

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: P386178

Luminaire Tested: **GWC-SA1D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1D-735-U-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5529.3 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

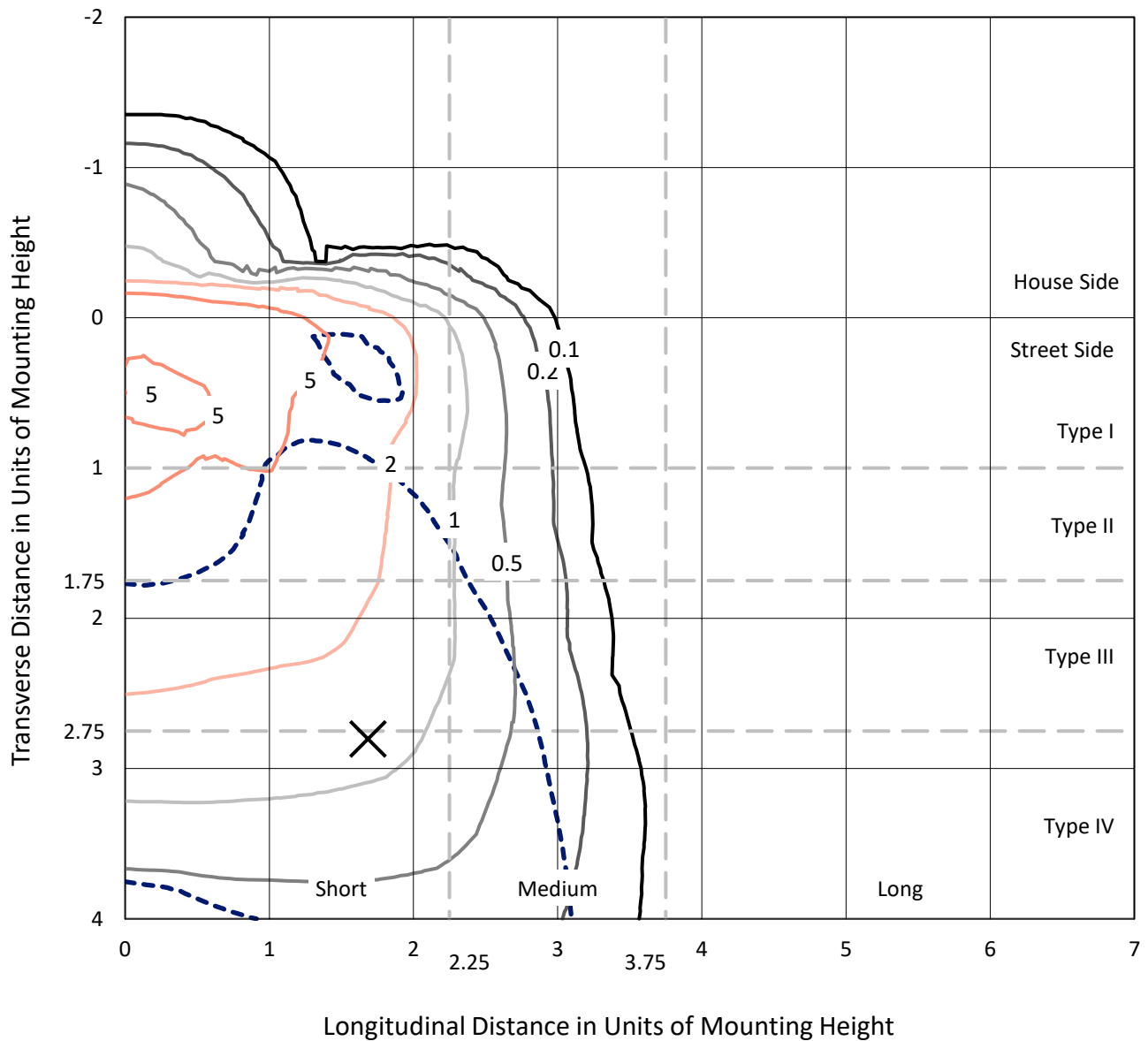
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P386178
 CATALOG NUMBER: GWC-SA1D-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

