

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: P386386

Luminaire Tested: **GWC-SA2A-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2A-735-U-SL3-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7805.4 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

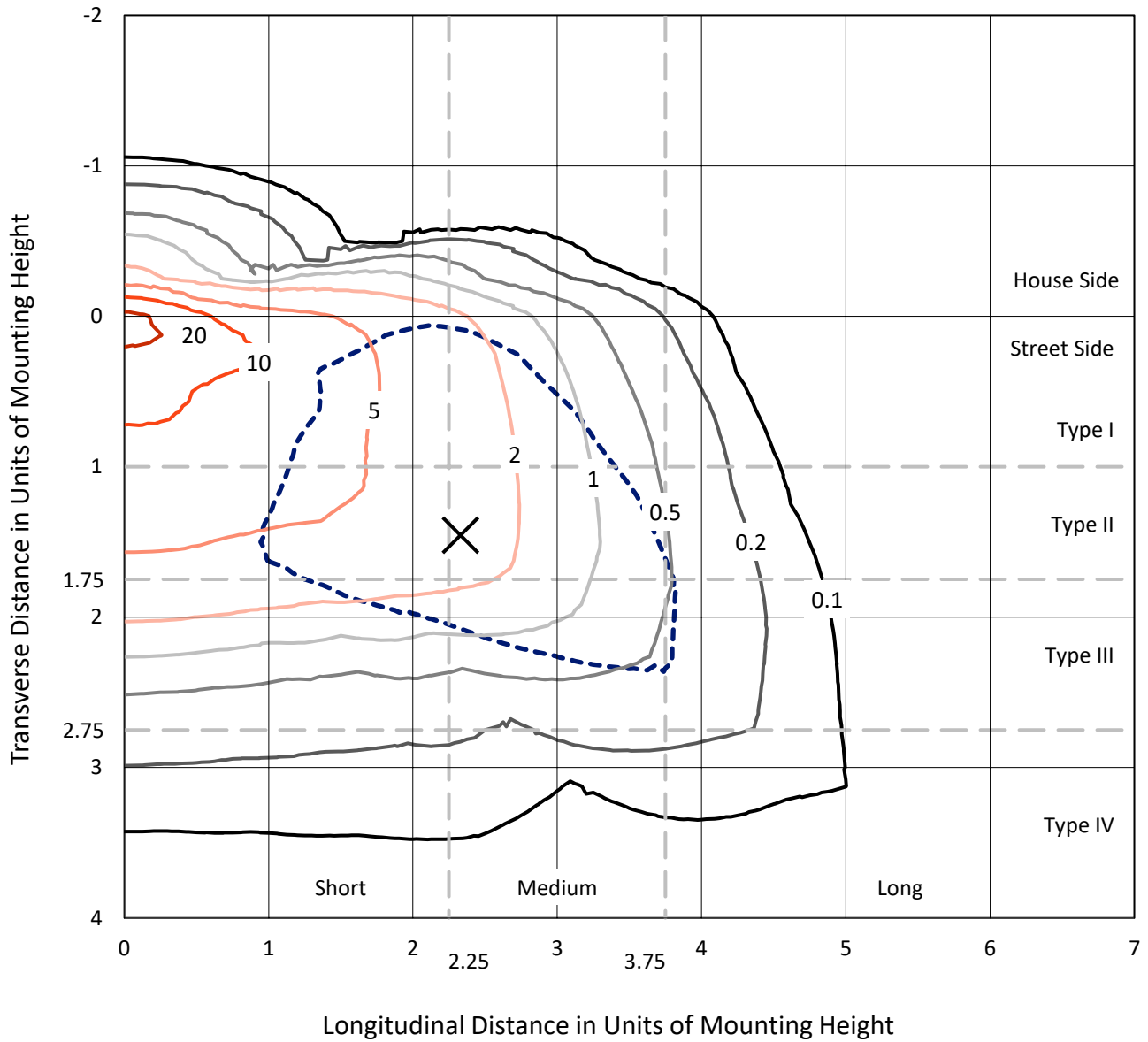
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

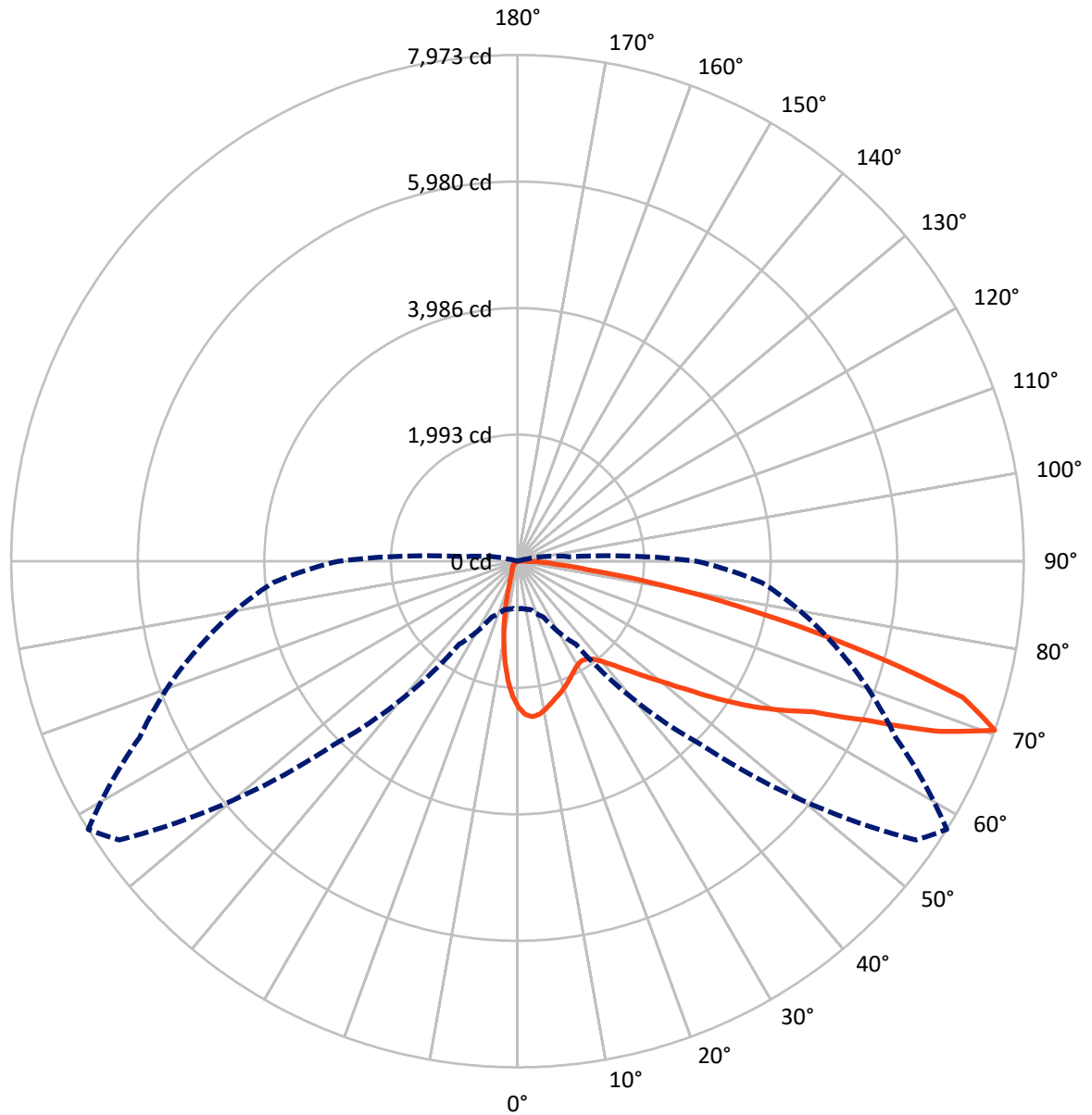
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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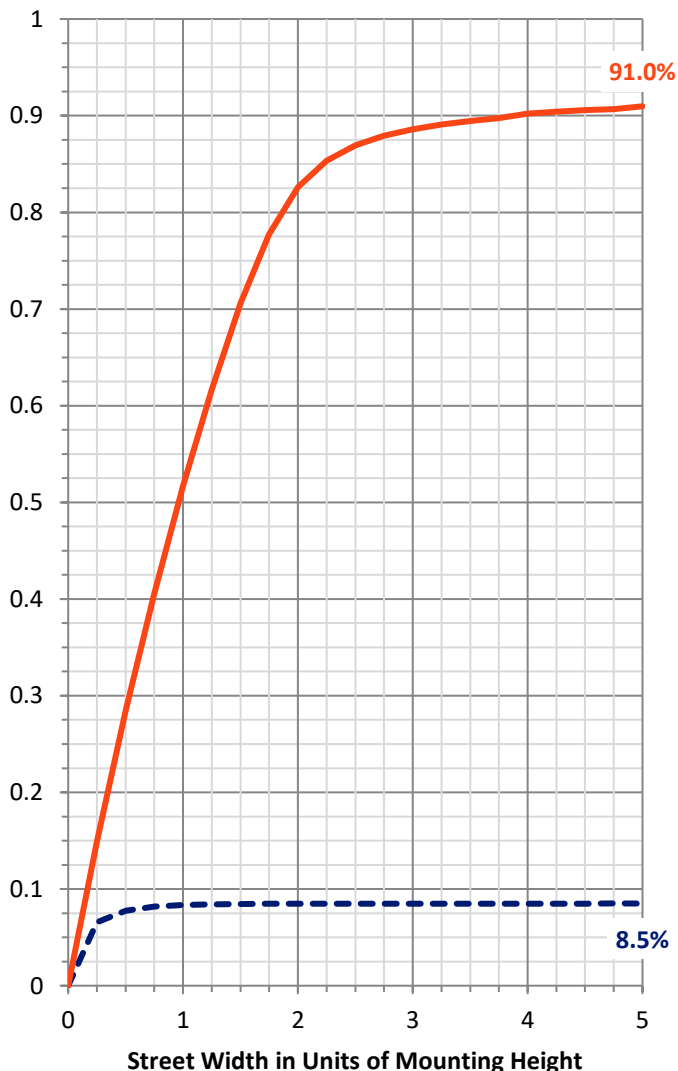
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	668.0	0.0	668.0
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	7137.4	0.0	7137.4
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	7805.4	0.0	7805.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.5	2.4
10°-20°	395.7	5.1
20°-30°	520.2	6.7
30°-40°	689.0	8.8
40°-50°	1029.8	13.2
50°-60°	1649.7	21.1
60°-70°	2079.5	26.6
70°-80°	1121.7	14.4
80°-90°	131.3	1.7
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°	7805.4	100.0
0°-180°	7805.4	100.0

**Coefficient of Utilization**



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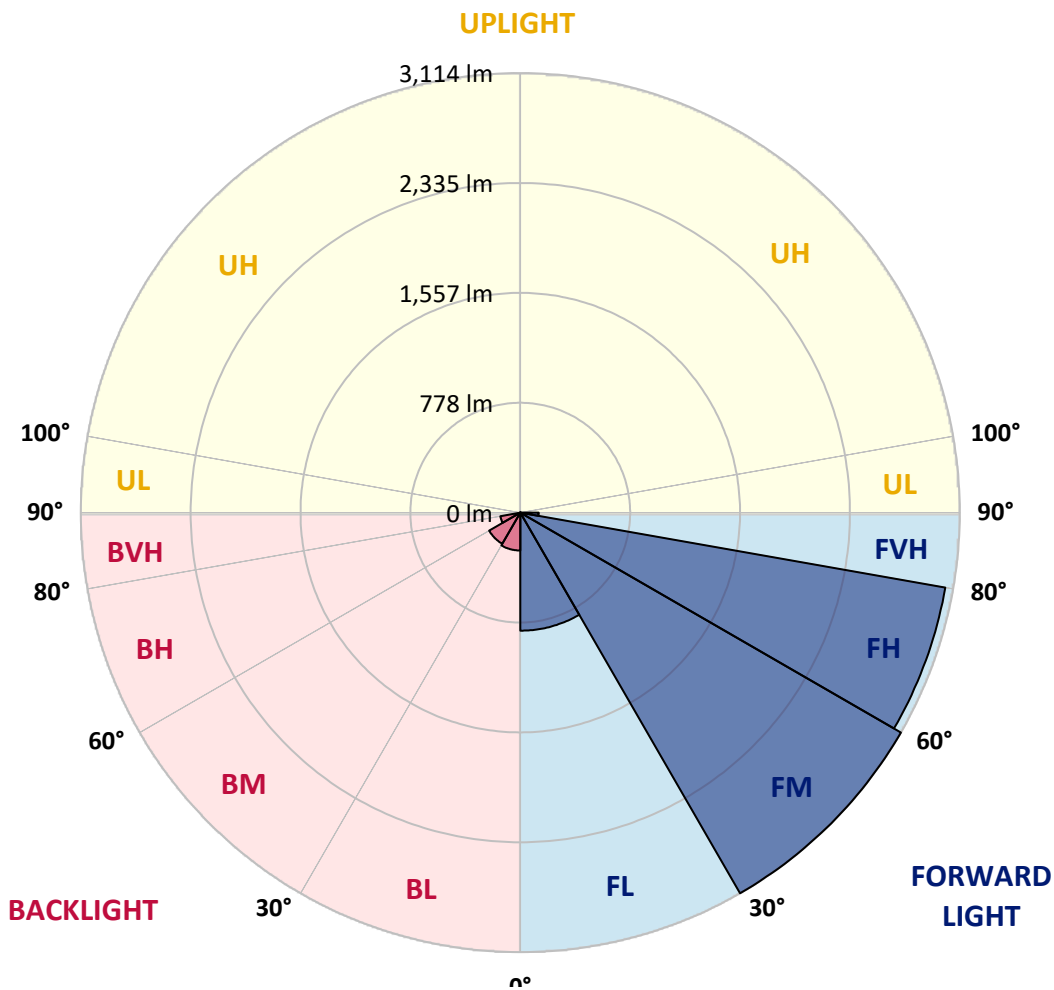
