

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: P200656

Luminaire Tested: **GWC-AF-02-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-T2-8030
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9947 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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: 25 FT



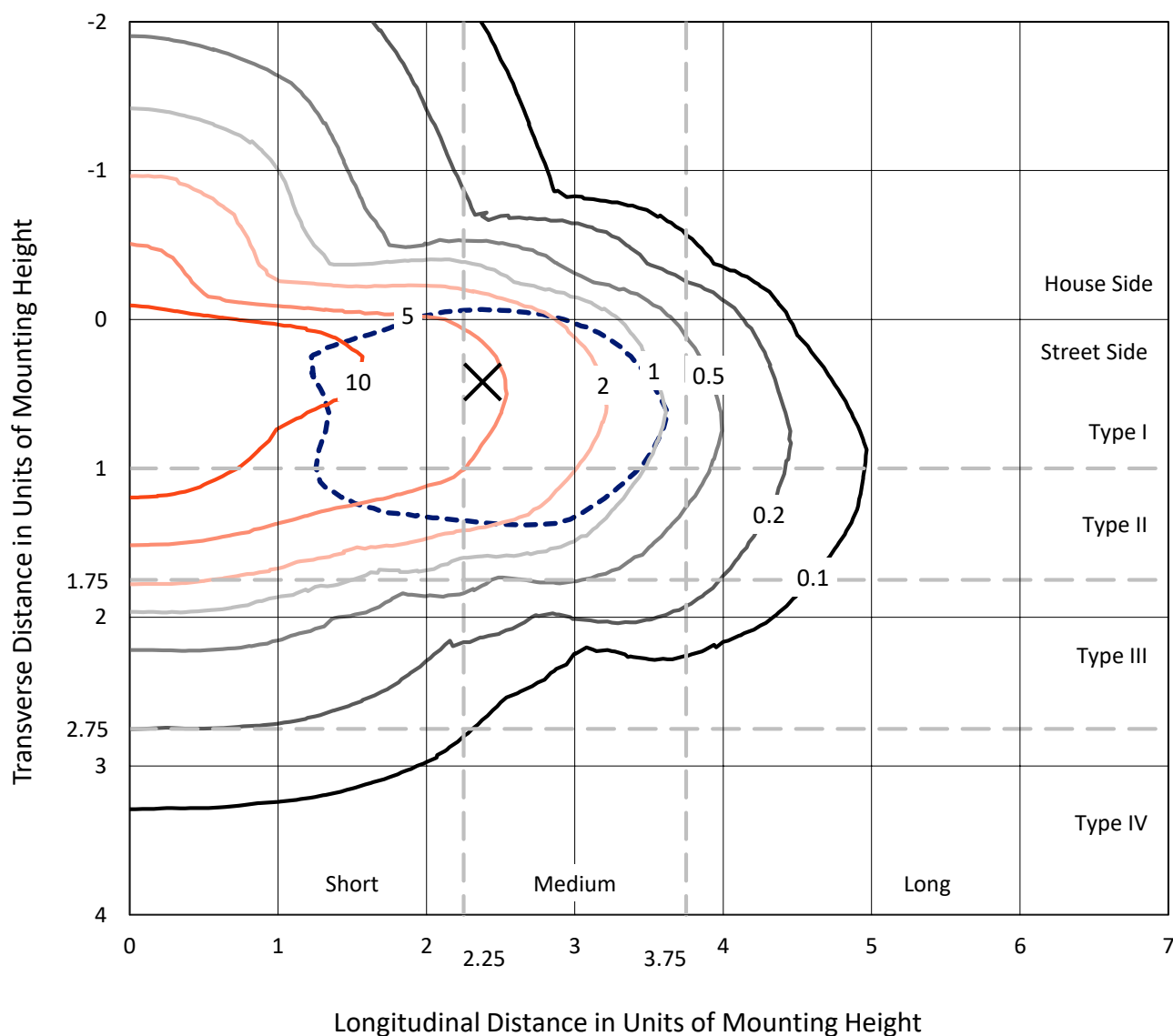
REPORT NUMBER: P200656

CATALOG NUMBER: GWC-AF-02-LED-E1-T2-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