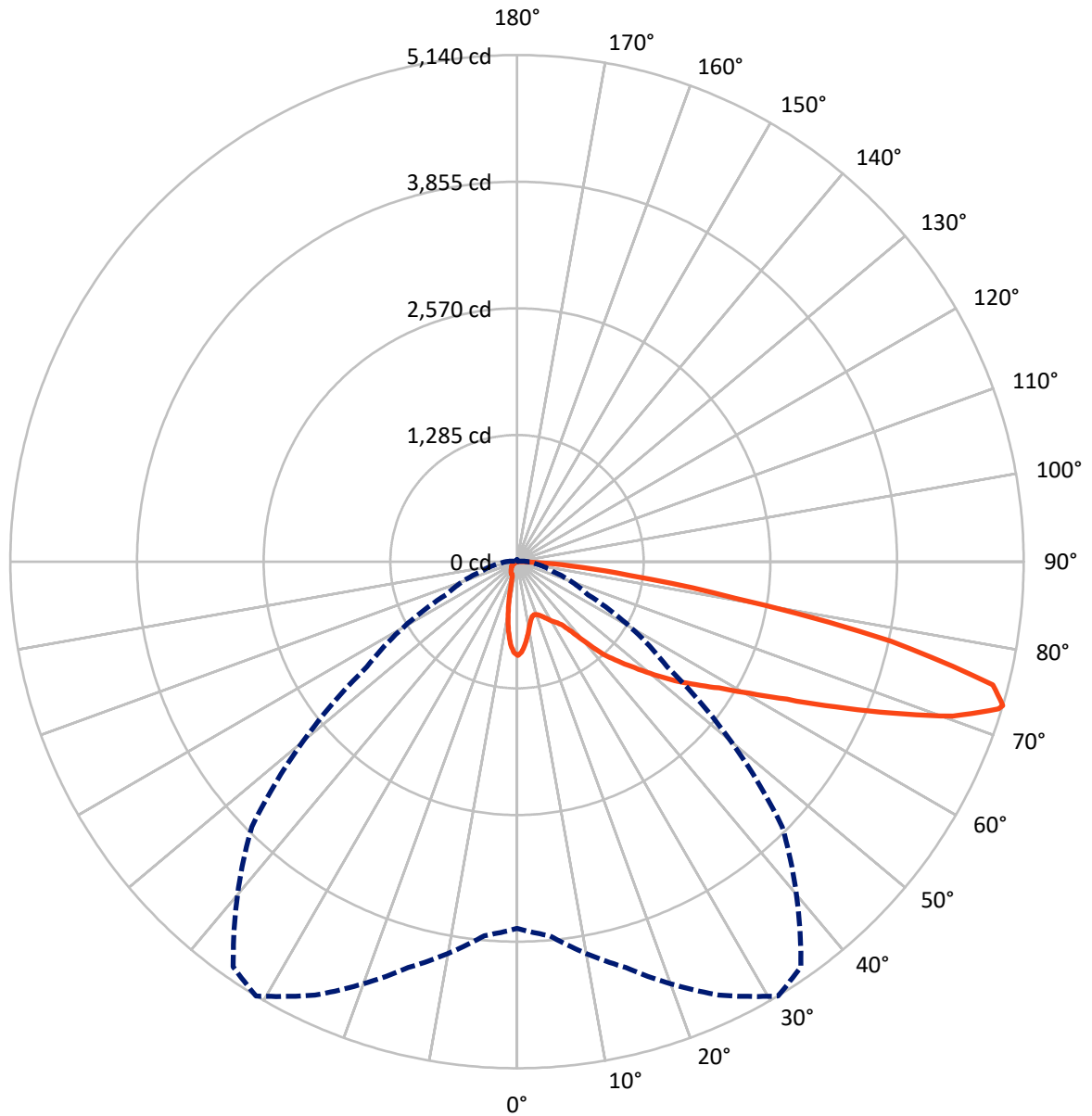
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P386178
CATALOG NUMBER: GWC-SA1D-735-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



