

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: P459653

Luminaire Tested: **GAN-SA8A-AMB-U-SL3**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-AMB-U-SL3
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(8) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8129 lumens
Efficiency: N/A
Efficacy: 51.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

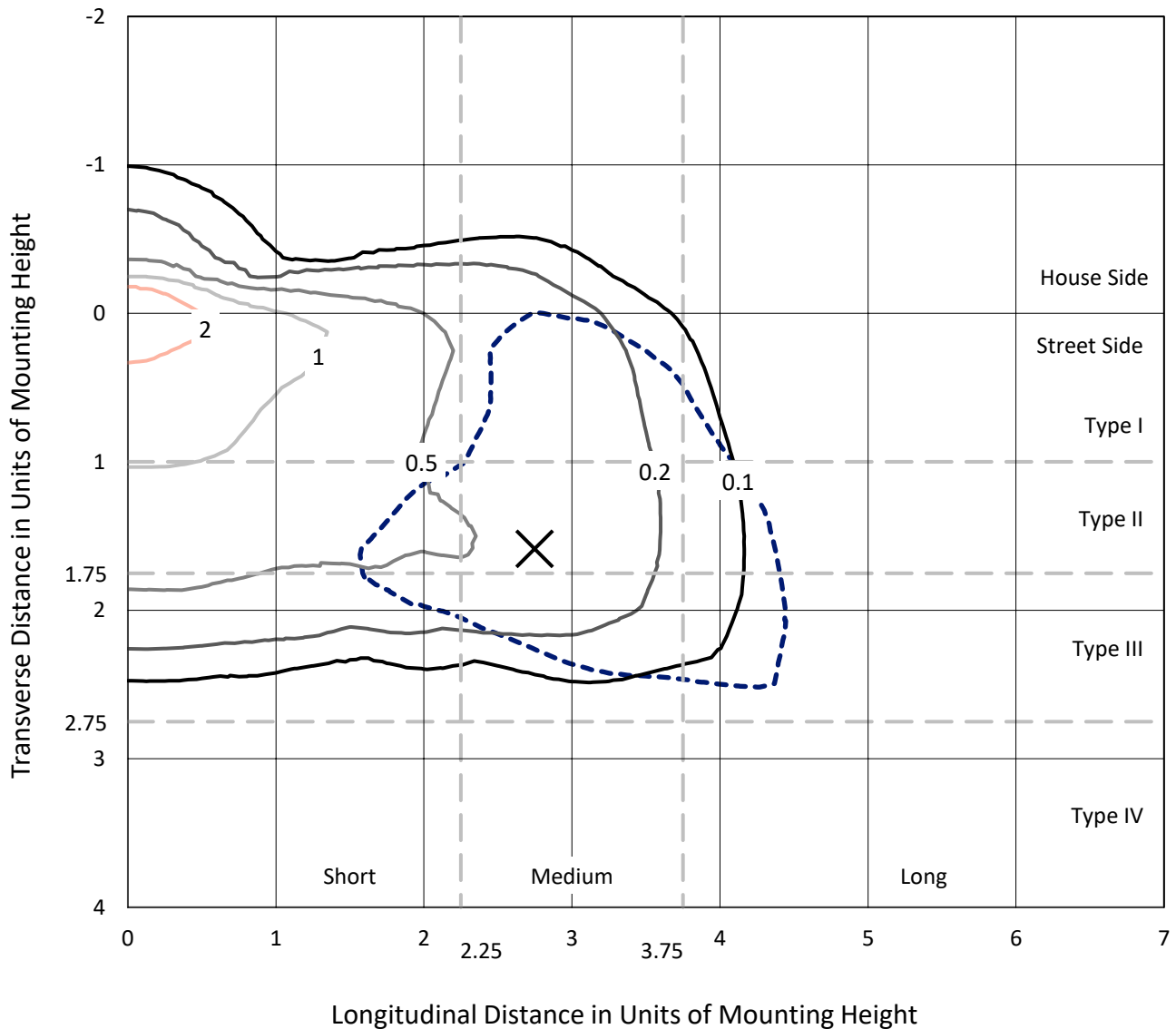
Input Watts (W): 158.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

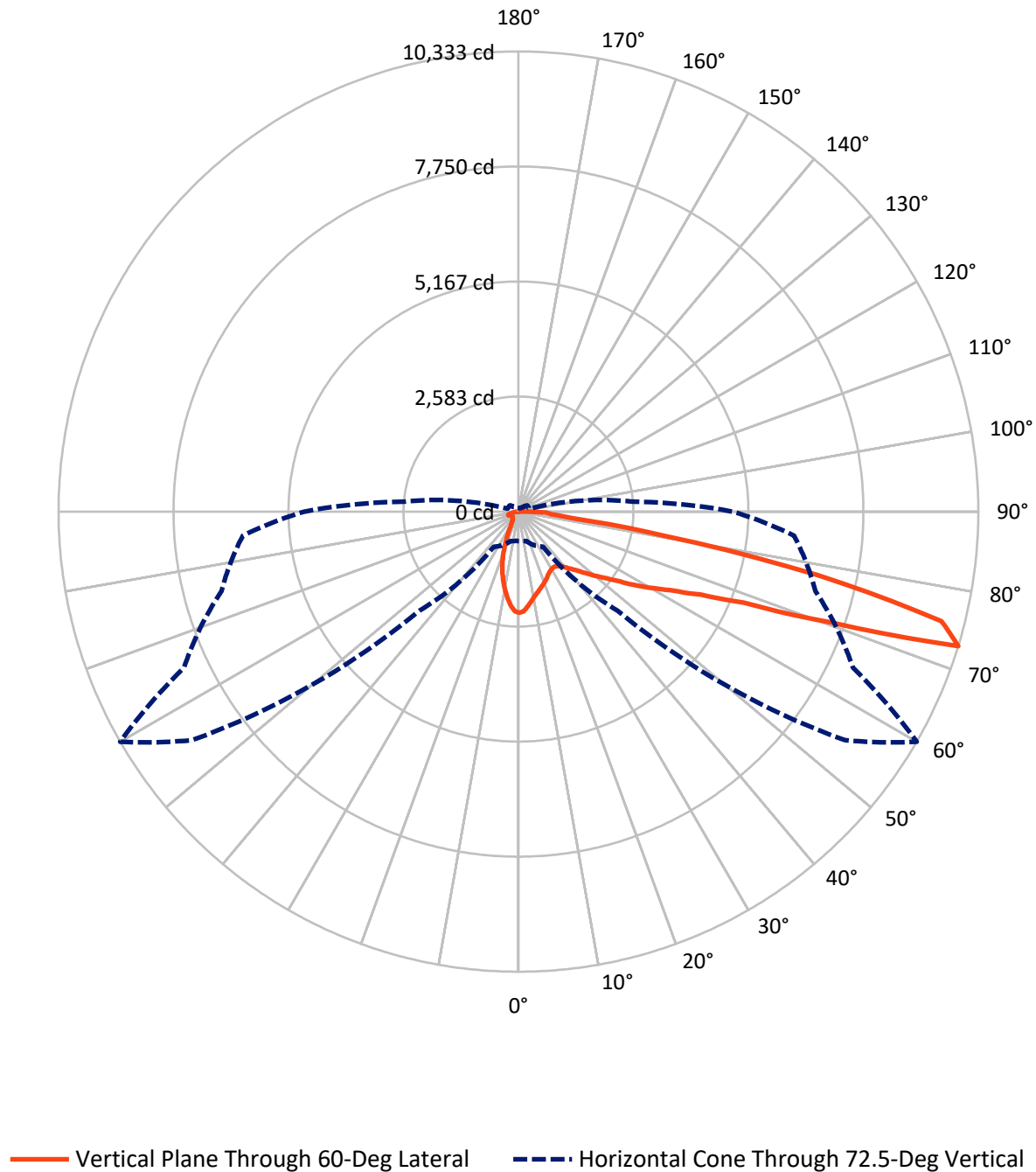
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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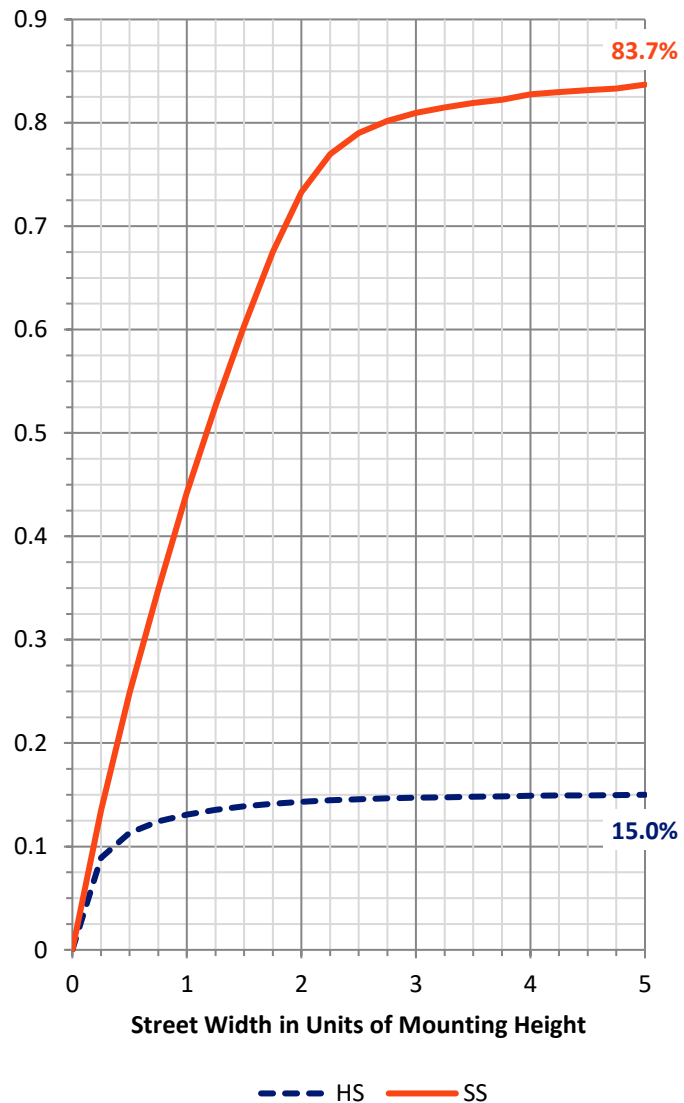
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1235.2	0.0	1235.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	6893.8	0.0	6893.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	8129.0	0.0	8129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	2.3
10°-20°	404.9	5.0
20°-30°	500.6	6.2
30°-40°	632.9	7.8
40°-50°	898.9	11.1
50°-60°	1370.2	16.9
60°-70°	2066.8	25.4
70°-80°	1818.3	22.4
80°-90°	245.6	3.0
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°	8129.0	100.0
0°-180°	8129.0	100.0