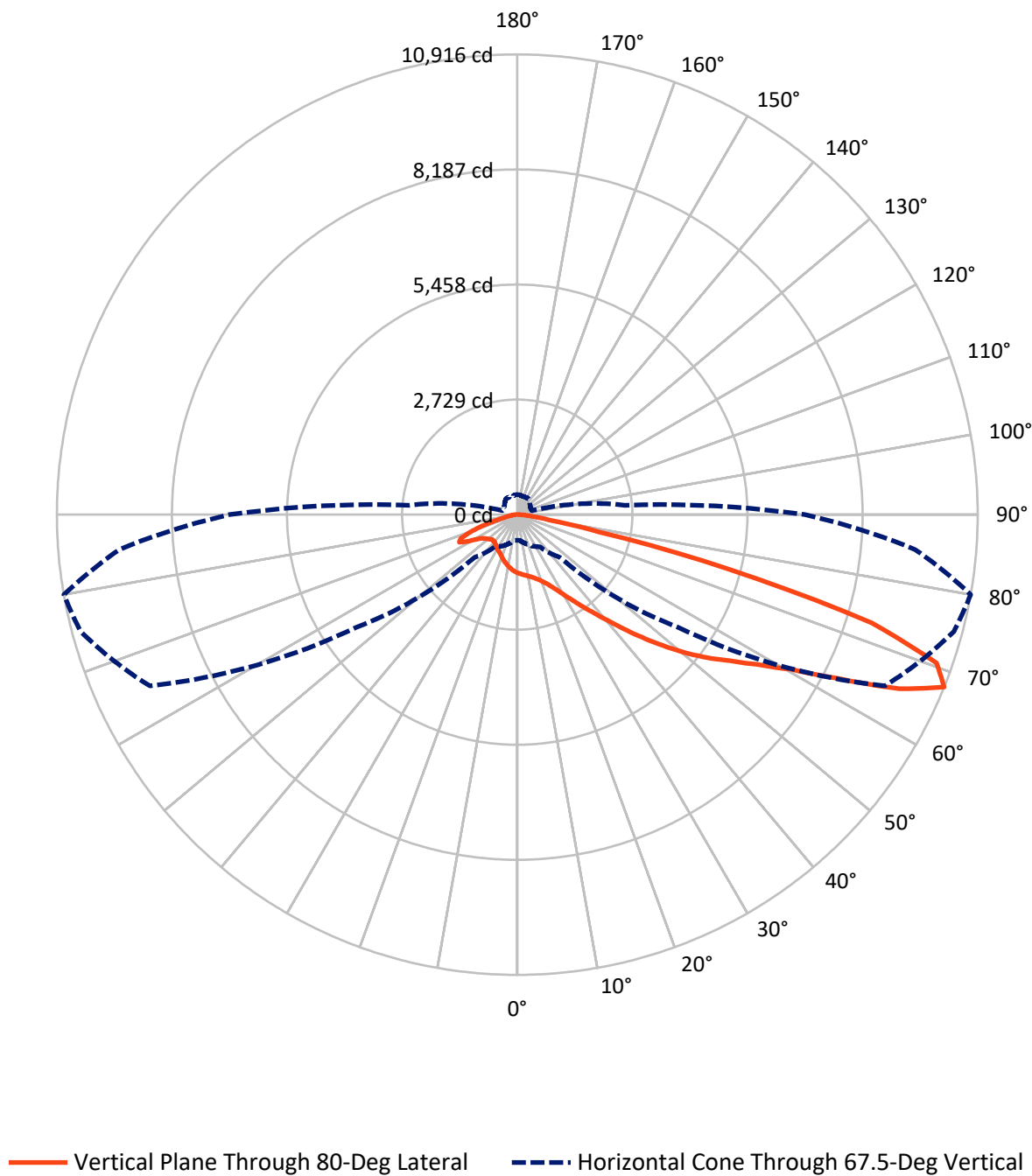


Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P200656

CATALOG NUMBER: GWC-AF-02-LED-E1-T2-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P200656