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.1	10.7			
FM (30°-60°)	3113.7	39.9			
FH (60°-80°)	3057.5	39.2			G2/5000
FVH (80°-90°)	130.2	1.7			G2/225
BL (0°-30°)	268.4	3.4	B1/500		
BM (30°-60°)	254.8	3.3	B1/1000		
BH (60°-80°)	143.7	1.8	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6
2.5°	2496.8	2490.7	2488.5	2484.5	2469.6	2455.0	2426.1	2418.0	2399.8	2356.7	2310.9
5°	2498.8	2498.5	2505.3	2503.7	2498.5	2491.6	2470.9	2460.2	2429.4	2367.6	2283.9
7.5°	2378.4	2384.6	2399.8	2412.2	2426.5	2445.0	2447.5	2437.2	2411.8	2345.3	2234.3
10°	2216.8	2226.5	2247.9	2272.3	2309.6	2346.6	2379.7	2378.4	2369.6	2304.1	2174.6
12.5°	2054.8	2066.2	2090.8	2126.9	2179.8	2240.1	2299.2	2307.3	2321.9	2267.0	2119.4
15°	1913.0	1922.7	1947.1	1991.1	2056.7	2137.9	2224.6	2239.5	2277.1	2238.2	2073.3
17.5°	1792.6	1798.8	1816.6	1865.5	1941.5	2039.9	2152.5	2181.7	2237.8	2215.5	2033.4
20°	1708.5	1709.5	1721.2	1755.5	1831.5	1941.5	2077.8	2119.7	2196.3	2196.0	1992.2
22.5°	1667.0	1663.7	1666.0	1685.7	1741.6	1847.7	2003.2	2052.9	2159.0	2179.4	1950.3