REPORT NUMBER: P386178
 CATALOG NUMBER: GWC-SA1D-735-U-T4FT-HSS

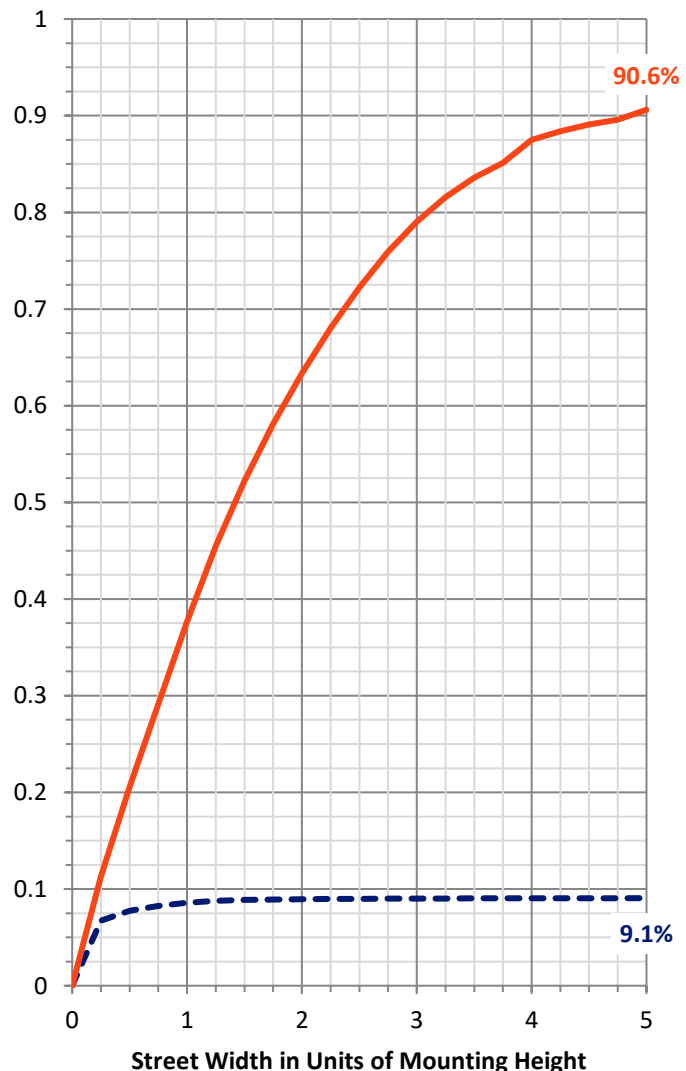
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	504.0	0.0	504.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	5025.3	0.0	5025.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	5529.3	0.0	5529.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	1.4
10°-20°	171.3	3.1
20°-30°	256.6	4.6
30°-40°	408.3	7.4
40°-50°	729.0	13.2
50°-60°	1131.3	20.5
60°-70°	1503.9	27.2
70°-80°	1131.2	20.5
80°-90°	118.9	2.1
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°	5529.3	100.0
0°-180°	5529.3	100.0