Coefficient of Utilization



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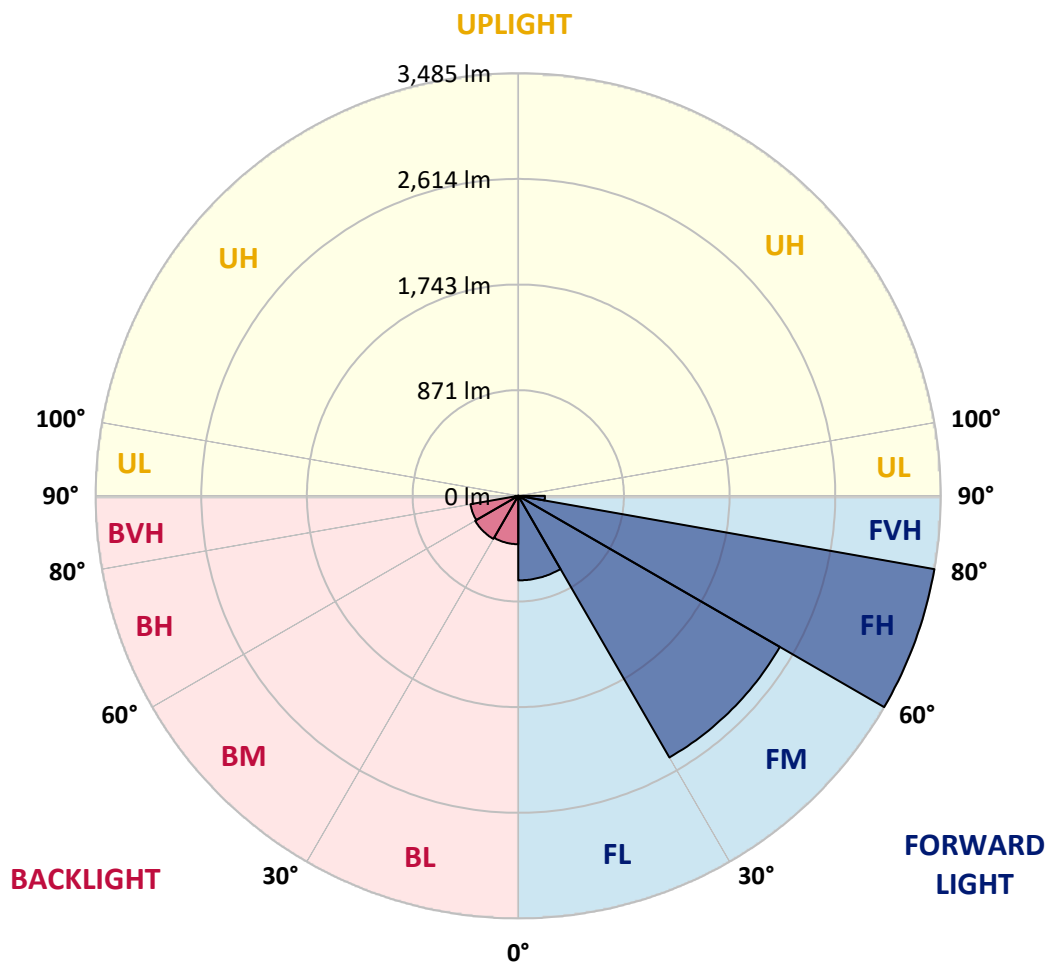
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	697.4	8.6			
FM	(30°-60°)	2491.5	30.6			
FH	(60°-80°)	3485.0	42.9			G2/5000
FVH	(80°-90°)	219.9	2.7			G2/225
BL	(0°-30°)	399.0	4.9	B1/500		
BM	(30°-60°)	410.5	5.0	B1/1000		
BH	(60°-80°)	400.1	4.9	B1/500		G1/500
BVH	(80°-90°)	25.6	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4
2.5°	2209.8	2209.8	2209.8	2223.7	2227.2	2227.2	2241.1	2241.1	2237.6	2251.5	2248.0
5°	2074.3	2081.3	2081.3	2088.2	2109.1	2119.5	2140.3	2143.8	2154.2	2175.1	2189.0
7.5°	1907.5	1918.0	1935.3	1963.1	1984.0	2001.3	2039.6	2039.6	2056.9	2088.2	2112.5
10°	1751.2	1754.7	1768.6	1799.8	1841.5	1886.7	1931.9	1945.8	1966.6	2004.8	2043.0
12.5°	1643.5	1650.4	1657.4	1685.2	1730.3	1775.5	1845.0	1872.8	1897.1	1942.3	1994.4
15°	1528.8	1532.3	1549.7	1584.4	1640.0	1688.6	1768.6	1806.8	1845.0	1904.1	1959.7
17.5°	1452.4	1448.9	1462.8	1487.1	1546.2	1612.2	1699.1	1744.2	1789.4	1869.3	1928.4
20°	1410.7	1414.1	1414.1	1421.1	1459.3	1525.3	1626.1	1685.2	1744.2	1848.5	1911.0
22.5°	1400.2	1400.2	1389.8	1386.4	1403.7	1459.3	1560.1	1626.1	1695.6	1845.0	1900.6