25°	1659.2	1656.5	1650.0	1652.7	1686.4	1765.6	1927.9	1985.3	2126.2	2169.3	1913.9
27.5°	1683.5	1686.1	1675.0	1663.4	1666.0	1712.4	1861.0	1927.5	2099.5	2169.3	1888.3
30°	1732.5	1733.8	1725.7	1710.4	1690.0	1697.5	1814.6	1881.1	2086.3	2184.3	1872.0
32.5°	1786.7	1793.9	1792.8	1780.5	1751.3	1721.2	1803.5	1864.3	2085.3	2217.4	1870.4
35°	1853.9	1862.0	1875.7	1873.1	1842.5	1792.8	1841.2	1888.9	2104.4	2271.9	1888.0
37.5°	1925.3	1937.6	1966.8	1980.8	1961.0	1904.8	1925.7	1959.7	2155.7	2360.2	1932.4
40°	1994.4	2008.4	2061.6	2116.5	2101.5	2043.7	2053.5	2080.8	2246.9	2487.1	2016.8
42.5°	2062.3	2083.0	2161.3	2251.4	2269.3	2223.3	2228.4	2250.2	2382.3	2661.8	2154.8
45°	2143.4	2166.8	2282.6	2394.0	2441.7	2421.6	2443.6	2457.9	2559.2	2892.5	2340.8
47.5°	2262.5	2289.5	2431.6	2558.5	2642.2	2655.2	2699.7	2709.1	2782.8	3161.2	2583.1
50°	2494.9	2502.4	2630.9	2746.1	2866.8	2944.7	2995.4	3002.5	3053.5	3455.0	2886.0
52.5°	2787.4	2792.2	2864.9	2942.2	3079.4	3238.5	3356.9	3367.0	3377.7	3741.2	3184.9
55°	3077.8	3077.2	3125.2	3170.6	3327.7	3558.8	3815.9	3822.0	3745.1	4012.9	3413.4
57.5°	3259.2	3276.8	3349.8	3408.2	3627.7	3923.9	4280.6	4303.4	4131.0	4214.1	3639.3
