

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: P385722

Luminaire Tested: **GWC-SA1B-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1B-735-U-T2-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4078.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

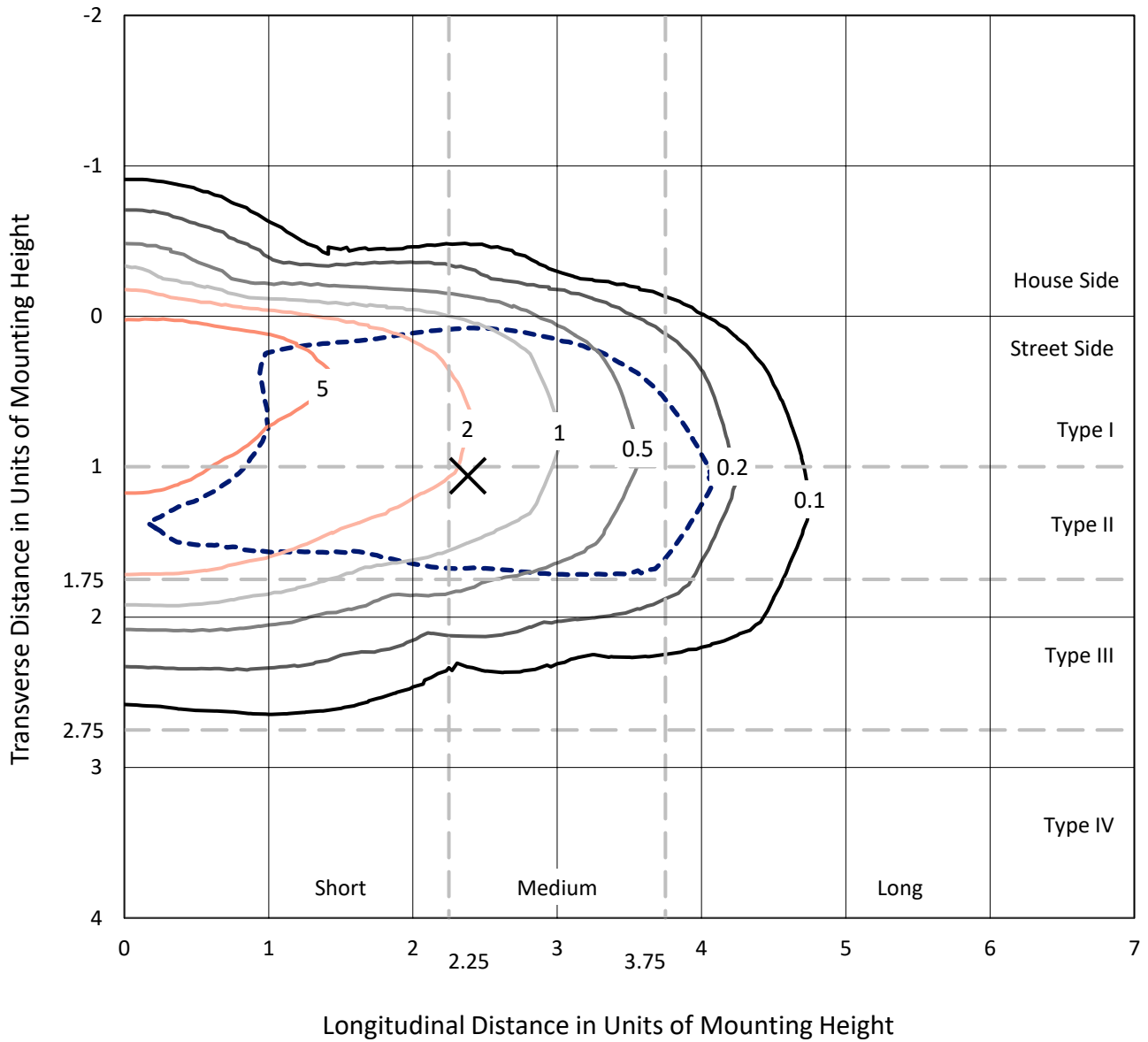
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

