

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: P459655

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-18)
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
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(8) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7736 lumens
Efficiency: N/A
Efficacy: 48.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G3

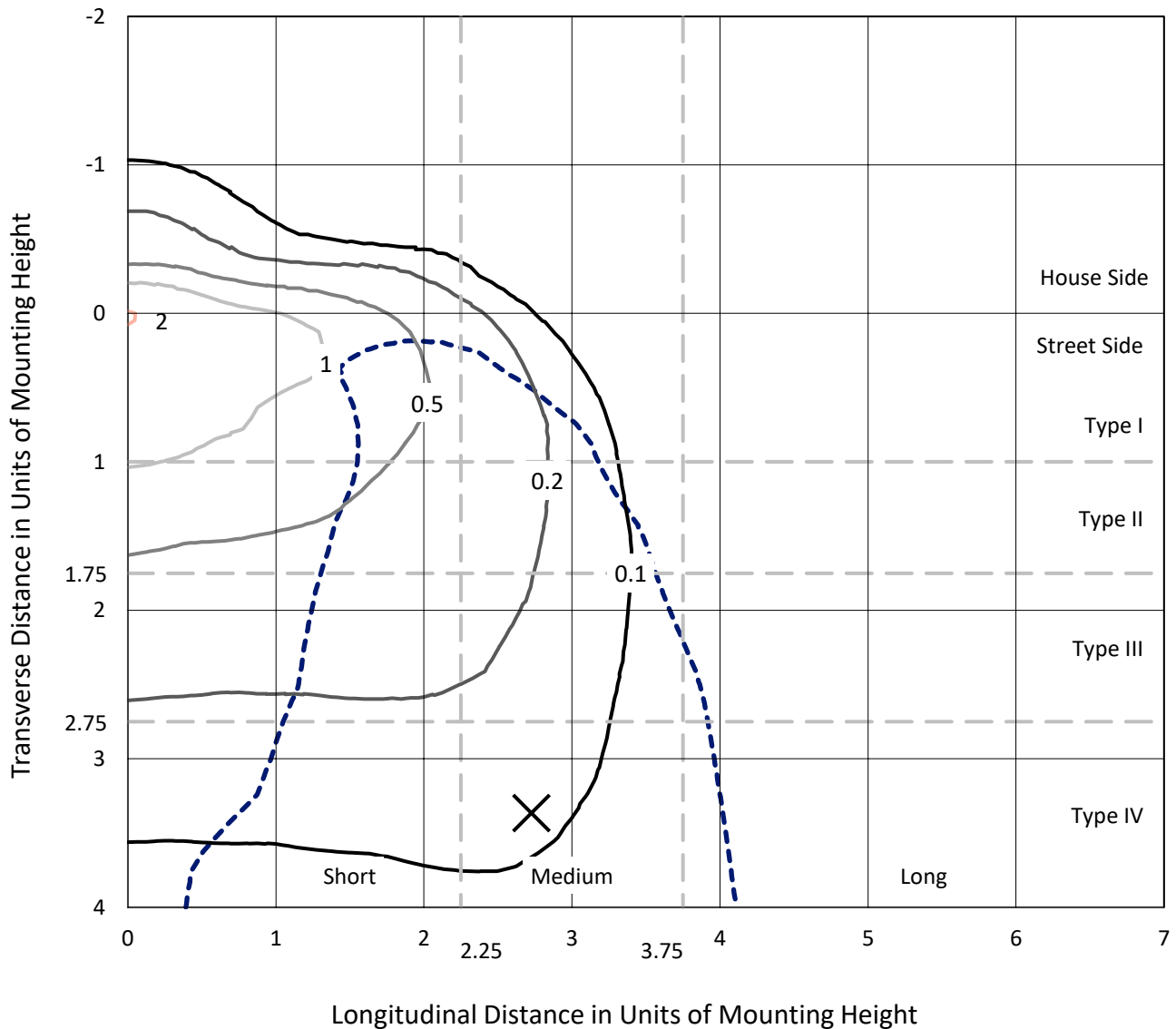
Input Watts (W): 158.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

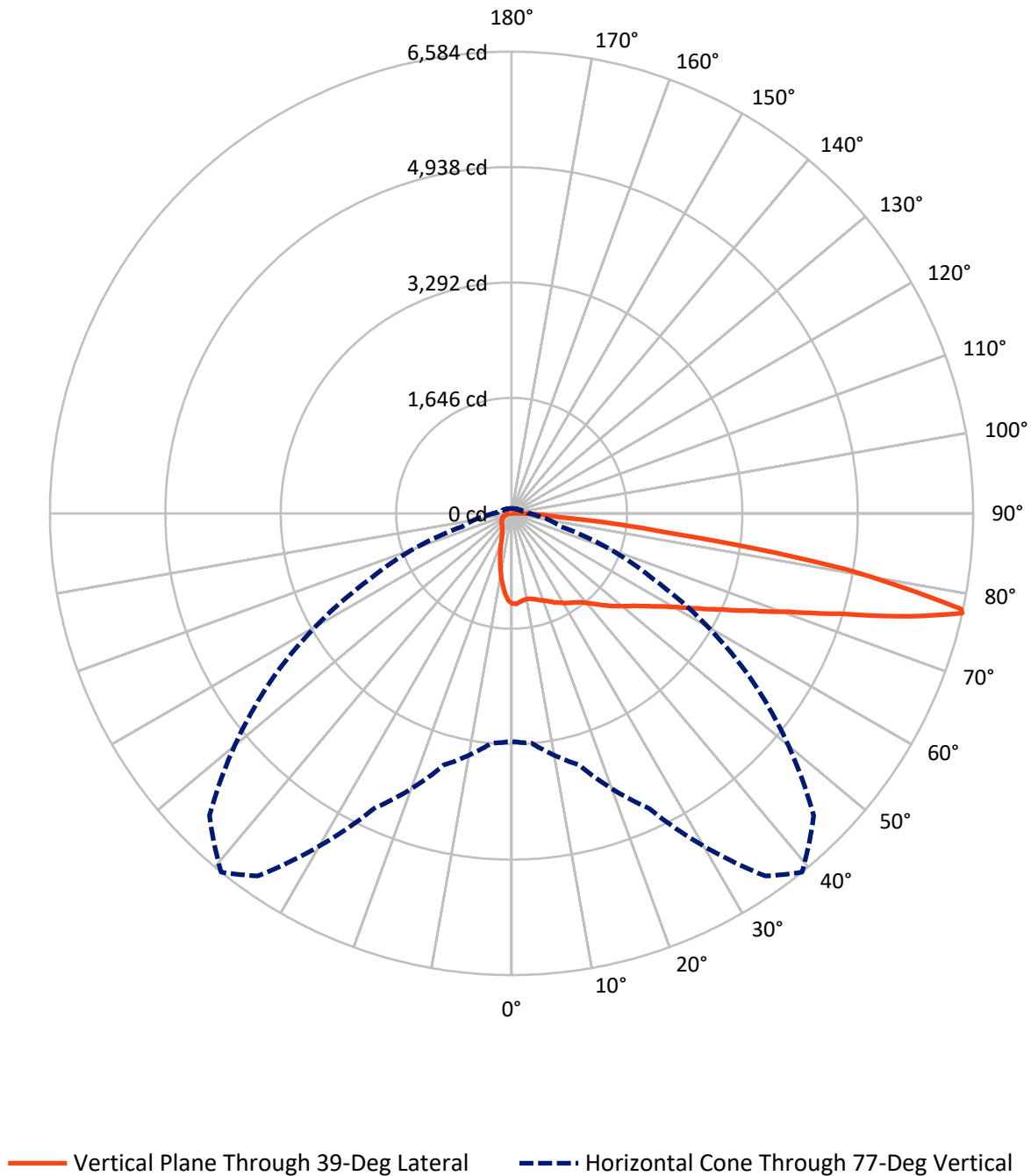
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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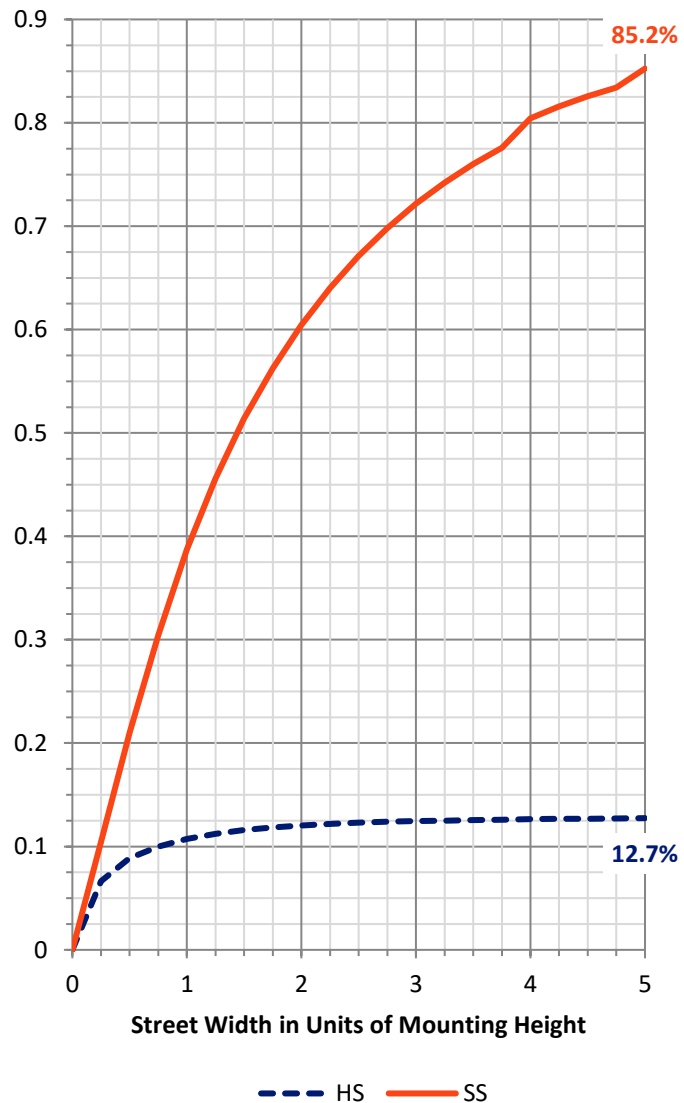
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	998.1	0.0	998.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	6737.9	0.0	6737.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	7736.0	0.0	7736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	1.5
10°-20°	281.7	3.6
20°-30°	430.4	5.6
30°-40°	619.0	8.0
40°-50°	898.7	11.6
50°-60°	1290.0	16.7
60°-70°	1776.7	23.0
70°-80°	1917.1	24.8
80°-90°	410.1	5.3
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°	7736.0	100.0
0°-180°	7736.0	100.0

Coefficient of Utilization