25°	1400.2	1400.2	1389.8	1375.9	1375.9	1407.2	1497.5	1560.1	1643.5	1848.5	1886.7
27.5°	1424.6	1424.6	1410.7	1389.8	1372.5	1379.4	1448.9	1514.9	1608.7	1855.4	1876.3
30°	1462.8	1459.3	1448.9	1431.5	1396.8	1372.5	1424.6	1483.6	1574.0	1872.8	1869.3
32.5°	1501.0	1504.5	1497.5	1483.6	1445.4	1393.3	1421.1	1476.7	1567.0	1897.1	1869.3
35°	1560.1	1563.6	1563.6	1549.7	1518.4	1445.4	1455.8	1504.5	1587.9	1935.3	1883.2
37.5°	1626.1	1626.1	1636.5	1636.5	1598.3	1518.4	1521.9	1560.1	1629.6	1987.5	1918.0
40°	1692.1	1692.1	1709.5	1733.8	1702.5	1619.1	1622.6	1650.4	1713.0	2060.4	1987.5
42.5°	1775.5	1768.6	1806.8	1838.0	1824.1	1747.7	1730.3	1765.1	1810.2	2161.2	2091.7
45°	1834.6	1834.6	1893.6	1931.9	1963.1	1886.7	1876.3	1904.1	1949.2	2272.4	2237.6
47.5°	1904.1	1907.5	1970.1	2050.0	2098.6	2053.5	2039.6	2077.8	2109.1	2418.3	2421.8
50°	1963.1	1973.6	2056.9	2171.6	2251.5	2255.0	2230.7	2279.3	2279.3	2581.6	2637.2
52.5°	2043.0	2060.4	2168.1	2293.2	2425.2	2470.4	2477.4	2491.3	2494.7	2783.1	2876.9
55°	2244.6	2265.4	2355.8	2460.0	2616.3	2720.6	2793.5	2769.2	2741.4	3002.0	3127.1
57.5°	2602.4	2585.1	2619.8	2644.1	2797.0	2967.3	3148.0	3137.5	3054.1	3255.7	3394.6
60°	2911.7	2918.6	2963.8	2904.7	3005.5	3273.0	3485.0	3488.5	3346.0	3526.7	3641.3