60°	3201.5	3209.9	3371.9	3588.0	4001.2	4443.0	4750.9	4756.8	4421.2	4415.1	3924.9
62.5°	2727.6	2732.1	2986.6	3432.3	4190.4	5116.0	5318.3	5223.1	4754.8	4693.8	4266.7
65°	1869.5	1899.0	2111.6	2662.3	3842.8	5538.3	6196.5	6039.1	5263.4	5095.6	4575.7
67.5°	1100.9	1094.8	1199.9	1605.6	2822.4	5257.9	7307.5	7151.0	5957.0	5364.7	4485.1
70°	752.0	747.8	788.1	972.1	1593.3	4078.8	7657.1	7972.8	6569.5	5183.6	3860.0
72.5°	536.9	539.1	598.5	755.3	1000.3	2376.5	6584.7	7332.2	6377.6	4518.9	2934.0
75°	364.5	370.7	455.7	619.6	876.9	1209.0	4672.7	5573.7	5193.3	3284.2	1686.4
77.5°	196.1	202.8	303.1	499.2	792.9	840.0	3005.8	3836.0	3262.1	1476.4	488.8
80°	81.8	85.7	141.8	362.9	685.2	737.7	1768.5	2326.1	1390.1	291.1	109.1
82.5°	35.4	37.3	59.1	216.4	512.2	622.8	936.4	1119.1	421.3	64.0	54.9
85°	6.9	7.1	24.3	114.6	326.8	351.5	606.9	594.9	189.2	27.6	39.9
87.5°	0.0	0.0	5.8	36.1	96.1	191.4	370.3	365.8	64.3	13.3	14.9
90°	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6	2305.6
2.5°	2287.5	2265.2	2218.1	2159.9	2115.5	2066.5	2027.5	1978.2	1956.8	1957.8	1946.0
5°	2236.2	2190.1	2085.9	1954.5	1853.2	1748.8	1658.9	1569.3	1516.4	1499.2	1482.9