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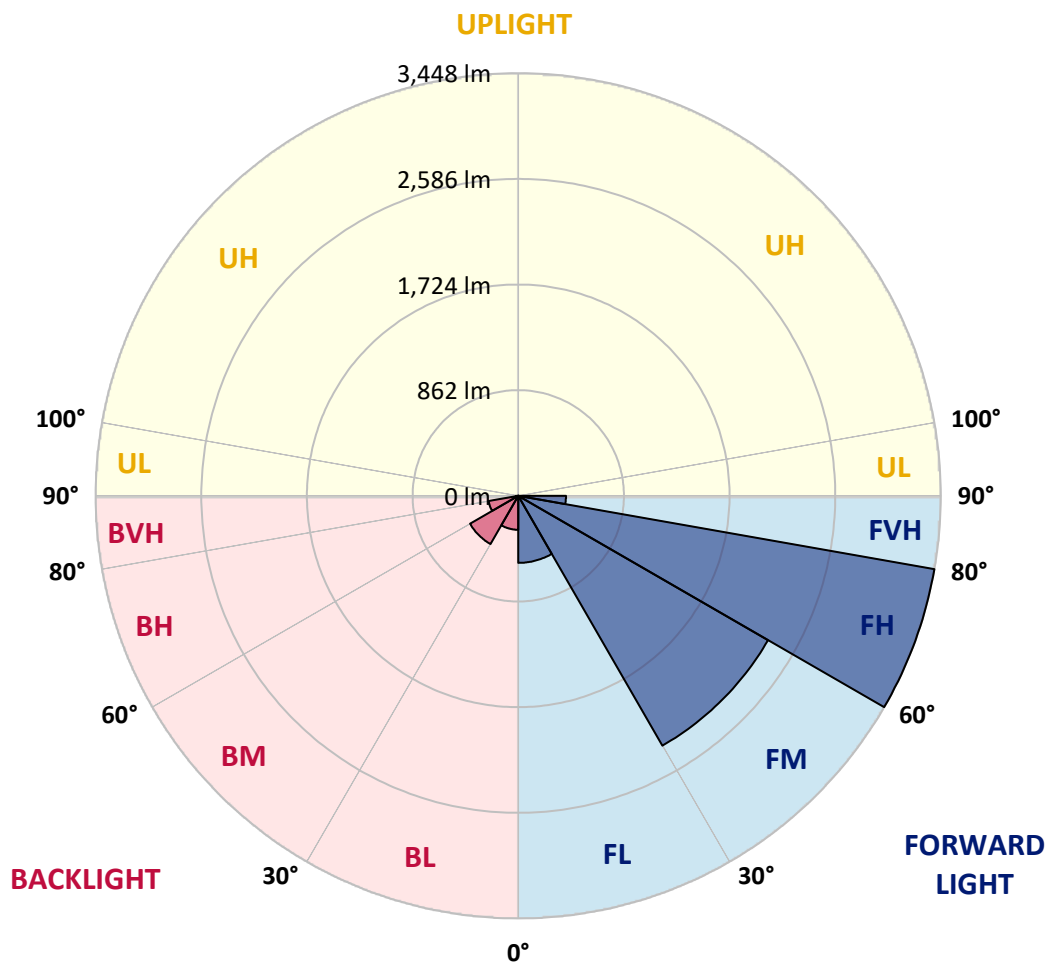
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.1	7.1			
FM	(30°-60°)	2353.5	30.4			
FH	(60°-80°)	3447.8	44.6			G2/5000
FVH	(80°-90°)	389.5	5.0			G3/500
BL	(0°-30°)	277.3	3.6	B1/500		
BM	(30°-60°)	454.2	5.9	B1/1000		
BH	(60°-80°)	245.9	3.2	B1/500		G1/500
BVH	(80°-90°)	20.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5
2.5°	1299.4	1289.0	1289.0	1299.4	1292.5	1292.5	1285.5	1292.5	1285.5	1278.6	1285.5
5°	1282.1	1275.1	1271.6	1282.1	1275.1	1268.2	1275.1	1271.6	1268.2	1254.3	1254.3
7.5°	1250.8	1243.9	1243.9	1254.3	1257.8	1247.3	1250.8	1254.3	1243.9	1230.0	1233.4
10°	1223.0	1219.5	1226.5	1240.4	1247.3	1240.4	1247.3	1243.9	1230.0	1216.1	1212.6
12.5°	1202.2	1198.7	1209.1	1236.9	1250.8	1250.8	1254.3	1243.9	1233.4	1216.1	1202.2
15°	1188.3	1188.3	1209.1	1243.9	1264.7	1271.6	1275.1	1268.2	1243.9	1219.5	1202.2
17.5°	1195.2	1191.7	1219.5	1261.2	1285.5	1302.9	1302.9	1292.5	1261.2	1230.0	1209.1
20°	1212.6	1205.6	1240.4	1292.5	1323.8	1327.2	1334.2	1313.3	1282.1	1247.3	1223.0
22.5°	1219.5	1236.9	1275.1	1334.2	1351.6	1362.0	1362.0	1341.1	1296.0	1271.6	1243.9
25°	1275.1	1278.6	1323.8	1375.9	1393.3	1407.2	1400.2	1355.0	1316.8	1302.9	1278.6