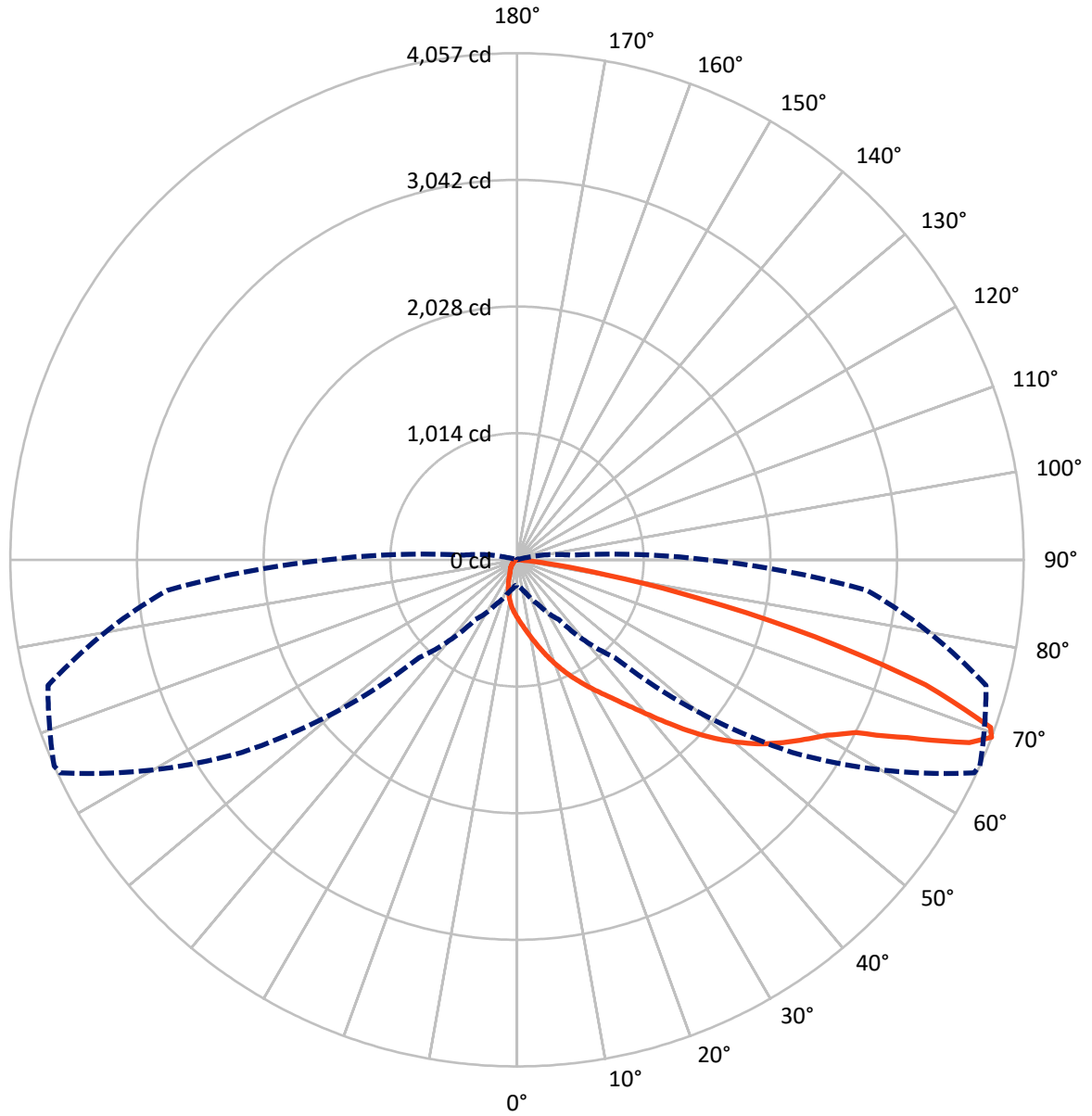
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.7	0.0	244.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	3834.2	0.0	3834.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	4078.8	0.0	4078.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	1.1
10°-20°	133.5	3.3
20°-30°	232.5	5.7
30°-40°	408.0	10.0
40°-50°	682.9	16.7
50°-60°	1003.8	24.6
60°-70°	1030.7	25.3
70°-80°	508.8	12.5
80°-90°	33.6	0.8
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°	4078.8	100.0
0°-180°	4078.8	100.0