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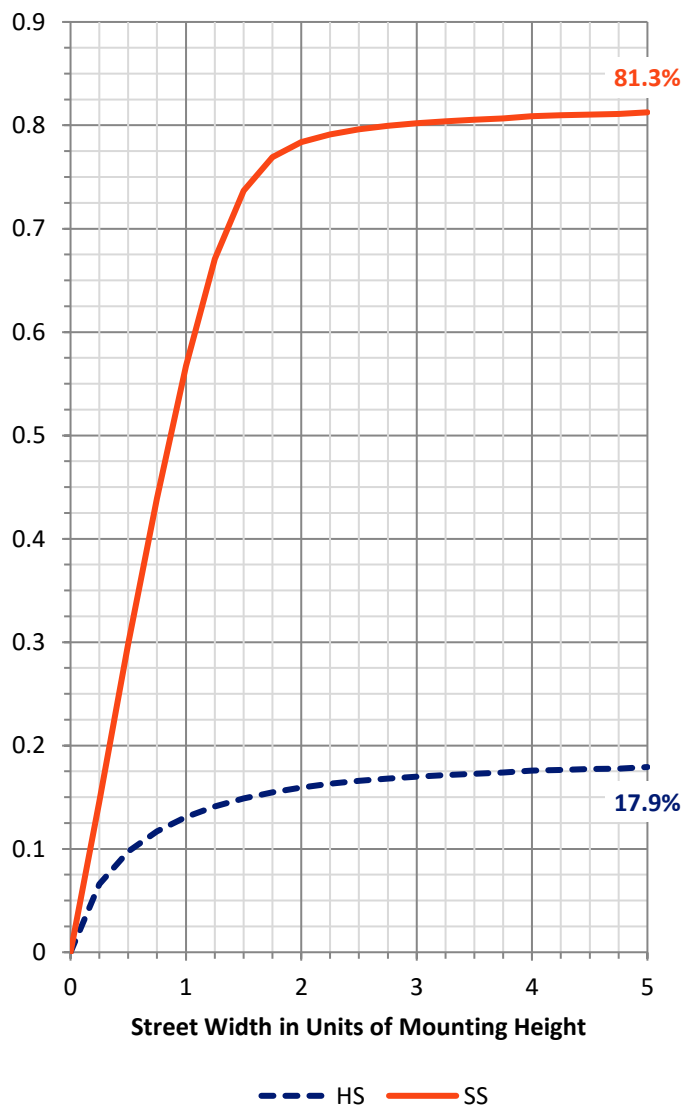
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1831.8	0.0	1831.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	8115.1	0.0	8115.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	9947.0	0.0	9947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	1.3
10°-20°	367.2	3.7
20°-30°	607.8	6.1
30°-40°	994.3	10.0
40°-50°	1605.3	16.1
50°-60°	2317.6	23.3
60°-70°	2557.6	25.7
70°-80°	1178.9	11.9
80°-90°	190.7	1.9
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°	9947.0	100.0
0°-180°	9947.0	100.0