62.5°	2939.5	2984.7	3175.8	3307.8	3460.7	3627.4	3950.6	3905.4	3721.3	3790.8	3929.7
65°	2394.0	2453.0	2765.8	3196.6	3985.3	4694.1	4520.4	4499.6	4179.9	4159.1	4336.3
67.5°	1233.5	1278.6	1445.4	2241.1	3585.8	5795.6	5910.2	5462.0	4812.3	4721.9	4937.4
70°	844.3	847.8	847.8	1021.5	1751.2	5312.6	8408.4	7459.9	6070.1	5660.1	5931.1
72.5°	660.2	660.2	684.5	833.9	962.5	3151.4	8950.5	10333.4	8290.3	6907.4	6216.0
75°	493.4	496.9	542.0	694.9	938.1	941.6	7487.7	9815.6	9364.0	6813.6	4829.6
77.5°	375.3	368.3	427.4	573.3	913.8	858.2	4040.9	6858.8	6629.5	4631.6	1751.2
80°	236.3	246.7	288.4	479.5	875.6	858.2	1414.1	3346.0	2678.9	1108.4	295.3
82.5°	135.5	142.5	180.7	298.8	785.3	854.7	882.5	1212.6	663.6	274.5	139.0
85°	79.9	79.9	114.7	187.6	569.8	844.3	858.2	729.7	368.3	142.5	73.0
87.5°	34.7	41.7	66.0	90.3	257.1	712.3	778.3	618.5	267.5	79.9	38.2
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°	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4
2.5°	2244.6	2244.6	2237.6	2237.6	2241.1	2223.7	2220.2	2209.8	2216.8	2213.3	2199.4
5°	2185.5	2182.0	2175.1	2136.9	2116.0	2063.9	2063.9	2032.6	2022.2	2022.2	2001.3
7.5°	2112.5	2102.1	2056.9	1994.4	1935.3	1879.7	1827.6	1789.4	1761.6	1737.3	1740.8
