	1316.6	1323.5	1382.6	1434.7	1441.6	1445.1	1438.2	1382.6	1327.0	1327.0	1295.7
32.5°	1393.0	1403.4	1441.6	1479.8	1476.4	1479.8	1476.4	1417.3	1368.7	1396.5	1354.8
35°	1483.3	1472.9	1518.1	1535.4	1521.5	1528.5	1532.0	1472.9	1431.2	1486.8	1434.7
37.5°	1552.8	1552.8	1577.1	1594.5	1584.1	1591.0	1601.4	1545.8	1518.1	1615.3	1556.3
40°	1611.9	1611.9	1629.2	1664.0	1667.4	1681.3	1702.2	1636.2	1636.2	1764.7	1698.7
42.5°	1657.0	1664.0	1677.9	1723.0	1768.2	1792.5	1813.3	1747.3	1778.6	1955.8	1886.3
45°	1702.2	1709.1	1716.1	1782.1	1872.4	1907.1	1948.8	1886.3	1941.9	2157.2	2080.8
47.5°	1757.8	1757.8	1754.3	1858.5	1969.7	2014.8	2087.8	2035.7	2136.4	2403.9	2285.8
50°	1827.2	1820.3	1789.0	1938.4	2087.8	2143.3	2254.5	2202.4	2355.2	2660.9	2438.6
52.5°	1907.1	1889.8	1841.1	2021.8	2216.3	2285.8	2428.2	2393.5	2584.5	2865.9	2525.5
55°	2007.9	1980.1	1914.1	2122.5	2372.6	2442.1	2608.8	2629.7	2803.4	2984.0	2615.8
57.5°	2136.4	2084.3	2011.3	2247.6	2553.3	2619.3	2813.8	2859.0	2949.3	3098.6	2730.4
60°	2264.9	2209.3	2143.3	2417.8	2751.3	2841.6	3032.6	3050.0	3067.4	3258.4	2855.5
62.5°	2379.6	2348.3	2310.1	2608.8	3022.2	3102.1	3220.2	3195.9	3216.8	3446.0	2956.2
65°	2525.5	2494.2	2487.3	2827.7	3279.3	3348.8	3362.7	3373.1	3449.5	3630.1	3008.3
67.5°	2650.5	2640.1	2702.6	3088.2	3512.0	3539.8	3591.9	3651.0	3692.7	3713.5	2660.9
70°	2827.7	2810.3	2949.3	3348.8	3744.8	3803.8	3987.9	4047.0	3758.7	3043.1	1629.2
72.5°	2845.1	2876.3	3255.0	3619.7	4092.2	4220.7	4450.0	4133.8	2921.5	1632.7	507.2
75°	2212.8	2230.2	3362.7	3956.7	4641.0	4724.4	4425.6	3161.2	1306.2	403.0	114.6
77.5°	1233.2	1299.2	2247.6	3671.8	4217.2	4085.2	3025.7	1396.5	337.0	90.3	59.1
80°	903.2	934.5	1083.8	2101.7	2386.5	2098.2	1261.0	531.5	184.1	62.5	41.7
82.5°	267.5	288.3	559.3	677.4	844.1	670.4	378.6	406.4	118.1	45.2	34.7
85°	73.0	76.4	191.1	267.5	243.2	156.3	139.0	350.9	48.6	31.3	27.8
87.5°	34.7	34.7	59.1	118.1	100.7	83.4	114.6	205.0	10.4	10.4	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6	1045.6
2.5°	1038.7	1031.7	1003.9	990.0	976.1	951.8	937.9	927.5	924.0	917.1	920.6
5°	1021.3	997.0	951.8	913.6	868.5	819.8	792.0	760.8	729.5	722.6	719.1
7.5°	1007.4	972.7	903.2	830.2	753.8	670.4	594.0	545.4	496.8	489.8	486.3