Coefficient of Utilization



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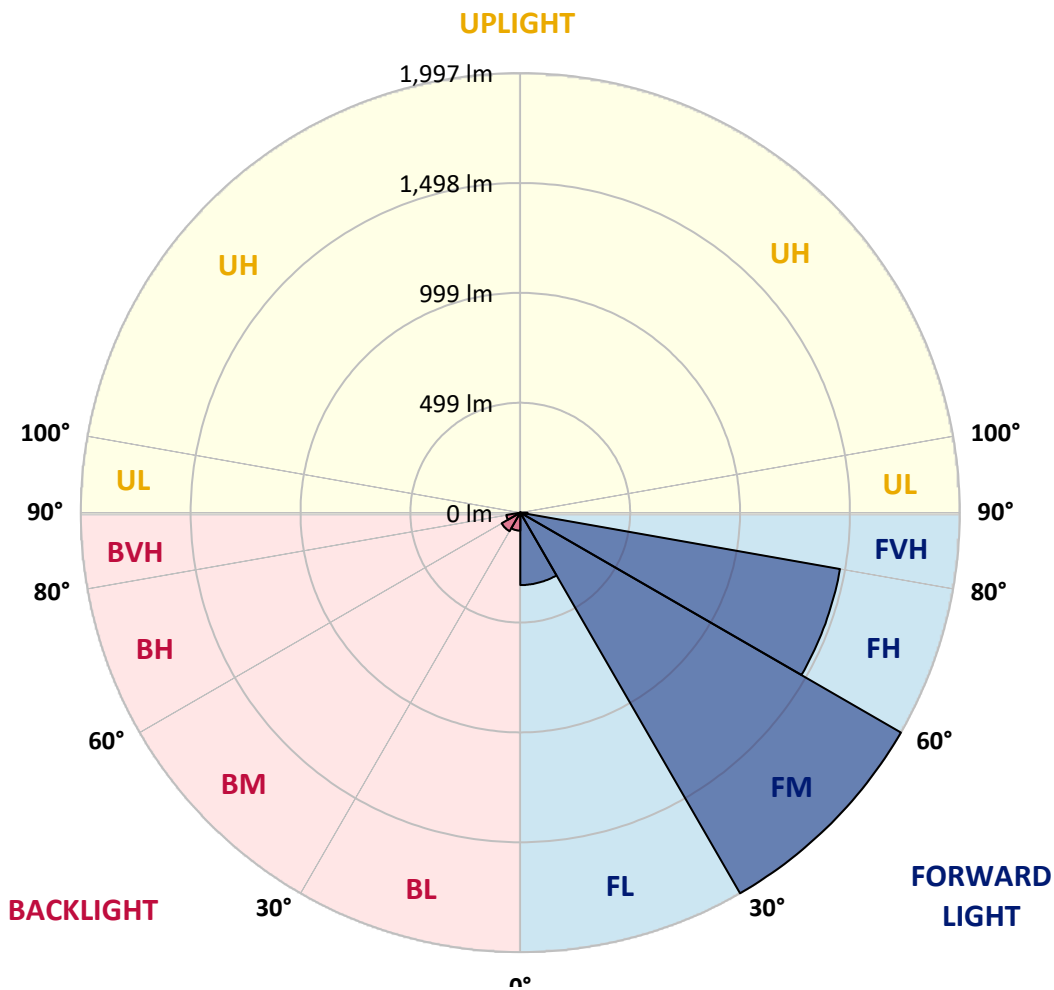
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	329.1	8.1			
FM (30°-60°)	1997.2	49.0			
FH (60°-80°)	1475.0	36.2			G1/1800
FVH (80°-90°)	32.8	0.8			G1/100
BL (0°-30°)	81.8	2.0	B0/110		
BM (30°-60°)	97.6	2.4	B0/220		
BH (60°-80°)	64.5	1.6	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	546.4	544.0	543.1	538.7	531.4	525.8	515.0	502.4	500.0	487.8	472.9
5°	617.3	615.3	614.0	608.0	600.4	586.3	566.5	543.1	538.6	515.4	485.5
7.5°	666.6	670.2	670.2	666.2	656.7	646.1	621.9	589.9	584.3	548.7	502.4
10°	695.5	699.8	703.0	706.3	705.0	700.7	677.9	641.8	635.0	587.8	521.9
12.5°	698.3	702.5	711.8	725.5	738.9	748.6	734.2	699.4	691.7	633.2	545.1
15°	683.1	687.5	701.9	728.6	761.0	789.3	793.9	763.2	755.2	687.2	574.3
17.5°	656.7	659.6	680.2	717.2	768.0	819.9	848.0	831.6	824.1	749.0	606.6
20°	637.2	639.4	657.3	697.0	763.7	839.1	899.1	904.2	896.4	815.2	641.6
22.5°	670.7	674.6	675.1	693.9	752.1	848.6	944.1	975.7	969.8	885.6	676.2
25°	762.3	766.8	752.1	740.4	761.9	852.8	982.6	1048.8	1044.2	961.3	710.8
27.5°	883.4	888.1	869.1	834.4	813.7	868.9	1016.9	1123.2	1123.0	1041.5	748.2
30°	1002.3	1007.0	987.7	953.0	905.3	914.4	1046.6	1201.1	1202.3	1124.3	787.9
32.5°	1127.2	1132.9	1113.0	1068.5	1018.7	993.0	1088.2	1279.5	1286.0	1220.2	832.7
35°	1268.9	1269.7	1241.6	1194.9	1137.6	1098.2	1155.1	1367.2	1382.9	1338.9	889.4
37.5°	1408.1	1413.7	1390.6	1317.0	1264.3	1219.7	1254.5	1476.8	1499.1	1484.0	963.6
40°	1511.1	1522.9	1519.7	1440.2	1390.2	1358.5	1377.8	1607.2	1635.5	1653.0	1057.2
42.5°	1575.8	1584.8	1599.9	1552.0	1506.7	1511.9	1523.5	1759.1	1794.0	1845.5	1164.8
45°	1650.0	1654.3	1666.9	1645.7	1615.2	1667.9	1678.1	1930.2	1966.8	2052.6	1284.1
47.5°	1740.7	1750.7	1754.2	1734.9	1721.0	1805.8	1827.1	2085.7	2137.1	2274.5	1410.4