27.5°	1334.2	1337.7	1382.8	1421.0	1431.5	1441.9	1445.4	1382.8	1344.6	1341.1	1309.9
30°	1386.3	1400.2	1445.4	1473.2	1473.2	1483.6	1480.1	1424.5	1382.8	1389.8	1358.5
32.5°	1476.6	1473.2	1518.3	1521.8	1504.4	1521.8	1521.8	1459.3	1431.5	1462.7	1414.1
35°	1553.1	1567.0	1587.8	1570.5	1546.1	1560.0	1567.0	1507.9	1494.0	1556.6	1504.4
37.5°	1657.3	1646.9	1657.3	1626.0	1591.3	1608.7	1626.0	1573.9	1580.9	1671.2	1605.2
40°	1737.2	1719.9	1726.8	1685.1	1650.4	1685.1	1702.5	1653.8	1685.1	1831.0	1751.1
42.5°	1803.2	1789.3	1775.4	1751.1	1723.3	1768.5	1796.3	1758.1	1824.1	2008.2	1931.8
45°	1848.4	1838.0	1817.1	1813.7	1817.1	1872.7	1907.5	1876.2	1966.5	2230.6	2133.3
47.5°	1876.2	1865.8	1869.3	1876.2	1904.0	1977.0	2039.5	2008.2	2154.2	2463.4	2324.4
50°	1914.4	1897.0	1900.5	1959.6	2001.3	2077.7	2178.5	2164.6	2355.7	2710.1	2532.9
52.5°	1963.1	1935.3	1935.3	2039.5	2105.5	2192.4	2320.9	2338.3	2564.1	2963.7	2744.8
55°	2043.0	2008.2	1983.9	2126.4	2241.0	2334.8	2484.2	2560.7	2790.0	3227.8	2939.4
57.5°	2129.8	2095.1	2056.9	2237.5	2390.4	2501.6	2671.9	2783.0	3047.1	3464.0	3078.4
60°	2265.3	2202.8	2164.6	2380.0	2598.9	2713.5	2922.0	3064.5	3318.1	3679.4	3203.4