Coefficient of Utilization



REPORT NUMBER: P200656

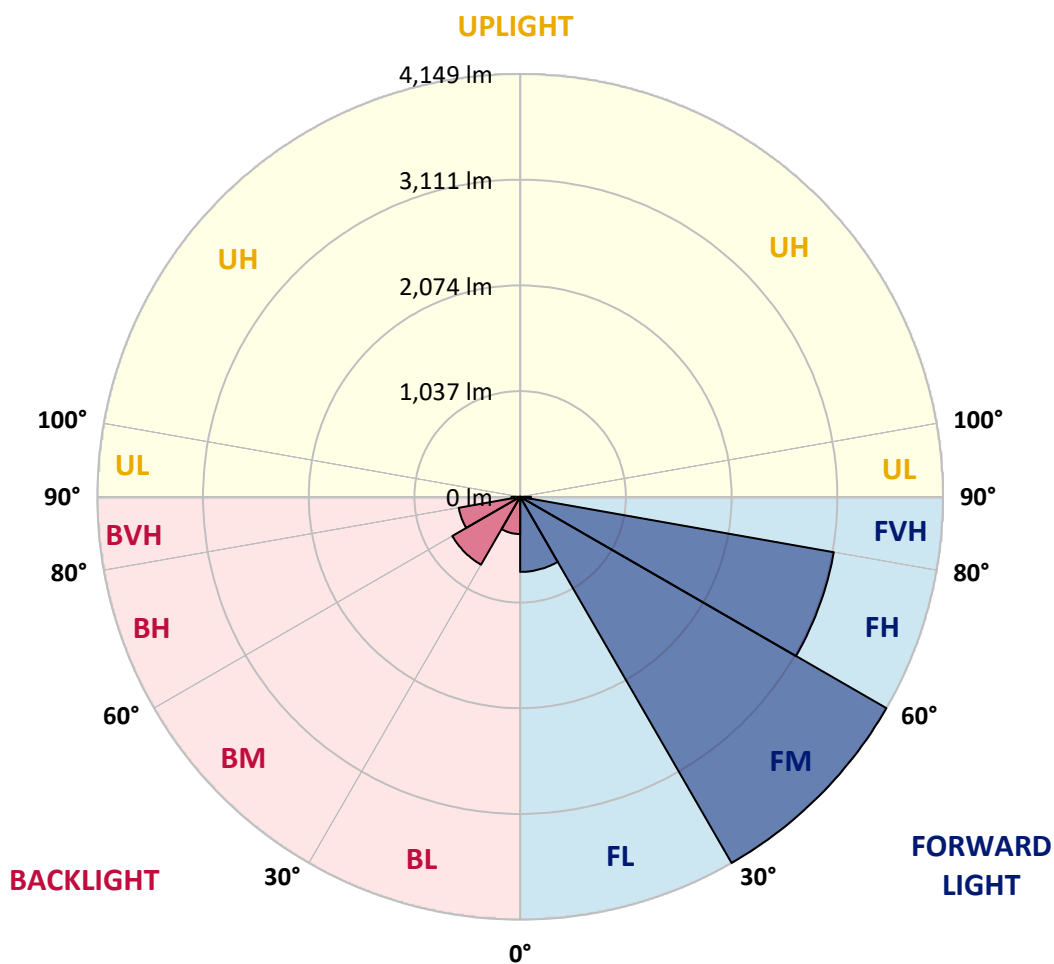
CATALOG NUMBER: GWC-AF-02-LED-E1-T2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	737.1	7.4			
FM	(30°-60°)	4148.6	41.7			
FH	(60°-80°)	3124.6	31.4			G2/5000
FVH	(80°-90°)	104.8	1.1			G2/225
BL	(0°-30°)	365.5	3.7	B1/500		
BM	(30°-60°)	768.6	7.7	B1/1000		
BH	(60°-80°)	611.9	6.2	B2/1000		G2/1000
BVH	(80°-90°)	85.8	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P200656