50°	1856.1	1858.9	1864.9	1852.3	1838.3	1924.3	1960.8	2249.1	2295.8	2497.0	1535.0
52.5°	1969.1	1978.8	1999.7	1991.8	1986.2	2025.3	2079.9	2396.3	2448.4	2682.6	1659.3
55°	2001.7	2010.0	2082.3	2131.7	2177.3	2149.7	2193.9	2528.2	2584.6	2848.4	1779.0
57.5°	1871.6	1888.6	2013.7	2142.3	2332.0	2343.0	2350.4	2663.7	2714.2	2975.5	1903.6
60°	1543.0	1546.3	1751.8	1972.4	2306.4	2511.8	2579.0	2809.2	2851.5	3093.9	2052.8
62.5°	981.5	1015.0	1240.3	1551.8	2035.9	2487.3	2855.5	3029.3	3044.8	3235.9	2266.7
65°	467.4	489.1	651.6	958.7	1474.7	2174.9	3046.3	3427.4	3434.3	3517.5	2552.4
67.5°	258.8	269.3	346.6	516.1	862.1	1538.1	2969.1	3898.9	3905.4	3804.9	2803.2
69°	202.4	211.4	272.2	389.0	584.5	1105.5	2686.9	4037.0	4056.6	3887.3	2812.1
70°	171.8	180.6	234.4	328.6	470.0	854.2	2391.6	4002.8	4023.4	3879.5	2745.6
72.5°	105.2	110.2	156.1	231.3	315.0	429.7	1474.8	3385.1	3420.1	3558.7	2359.7
75°	70.9	73.6	97.6	159.6	225.3	221.2	766.3	2386.1	2462.0	2768.3	1742.9
77.5°	50.7	53.3	65.5	103.2	157.9	146.1	347.0	1482.8	1499.1	1660.3	950.5
80°	28.8	31.2	46.3	61.4	107.1	97.4	137.9	708.3	716.4	712.0	317.3
82.5°	15.1	17.0	25.4	40.5	68.8	63.8	57.3	237.1	238.3	198.2	69.5
85°	2.9	3.5	12.6	27.7	35.4	27.7	23.5	55.6	56.7	50.2	17.3
87.5°	0.0	0.2	5.1	6.2	7.0	7.1	7.5	10.8	11.6	15.7	4.6
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°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	466.3	459.4	445.9	430.4	418.5	406.7	397.4	387.7	384.2	382.4	382.2
5°	471.0	456.3	428.0	398.9	375.1	352.6	336.5	321.2	314.0	310.8	309.4
7.5°	478.7	455.0	409.6	365.1	330.9	302.8	280.5	263.9	255.5	252.0	250.7
10°	487.8	453.5	388.1	329.5	285.8	256.7	234.6	218.1	209.0	205.2	203.2
12.5°	498.4	450.8	363.3	293.5	247.2	218.1	191.4	171.1	160.6	156.1	154.1
15°	511.7	448.1	337.3	259.6	213.3	177.8	148.6	134.8	132.7	131.9	132.2
17.5°	524.7	443.9	309.0	226.1	177.6	138.9	124.0	123.2	123.6	123.6	123.6