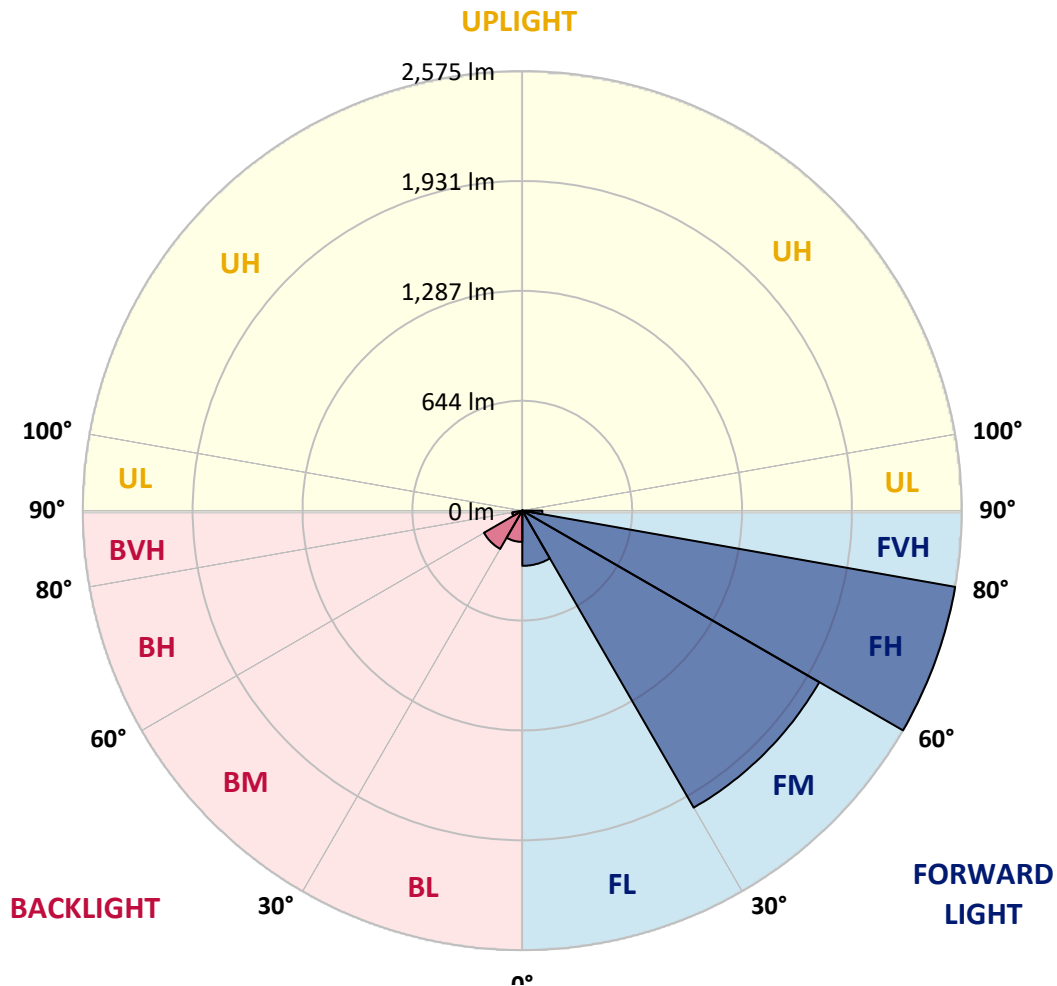


REPORT NUMBER: P386178
 CATALOG NUMBER: GWC-SA1D-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.5	5.9			
FM (30°-60°)	2009.1	36.3			
FH (60°-80°)	2574.8	46.6			G2/5000
FVH (80°-90°)	117.9	2.1			G2/225
BL (0°-30°)	183.3	3.3	B1/500		
BM (30°-60°)	259.4	4.7	B1/1000		
BH (60°-80°)	60.3	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	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 IV Short