7.5°	2162.9	2089.9	1923.7	1721.2	1549.8	1382.3	1236.6	1108.4	1027.2	987.7	973.0
10°	2080.1	1977.5	1737.0	1470.2	1225.5	999.0	810.1	645.8	580.4	535.8	524.5
12.5°	2007.4	1868.5	1554.6	1212.9	922.4	649.1	468.9	366.7	322.3	304.7	301.8
15°	1938.9	1766.6	1379.0	979.9	638.7	399.5	298.3	263.5	253.2	250.3	250.3
17.5°	1874.4	1669.6	1207.4	750.4	422.5	280.1	247.0	239.2	236.0	235.6	236.0
20°	1806.8	1572.5	1038.6	549.8	295.1	237.3	228.2	224.0	223.0	223.0	223.0
22.5°	1742.2	1475.4	874.4	392.8	236.6	216.4	211.9	209.0	208.1	207.7	207.0
25°	1680.3	1383.3	714.0	277.5	207.7	198.3	194.5	190.5	187.6	186.0	185.0
27.5°	1629.3	1301.2	564.8	222.6	187.6	179.5	174.6	168.8	161.7	158.4	157.1
30°	1588.7	1226.2	435.2	187.9	168.8	160.6	153.2	143.2	132.7	127.2	126.9
32.5°	1557.0	1152.5	330.4	166.2	151.9	141.8	131.1	118.5	106.4	100.3	100.0
35°	1541.4	1087.6	252.5	150.3	137.0	124.3	111.0	97.0	85.4	79.5	78.9
37.5°	1551.7	1032.8	197.0	137.0	124.3	109.7	94.1	79.5	69.1	64.0	63.6
40°	1589.7	997.7	160.0	125.6	113.6	95.7	78.9	65.2	56.5	52.2	51.9
42.5°	1670.5	984.8	136.7	116.2	103.2	82.8	65.6	53.9	45.7	42.8	42.2
45°	1805.5	1003.8	120.7	107.1	92.5	70.5	54.2	44.2	37.0	34.8	34.4