62.5°	2362.6	2314.0	2303.6	2560.7	2856.0	2988.0	3186.1	3335.5	3568.3	3887.9	3311.1
65°	2463.4	2435.6	2439.1	2755.2	3161.7	3307.7	3523.1	3682.9	3891.4	4079.0	3321.6
67.5°	2605.8	2578.0	2637.1	2991.5	3516.1	3707.2	3926.1	4065.1	4197.1	4110.3	3134.0
70°	2793.5	2758.7	2866.4	3276.4	3957.4	4204.1	4454.2	4603.6	4346.5	4002.6	2532.9
72.5°	2988.0	2963.7	3140.9	3682.9	4575.8	4892.0	5176.9	5093.5	4419.5	3432.8	1650.4
75°	3224.3	3231.2	3516.1	4207.6	5562.6	5864.9	6104.6	5281.2	3731.6	2029.1	628.9
77°	3252.1	3290.3	3714.2	4645.3	6313.1	6584.1	6094.2	4218.0	2244.5	726.2	354.4
77.5°	3137.4	3172.2	3669.0	4707.9	6403.4	6552.8	5903.1	3940.0	1799.8	583.7	312.7
80°	2338.3	2303.6	2845.6	3926.1	5145.7	4839.9	3533.5	1528.8	524.6	302.3	191.1
82.5°	924.2	986.7	1330.7	1935.3	2515.5	2209.7	1323.8	667.1	316.2	163.3	79.9
85°	427.4	458.6	500.3	514.2	649.7	670.6	496.8	618.5	229.3	76.4	48.6
87.5°	312.7	326.6	368.3	326.6	316.2	298.8	364.8	674.0	114.7	45.2	24.3
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°	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5
2.5°	1275.1	1264.7	1268.2	1264.7	1257.8	1250.8	1243.9	1236.9	1240.4	1240.4	1230.0
5°	1247.3	1233.4	1226.5	1209.1	1188.3	1167.4	1143.1	1125.7	1111.8	1104.9	1111.8