REPORT NUMBER: P386178

CATALOG NUMBER: GWC-SA1D-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3
2.5°	901.5	905.3	909.4	910.2	916.9	917.2	927.0	934.3	941.6	948.6	951.0
5°	809.0	815.2	822.5	829.9	844.1	849.9	873.6	898.1	921.3	943.4	954.3
7.5°	710.3	717.3	727.6	745.7	761.7	772.7	810.3	853.6	896.9	937.8	961.4
10°	620.2	626.7	637.5	656.6	681.2	696.5	747.0	807.1	870.7	932.6	971.9
12.5°	562.8	566.3	572.3	592.9	615.0	632.0	691.6	766.0	849.0	932.3	988.9
15°	552.3	553.3	548.4	557.6	575.0	591.4	651.8	732.7	832.6	936.7	1011.2
17.5°	569.0	568.4	552.3	551.1	565.0	578.5	632.3	709.7	820.9	946.7	1039.8
20°	594.4	592.6	564.4	559.2	573.9	586.6	631.0	701.1	816.6	963.5	1074.7
22.5°	628.3	625.0	580.9	575.5	591.2	604.4	647.7	709.4	820.4	986.0	1115.2
25°	670.2	665.4	609.3	603.4	619.3	632.6	677.8	733.5	831.7	1013.3	1166.7
27.5°	717.5	710.6	654.8	639.4	657.5	671.3	717.8	770.3	849.6	1042.3	1229.8
30°	762.2	753.0	702.7	677.2	699.4	714.9	761.1	814.2	878.2	1086.9	1316.1
32.5°	807.1	796.8	745.4	715.2	735.2	751.9	805.7	874.5	932.1	1155.1	1430.8
35°	910.5	899.7	836.6	786.6	786.3	795.8	868.3	957.0	1003.3	1250.1	1567.7
37.5°	1084.4	1078.2	1018.1	923.1	897.8	887.2	953.5	1055.5	1105.6	1380.7	1722.2
40°	1274.9	1269.5	1202.1	1116.1	1077.4	1051.5	1075.8	1192.7	1250.1	1540.3	1879.9
42.5°	1490.1	1464.3	1344.2	1318.4	1283.9	1264.1	1242.2	1361.7	1427.5	1714.0	2036.3
45°	1685.4	1642.1	1486.2	1447.2	1439.4	1444.3	1456.4	1589.1	1627.2	1920.5	2192.2
47.5°	1801.8	1767.7	1648.1	1610.7	1608.5	1640.7	1732.7	1845.8	1826.1	2100.4	2329.3
50°	1912.4	1881.5	1782.2	1791.4	1801.5	1845.3	2046.3	2109.9	2007.7	2263.6	2455.1
52.5°	2001.9	1954.9	1902.9	1954.6	2003.8	2074.5	2369.9	2346.9	2136.5	2393.5	2562.9
55°	2053.6	2032.3	2057.4	2109.3	2201.9	2316.6	2675.4	2544.2	2230.6	2511.9	2634.5
57.5°	2243.0	2201.1	2251.2	2296.1	2416.7	2577.1	2937.0	2691.1	2298.5	2585.3	2651.1
60°	2472.2	2438.4	2467.9	2542.6	2705.5	2894.0	3181.6	2810.9	2333.9	2632.4	2608.3
62.5°	2836.9	2792.3	2773.8	2857.4	3073.4	3279.3	3367.3	2894.0	2326.1	2611.5	2461.7
65°	3325.5	3279.3	3197.0	3272.8	3547.4	3692.8	3574.8	2911.6	2272.0	2443.0	2091.0
67.5°	3826.2	3792.6	3722.3	3849.9	4097.7	4144.6	3794.2	2868.8	2097.8	1980.8	1477.3
70°	4156.7	4142.4	4188.1	4470.6	4691.7	4678.2	3995.5	2639.1	1635.0	1218.1	730.8
72.5°	3918.4	3987.1	4324.8	4836.9	5107.0	4996.6	3892.1	2026.6	934.5	468.7	211.3
73°	3720.8	3808.8	4263.3	4850.7	5139.7	5018.8	3805.3	1860.2	796.5	369.8	160.2
75°	2588.5	2696.5	3529.6	4517.7	4986.6	4781.8	3171.9	1138.5	369.1	163.9	64.6
77.5°	1256.8	1336.6	1943.5	3264.1	3878.1	3736.1	1974.6	424.2	166.6	102.6	29.8
80°	469.1	521.6	843.7	1661.3	2241.1	2299.8	868.6	160.4	110.9	82.5	15.1
82.5°	122.9	136.9	311.1	740.8	1148.6	1202.1	273.8	80.9	81.2	67.9	9.2
85°	39.3	44.9	97.1	332.5	541.2	475.1	71.4	39.3	59.0	50.6	5.2