10°	2043.0	2022.2	1949.2	1841.5	1747.7	1643.5	1563.6	1473.2	1424.6	1355.1	1382.9
12.5°	1987.5	1956.2	1838.0	1685.2	1546.2	1393.3	1233.5	1098.0	986.8	917.3	875.6
15°	1942.3	1890.2	1716.4	1525.3	1337.7	1115.3	899.9	715.8	576.8	535.1	538.6
17.5°	1900.6	1827.6	1608.7	1362.0	1108.4	837.4	590.7	469.1	423.9	403.0	403.0
20°	1862.4	1754.7	1469.7	1181.4	854.7	562.9	423.9	382.2	364.8	354.4	350.9
22.5°	1813.7	1688.6	1334.2	993.7	611.5	406.5	350.9	330.1	326.6	326.6	326.6
25°	1775.5	1608.7	1191.8	760.9	423.9	330.1	302.3	298.8	302.3	305.8	305.8
27.5°	1730.3	1528.8	1049.3	535.1	323.1	278.0	267.5	274.5	281.4	288.4	288.4
30°	1688.6	1452.4	896.4	375.3	267.5	243.2	243.2	250.2	260.6	267.5	267.5
32.5°	1660.8	1396.8	715.8	295.3	236.3	222.4	225.8	229.3	239.7	243.2	243.2
35°	1640.0	1341.2	538.6	250.2	215.4	208.5	211.9	215.4	218.9	222.4	222.4
37.5°	1643.5	1309.9	385.7	222.4	201.5	198.1	201.5	201.5	201.5	205.0	205.0
40°	1685.2	1296.0	305.8	205.0	194.6	191.1	191.1	187.6	187.6	191.1	191.1
42.5°	1747.7	1299.5	271.0	198.1	187.6	184.2	180.7	177.2	177.2	177.2	177.2
45°	1848.5	1334.2	250.2	191.1	184.2	177.2	170.3	166.8	166.8	173.7	173.7