10°	1000.5	951.8	851.1	743.4	618.3	503.7	420.3	364.8	330.0	312.6	305.7
12.5°	1000.5	941.4	809.4	656.6	496.8	371.7	288.3	232.7	208.4	198.0	194.5
15°	1007.4	934.5	760.8	555.8	389.1	264.0	201.5	173.7	163.3	159.8	163.3
17.5°	1024.8	934.5	715.6	469.0	295.3	194.5	159.8	156.3	152.8	152.8	152.8
20°	1049.1	941.4	667.0	392.5	218.9	159.8	149.4	149.4	149.4	149.4	149.4
22.5°	1076.9	944.9	611.4	319.6	177.2	145.9	142.4	142.4	142.4	142.4	142.4
25°	1104.7	951.8	552.3	250.1	145.9	139.0	135.5	139.0	139.0	139.0	139.0
27.5°	1139.4	958.8	493.3	198.0	135.5	132.0	132.0	132.0	132.0	132.0	132.0
30°	1170.7	958.8	437.7	163.3	128.5	125.1	125.1	125.1	125.1	125.1	125.1
32.5°	1208.9	955.3	378.6	135.5	121.6	118.1	114.6	118.1	118.1	118.1	114.6
35°	1264.5	955.3	312.6	125.1	114.6	111.2	107.7	107.7	107.7	107.7	107.7
37.5°	1337.4	969.2	246.6	114.6	104.2	100.7	100.7	100.7	97.3	97.3	97.3
40°	1445.1	993.5	198.0	107.7	97.3	93.8	90.3	90.3	86.8	83.4	83.4
42.5°	1573.6	1021.3	163.3	100.7	90.3	86.8	83.4	79.9	76.4	73.0	73.0
45°	1702.2	1042.1	128.5	93.8	83.4	79.9	76.4	73.0	66.0	62.5	59.1
47.5°	1837.6	1042.1	104.2	86.8	79.9	73.0	69.5	62.5	55.6	48.6	48.6
50°	1917.5	1003.9	93.8	79.9	73.0	66.0	62.5	52.1	45.2	38.2	38.2
52.5°	1962.7	951.8	86.8	73.0	69.5	62.5	52.1	45.2	34.7	27.8	27.8
55°	2000.9	927.5	79.9	69.5	62.5	55.6	45.2	34.7	24.3	20.8	20.8
57.5°	2049.6	889.3	73.0	62.5	55.6	48.6	38.2	27.8	17.4	13.9	13.9
60°	2091.2	837.2	66.0	59.1	52.1	41.7	31.3	20.8	10.4	6.9	6.9
62.5°	2112.1	757.3	59.1	52.1	45.2	34.7	24.3	13.9	6.9	3.5	3.5
65°	2053.0	635.7	55.6	45.2	38.2	27.8	17.4	6.9	3.5	0.0	0.0
67.5°	1677.9	409.9	45.2	38.2	31.3	20.8	13.9	6.9	3.5	0.0	0.0
70°	861.5	173.7	38.2	31.3	27.8	17.4	10.4	3.5	0.0	0.0	0.0
72.5°	225.8	62.5	31.3	27.8	24.3	17.4	6.9	3.5	0.0	0.0	0.0
75°	69.5	41.7	24.3	20.8	20.8	13.9	6.9	3.5	0.0	0.0	0.0
77.5°	48.6	31.3	20.8	17.4	17.4	13.9	6.9	3.5	0.0	0.0	0.0
80°	38.2	27.8	17.4	13.9	17.4	17.4	6.9	3.5	0.0	0.0	0.0
82.5°	31.3	24.3	13.9	13.9	17.4	17.4	10.4	3.5	0.0	0.0	0.0
85°	24.3	17.4	13.9	13.9	17.4	13.9	6.9	3.5	0.0	0.0	0.0
87.5°	6.9	6.9	3.5	3.5	3.5	6.9	6.9	3.5	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

(END OF REPORT)