87.5°	4.9	6.2	30.8	78.2	119.3	66.3	11.1	11.6	25.2	28.2	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386178
 CATALOG NUMBER: GWC-SA1D-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3
2.5°	953.5	952.2	952.5	945.4	940.8	931.6	922.1	917.8	913.2	911.3	913.2
5°	958.4	955.9	948.9	927.3	904.3	874.5	846.6	825.5	799.0	791.7	799.2
7.5°	966.0	961.1	940.5	896.4	845.3	788.4	724.6	678.1	639.9	615.3	624.2
10°	977.1	967.9	926.4	851.5	760.1	659.4	568.7	498.2	448.1	427.5	426.7
12.5°	995.7	978.4	909.1	793.0	655.9	521.6	402.9	326.3	285.8	259.5	258.9
15°	1016.2	990.9	887.2	723.0	534.6	373.7	259.5	201.3	175.1	166.6	165.6
17.5°	1041.4	1005.2	858.8	636.6	407.8	247.5	169.4	152.6	151.5	150.7	150.7
20°	1073.1	1022.2	822.3	537.9	289.2	165.3	143.9	145.0	145.6	144.5	144.8
22.5°	1109.9	1039.5	778.7	431.8	195.6	138.3	137.7	139.0	139.6	139.0	139.3
25°	1152.6	1059.5	725.7	320.6	141.2	131.2	132.5	134.4	135.8	135.8	135.8
27.5°	1205.6	1083.9	661.8	223.8	122.0	123.9	127.7	131.2	133.1	133.7	133.7
30°	1274.7	1114.2	585.2	153.4	110.9	114.1	121.2	127.9	131.5	132.1	132.3
32.5°	1361.7	1148.3	496.5	113.4	101.5	103.9	111.5	122.9	129.6	130.7	130.7
35°	1461.6	1187.8	401.0	98.7	94.7	95.5	101.5	114.4	126.3	129.4	129.6
37.5°	1570.9	1226.8	304.9	92.2	89.1	89.1	93.4	104.5	118.6	127.7	128.8
40°	1673.0	1250.3	213.7	87.1	83.9	83.9	87.6	95.8	109.1	122.9	125.8
42.5°	1767.1	1258.4	148.8	82.3	79.0	79.8	83.0	89.5	99.6	113.4	116.1
45°	1863.9	1257.1	108.5	76.6	74.1	76.6	79.0	83.9	91.2	99.0	99.6
47.5°	1937.0	1245.7	86.0	71.2	69.5	72.8	75.0	78.2	82.3	81.7	81.7
50°	2005.4	1218.1	69.2	63.9	64.9	68.8	69.8	70.9	71.2	66.0	65.5
52.5°	2057.4	1175.1	55.4	56.0	60.3	64.2	63.0	61.4	58.7	52.5	51.4
55°	2074.7	1092.3	43.6	46.3	53.5	58.4	54.4	50.8	45.7	40.6	39.5
57.5°	2043.4	985.4	35.4	36.0	45.2	49.2	44.6	40.6	34.9	30.5	29.8
60°	1976.8	866.6	29.2	27.1	34.9	38.4	35.4	31.4	26.2	23.0	22.7
62.5°	1844.8	740.1	24.0	21.1	26.5	29.5	27.6	24.6	20.3	18.1	17.8
65°	1567.1	592.0	19.4	17.0	20.6	23.0	21.4	19.2	16.0	14.4	14.1
67.5°	1093.9	400.2	16.0	14.1	16.3	18.1	16.8	15.7	12.7	12.4	12.7
70°	527.7	193.0	13.2	11.4	12.7	14.1	13.5	12.7	12.2	14.1	16.3
72.5°	151.2	64.6	10.5	9.5	10.2	11.1	11.6	11.4	13.2	17.0	19.7
73°	116.4	52.2	10.1	8.9	9.8	10.8	11.4	11.1	13.5	17.3	19.7
75°	49.8	25.2	7.6	7.3	8.1	9.5	10.1	10.1	13.5	17.6	19.0
77.5°	22.5	13.5	4.9	5.6	7.0	7.6	8.4	8.4	10.8	13.5	13.5
80°	12.7	7.3	3.8	4.3	5.2	5.2	5.2	4.6	4.9	5.4	5.9
82.5°	8.1	4.9	3.0	3.5	3.3	2.7	2.2	2.2	1.9	2.2	2.7
85°	4.6	2.7	2.7	2.2	1.3	1.1	1.3	1.1	0.3	0.0	0.3
87.5°	2.7	1.6	0.8	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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



--- HS — SS

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

Scaled Data Report



u

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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)