20°	536.3	434.2	278.2	197.5	143.7	117.2	114.1	112.7	111.8	111.0	110.0
22.5°	545.3	421.1	248.6	168.9	117.4	107.4	102.5	98.3	94.7	92.4	91.2
25°	551.5	403.9	221.4	141.7	105.6	97.6	89.0	81.7	76.4	73.0	71.7
27.5°	556.2	385.3	197.2	118.6	97.4	86.4	75.0	66.4	60.9	58.0	56.7
30°	559.5	364.2	175.9	104.3	88.3	74.6	62.4	54.0	50.0	48.5	47.6
32.5°	562.6	340.8	155.8	97.4	79.8	63.8	52.3	45.9	43.4	41.4	40.9
35°	570.3	319.1	136.6	90.3	71.1	54.5	44.9	40.3	37.8	36.6	36.3
37.5°	588.7	303.0	118.2	82.9	62.4	47.1	39.4	36.1	33.7	32.5	32.1
40°	618.4	294.9	102.7	75.0	53.8	41.4	35.6	32.5	30.1	28.3	27.9
42.5°	662.0	296.0	91.9	67.1	47.1	37.0	32.1	28.5	25.7	24.2	23.9
45°	714.9	304.6	84.3	59.3	41.4	33.5	28.3	24.4	21.9	20.6	20.1
47.5°	772.2	318.3	78.1	52.3	37.0	30.2	24.4	20.4	18.2	17.0	16.8
50°	832.7	331.7	71.7	45.6	33.2	27.0	20.6	16.8	15.1	14.2	13.7
52.5°	893.9	347.2	65.9	39.4	29.9	23.0	17.0	13.7	12.4	11.6	11.3
55°	959.8	358.8	60.2	34.5	26.6	19.5	14.2	11.5	10.2	9.3	9.1
57.5°	1037.3	376.8	54.5	29.9	22.6	16.3	11.6	9.1	8.2	7.1	7.0
60°	1141.8	397.9	48.3	26.3	18.6	13.3	9.5	7.3	6.2	5.4	5.3
62.5°	1279.8	421.4	40.5	23.0	15.1	10.8	7.5	5.8	4.4	3.5	3.5
65°	1454.7	459.6	33.2	19.4	12.4	8.9	5.8	4.2	2.5	1.5	1.5
67.5°	1556.9	466.1	26.8	15.9	10.1	7.5	4.9	2.9	0.8	0.2	0.0
69°	1524.1	428.0	22.6	13.5	8.7	7.1	4.4	2.2	0.4	0.0	0.0
70°	1462.5	391.4	19.9	12.0	8.0	6.8	4.2	1.5	0.4	0.0	0.0
72.5°	1208.5	278.6	15.1	8.9	5.8	6.0	3.9	0.9	0.4	0.0	0.0
75°	880.3	169.3	10.8	6.2	3.7	4.4	2.7	0.4	0.2	0.0	0.0
77.5°	489.8	79.8	6.8	3.5	2.3	2.7	1.3	0.0	0.0	0.0	0.0
80°	159.0	21.7	3.1	2.0	1.3	1.5	0.6	0.0	0.0	0.0	0.0
82.5°	29.4	6.2	1.8	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0
85°	6.4	2.5	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.8	0.2	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

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

Scaled Data Report



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