47.5°	1985.3	1054.2	109.3	98.4	82.8	59.4	45.1	35.7	30.2	27.9	27.6
50°	2217.1	1134.0	100.0	89.6	73.6	50.4	37.3	28.3	23.4	21.7	21.7
52.5°	2469.3	1229.1	91.5	81.4	64.6	41.9	30.2	21.7	18.5	16.5	16.5
55°	2677.6	1312.2	82.5	75.3	53.5	34.8	23.0	16.5	13.6	12.7	12.7
57.5°	2885.6	1400.8	72.1	64.6	42.8	28.3	17.6	12.3	10.1	9.4	9.4
60°	3155.4	1509.2	62.0	52.6	33.7	21.4	13.0	8.7	7.4	7.1	7.1
62.5°	3452.0	1572.8	52.9	42.2	26.3	15.9	9.4	5.8	5.5	5.5	5.2
65°	3633.5	1482.9	44.4	33.7	20.5	12.0	6.2	4.2	4.9	4.5	3.9
67.5°	3402.0	1161.0	36.4	26.3	15.9	9.1	3.9	2.9	5.2	4.2	3.3
70°	2816.9	812.7	28.3	18.5	12.7	7.8	2.6	2.0	5.5	4.2	2.6
72.5°	2108.0	544.0	22.4	12.3	9.4	6.9	2.3	0.9	4.9	3.6	2.3
75°	1151.9	219.1	17.8	7.8	5.8	4.9	1.6	0.7	3.3	2.6	1.6
77.5°	303.1	57.8	13.0	5.2	3.3	2.0	0.9	0.3	1.6	1.3	0.7
80°	77.2	22.4	8.5	3.6	2.3	0.9	0.0	0.0	0.3	0.0	0.0
82.5°	41.2	9.4	5.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.2	6.2	2.9	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	2.0	0.9	0.0	0.0	0.0	0.0	0.0	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



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245982

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