7.5°	1219.5	1202.2	1188.3	1146.6	1111.8	1052.8	1014.5	962.4	955.5	948.5	941.6
10°	1198.7	1184.8	1150.0	1094.5	1021.5	952.0	865.1	809.5	774.8	754.0	760.9
12.5°	1184.8	1167.4	1111.8	1025.0	931.2	826.9	729.6	656.7	615.0	587.2	580.2
15°	1181.3	1150.0	1070.1	955.5	830.4	712.3	615.0	528.1	462.1	441.3	434.3
17.5°	1181.3	1139.6	1031.9	882.5	736.6	604.6	496.8	416.9	361.3	340.5	333.5
20°	1188.3	1136.1	986.7	809.5	642.8	496.8	403.0	337.0	305.8	291.9	291.9
22.5°	1198.7	1132.7	938.1	729.6	552.4	416.9	333.5	295.3	281.4	271.0	271.0
25°	1219.5	1129.2	896.4	656.7	472.5	357.9	298.8	274.5	260.6	257.1	257.1
27.5°	1247.3	1132.7	854.7	587.2	399.6	316.2	274.5	260.6	253.6	250.2	250.2
30°	1275.1	1139.6	809.5	510.7	347.4	284.9	257.1	246.7	243.2	239.7	239.7
32.5°	1306.4	1146.6	757.4	448.2	309.2	260.6	243.2	236.3	236.3	232.8	229.3
35°	1358.5	1160.5	698.4	389.1	278.0	243.2	232.8	225.8	225.8	222.4	222.4
37.5°	1431.5	1177.8	639.3	347.4	257.1	229.3	218.9	218.9	215.4	215.4	211.9
40°	1539.2	1226.5	590.7	312.7	239.7	218.9	211.9	208.5	208.5	205.0	205.0
42.5°	1660.8	1285.5	545.5	288.4	229.3	208.5	201.5	201.5	201.5	198.0	194.6
45°	1803.2	1341.1	503.8	271.0	218.9	201.5	194.6	194.6	191.1	187.6	187.6
47.5°	1956.1	1410.6	476.0	260.6	215.4	198.0	191.1	184.1	184.1	180.7	180.7