CATALOG NUMBER: GWC-AF-02-LED-E1-T2-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1511.7	1502.9	1504.4	1501.9	1494.6	1481.8	1468.1	1443.1	1417.2	1403.5	1392.7
5°	1638.0	1635.6	1632.2	1624.3	1605.7	1579.3	1546.5	1502.4	1454.9	1429.9	1405.9
7.5°	1732.6	1731.1	1726.7	1721.8	1703.7	1671.8	1622.4	1559.7	1490.6	1456.4	1419.1
10°	1740.4	1742.8	1746.3	1759.5	1761.9	1744.8	1694.4	1618.5	1527.9	1483.8	1436.3
12.5°	1673.8	1679.2	1692.4	1726.2	1761.9	1783.0	1757.0	1680.2	1571.4	1518.1	1457.8
15°	1585.6	1588.6	1604.7	1651.3	1715.4	1780.5	1805.0	1748.2	1627.8	1562.1	1490.2
17.5°	1547.9	1549.4	1560.7	1591.5	1651.3	1744.3	1832.0	1822.2	1696.8	1617.0	1529.8
20°	1528.8	1532.3	1548.4	1578.8	1616.5	1697.8	1835.9	1902.0	1779.1	1685.5	1579.8
22.5°	1583.2	1581.7	1587.6	1602.8	1634.6	1683.6	1832.9	1984.3	1883.9	1773.7	1644.9
25°	1710.0	1715.4	1705.1	1688.0	1698.3	1732.6	1848.6	2073.4	2015.1	1886.8	1730.1
27.5°	1890.7	1885.3	1870.2	1830.0	1808.9	1823.6	1900.5	2169.4	2178.2	2035.7	1842.7
30°	2070.9	2066.5	2051.8	2002.9	1959.8	1947.5	2001.4	2279.5	2372.6	2214.4	1980.8
32.5°	2258.0	2253.1	2239.4	2190.4	2138.5	2110.1	2144.9	2406.9	2601.8	2427.9	2143.4
35°	2488.6	2479.3	2450.4	2382.4	2331.5	2309.4	2325.6	2567.0	2866.2	2680.6	2340.8
37.5°	2705.6	2719.8	2690.4	2596.4	2530.3	2522.4	2540.6	2762.4	3151.2	2963.2	2567.5
40°	2923.5	2925.9	2899.5	2822.6	2754.6	2741.8	2787.4	2999.4	3487.6	3301.1	2843.2
42.5°	3148.8	3153.7	3109.1	3038.1	2988.1	2990.6	3042.5	3277.1	3873.5	3699.2	3160.5
45°	3415.6	3423.0	3374.0	3281.0	3235.4	3327.0	3305.5	3588.5	4296.6	4151.7	3524.8
47.5°	3694.8	3706.0	3668.8	3581.7	3524.8	3650.7	3568.4	3933.7	4752.0	4636.9	3924.9
50°	3847.1	3863.2	3899.5	3893.1	3880.9	3859.8	3861.8	4304.0	5221.6	5142.3	4336.3
52.5°	3765.3	3764.8	3897.0	4057.6	4229.0	4241.8	4219.2	4694.2	5660.4	5636.4	4723.6
55°	3391.2	3416.6	3616.9	3927.9	4396.0	4688.4	4755.0	5141.3	6091.4	6119.3	5116.9
57.5°	2768.3	2789.3	3059.6	3493.0	4170.8	4953.8	5516.9	5791.2	6573.2	6703.5	5640.3
60°	1877.5	1903.0	2189.4	2710.0	3564.5	4805.9	6242.2	6950.8	7150.1	7446.3	6374.9
62.5°	1103.3	1126.3	1359.9	1709.5	2509.7	4118.8	6560.5	8600.6	8066.3	8567.3	7495.3
65°	759.5	775.2	888.8	1064.1	1442.2	2774.1	6165.8	9739.6	9476.1	9956.0	8794.5
67.5°	611.1	609.2	699.3	818.8	928.5	1430.4	4662.4	9610.8	10716.1	10916.3	9468.8
70°	503.4	501.5	562.7	661.6	741.9	805.6	2539.6	8110.4	10463.4	10544.7	8847.9
72.5°	421.1	423.1	462.3	535.7	608.7	606.7	1116.0	5705.5	8231.3	8793.5	7053.1
75°	355.5	356.5	382.5	434.4	494.1	488.7	605.3	3091.0	4784.8	5176.1	3909.7
77.5°	302.6	303.6	320.3	349.2	391.8	389.8	441.7	1335.4	1996.0	1971.5	1337.4
80°	269.8	269.8	277.7	283.0	306.6	297.7	327.6	641.5	843.7	779.1	533.8
82.5°	211.5	212.5	260.5	258.6	241.4	230.2	230.2	378.0	447.1	413.3	312.4
85°	119.0	118.5	168.0	202.7	212.5	162.1	160.6	211.5	243.4	214.5	151.3
87.5°	50.9	51.9	77.9	90.1	120.5	100.9	99.4	109.2	123.9	107.2	70.0
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: P200656