47.5°	1997.9	1386.4	229.3	187.6	177.2	166.8	163.3	159.8	163.3	166.8	170.3
50°	2171.6	1431.5	218.9	184.2	177.2	159.8	156.4	152.9	156.4	166.8	166.8
52.5°	2373.1	1497.5	215.4	184.2	173.7	156.4	149.4	149.4	152.9	163.3	163.3
55°	2599.0	1598.3	218.9	184.2	170.3	152.9	145.9	142.5	149.4	156.4	156.4
57.5°	2835.2	1733.8	225.8	184.2	163.3	152.9	142.5	135.5	139.0	145.9	145.9
60°	3071.5	1918.0	236.3	180.7	159.8	149.4	139.0	128.6	128.6	135.5	135.5
62.5°	3353.0	2147.3	271.0	187.6	159.8	142.5	128.6	118.1	118.1	121.6	121.6
65°	3721.3	2480.8	323.1	211.9	173.7	135.5	118.1	107.7	107.7	107.7	107.7
67.5°	4329.3	3012.4	344.0	236.3	198.1	135.5	111.2	100.8	97.3	97.3	93.8
70°	5121.5	3359.9	305.8	246.7	236.3	139.0	104.2	90.3	86.9	86.9	83.4
72.5°	4808.8	2560.8	260.6	239.7	239.7	142.5	100.8	86.9	79.9	76.4	76.4
75°	3304.3	1188.3	229.3	222.4	208.5	121.6	93.8	79.9	73.0	66.0	66.0
77.5°	972.9	319.7	191.1	194.6	159.8	100.8	86.9	73.0	66.0	59.1	59.1
80°	229.3	184.2	139.0	142.5	107.7	76.4	69.5	66.0	59.1	52.1	52.1
82.5°	132.0	118.1	97.3	90.3	66.0	52.1	55.6	55.6	52.1	45.2	41.7
85°	66.0	69.5	59.1	52.1	41.7	34.7	34.7	38.2	34.7	27.8	27.8
87.5°	38.2	34.7	38.2	27.8	20.8	17.4	20.8	20.8	20.8	13.9	13.9
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)