50°	2109.0	1469.7	451.7	253.6	211.9	191.1	184.1	180.7	177.2	170.2	170.2
52.5°	2254.9	1532.2	444.7	246.7	205.0	187.6	177.2	173.7	170.2	163.3	163.3
55°	2380.0	1605.2	451.7	243.2	201.5	180.7	170.2	166.8	163.3	156.4	156.4
57.5°	2470.3	1643.4	455.2	243.2	198.0	170.2	159.8	163.3	156.4	152.9	152.9
60°	2564.1	1678.2	451.7	243.2	194.6	159.8	149.4	156.4	152.9	149.4	149.4
62.5°	2626.7	1664.3	434.3	243.2	191.1	152.9	142.5	152.9	156.4	149.4	152.9
65°	2536.3	1507.9	382.2	236.3	191.1	145.9	132.0	149.4	159.8	156.4	156.4
67.5°	2209.7	1139.6	319.6	222.4	184.1	142.5	121.6	135.5	149.4	145.9	149.4
70°	1567.0	687.9	264.1	198.0	166.8	135.5	114.7	114.7	118.1	121.6	125.1
72.5°	813.0	375.2	215.4	173.7	145.9	121.6	104.2	97.3	97.3	97.3	100.8
75°	357.9	246.7	177.2	142.5	121.6	104.2	93.8	83.4	83.4	79.9	79.9
77°	250.2	194.6	145.9	118.1	100.8	86.9	83.4	73.0	73.0	69.5	69.5
77.5°	225.8	180.7	142.5	111.2	97.3	83.4	79.9	69.5	69.5	69.5	69.5
80°	152.9	142.5	107.7	83.4	76.4	66.0	62.5	59.1	55.6	55.6	55.6
82.5°	90.3	104.2	76.4	59.1	55.6	48.6	45.2	45.2	45.2	41.7	38.2
85°	55.6	76.4	48.6	38.2	38.2	31.3	31.3	27.8	27.8	24.3	24.3
87.5°	24.3	48.6	27.8	17.4	13.9	10.4	13.9	10.4	10.4	6.9	10.4
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)