CATALOG NUMBER: GWC-AF-02-LED-E1-T2-8030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1382.4	1369.7	1341.8	1307.0	1275.7	1255.1	1236.5	1209.6	1211.0	1192.4	1178.7
5°	1381.4	1355.0	1290.4	1213.5	1139.5	1086.2	1046.0	1009.8	1000.9	983.8	973.5
7.5°	1382.4	1339.3	1230.6	1107.7	1016.1	948.5	914.3	895.2	890.8	884.9	885.4
10°	1385.8	1325.1	1165.0	1008.8	912.8	868.2	859.9	865.8	872.6	874.6	875.1
12.5°	1393.7	1312.4	1093.0	920.6	848.2	834.4	848.6	868.7	881.9	888.3	887.8
15°	1411.3	1302.6	1024.0	851.6	812.4	819.8	846.2	874.6	893.7	902.5	903.0
17.5°	1430.4	1288.4	953.0	798.7	786.0	804.6	837.4	870.7	894.2	904.0	905.9
20°	1455.4	1270.8	878.5	759.0	761.0	782.0	812.9	846.2	872.2	880.5	884.4
22.5°	1488.2	1251.7	813.4	726.7	732.6	748.7	772.7	801.6	824.2	828.1	831.5
25°	1532.3	1231.1	761.5	697.3	699.8	709.1	725.2	742.4	758.1	753.6	757.1
27.5°	1591.5	1213.5	722.8	670.4	666.0	667.9	676.3	681.7	690.0	677.7	679.2
30°	1661.1	1194.4	692.9	646.9	634.6	631.2	633.2	636.1	642.5	625.8	623.4
32.5°	1741.9	1171.4	665.0	626.3	609.2	602.3	603.3	611.1	635.6	625.3	620.0
35°	1835.9	1145.4	635.6	603.8	592.0	582.3	581.3	605.8	678.7	672.4	667.5
37.5°	1946.1	1119.4	606.2	578.3	579.3	568.5	565.1	593.0	687.0	662.1	658.6
40°	2086.1	1105.7	581.3	551.4	563.6	562.2	555.3	569.5	632.2	586.7	580.8
42.5°	2259.5	1107.7	562.7	522.5	545.0	560.7	549.9	550.4	572.9	538.7	533.3
45°	2473.5	1130.7	549.4	499.5	524.0	559.2	548.0	540.1	542.1	524.0	521.0
47.5°	2723.2	1178.2	540.1	480.4	503.9	553.8	547.5	537.2	532.8	523.0	520.5
50°	3000.9	1247.3	533.3	462.3	485.8	545.0	548.0	534.3	529.4	525.4	524.0
52.5°	3273.6	1326.1	523.0	446.6	471.6	534.3	549.4	531.3	525.9	523.0	521.5
55°	3577.7	1424.5	507.3	433.4	459.8	520.5	549.4	526.9	521.0	521.5	521.0
57.5°	3988.6	1583.7	488.7	422.1	445.6	503.9	540.1	522.0	514.7	515.2	515.7
60°	4630.6	1864.3	466.2	410.9	428.0	484.3	527.4	511.2	503.9	505.9	506.3
62.5°	5574.7	2276.1	436.8	394.2	409.4	463.3	509.8	497.5	490.2	495.1	495.1
65°	6556.1	2639.5	400.6	373.1	389.8	440.2	487.7	480.4	473.0	484.3	483.8
67.5°	6820.0	2558.2	364.3	350.1	370.2	414.8	461.3	457.4	453.5	473.0	472.1
70°	6058.5	2053.8	331.0	326.6	348.7	387.4	432.9	432.9	430.4	445.1	441.7
72.5°	4615.9	1456.4	299.2	301.7	324.2	357.5	402.0	405.5	401.6	408.9	406.0
75°	2471.0	833.5	267.4	274.2	293.8	327.1	367.8	371.2	368.7	368.3	369.7
77.5°	821.2	407.4	234.1	244.8	262.0	295.8	332.0	337.4	331.5	330.5	330.1
80°	365.8	256.1	197.3	211.5	226.7	260.0	294.3	298.7	292.3	301.2	289.9
82.5°	235.1	168.5	158.2	173.8	188.5	224.3	256.6	257.6	251.7	292.3	249.3
85°	114.1	104.3	119.0	133.2	145.9	176.3	212.5	213.0	198.3	180.7	174.3
87.5°	56.8	60.7	79.3	92.1	98.4	121.0	154.7	151.8	145.4	132.2	121.9
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)