

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: P199998

Luminaire Tested: **GWC-AF-02-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
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-SLL-7030-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8531 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 86
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

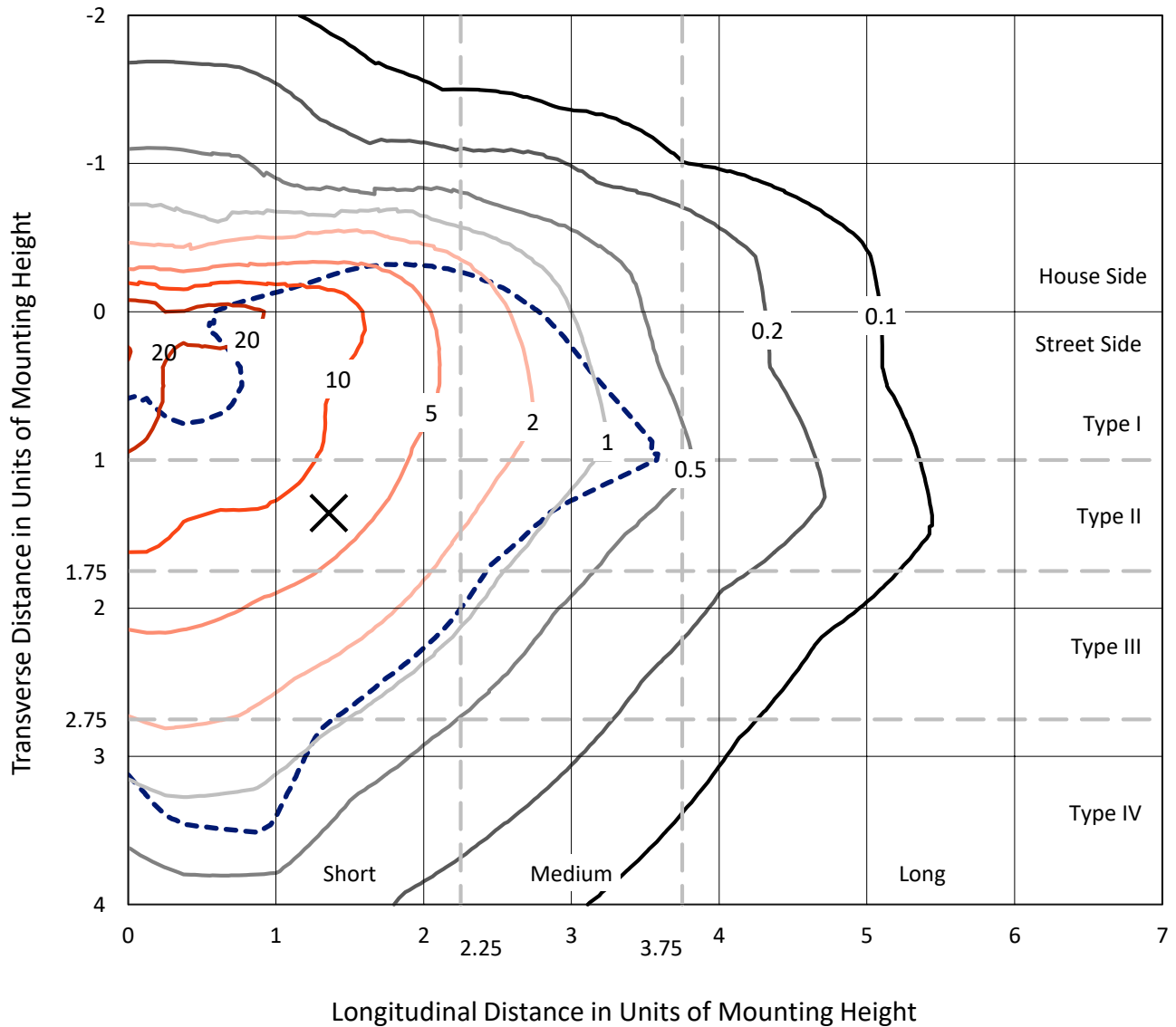


REPORT NUMBER: P199998

CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-800

Iso-Footcandle Lines of Horizontal Illumination

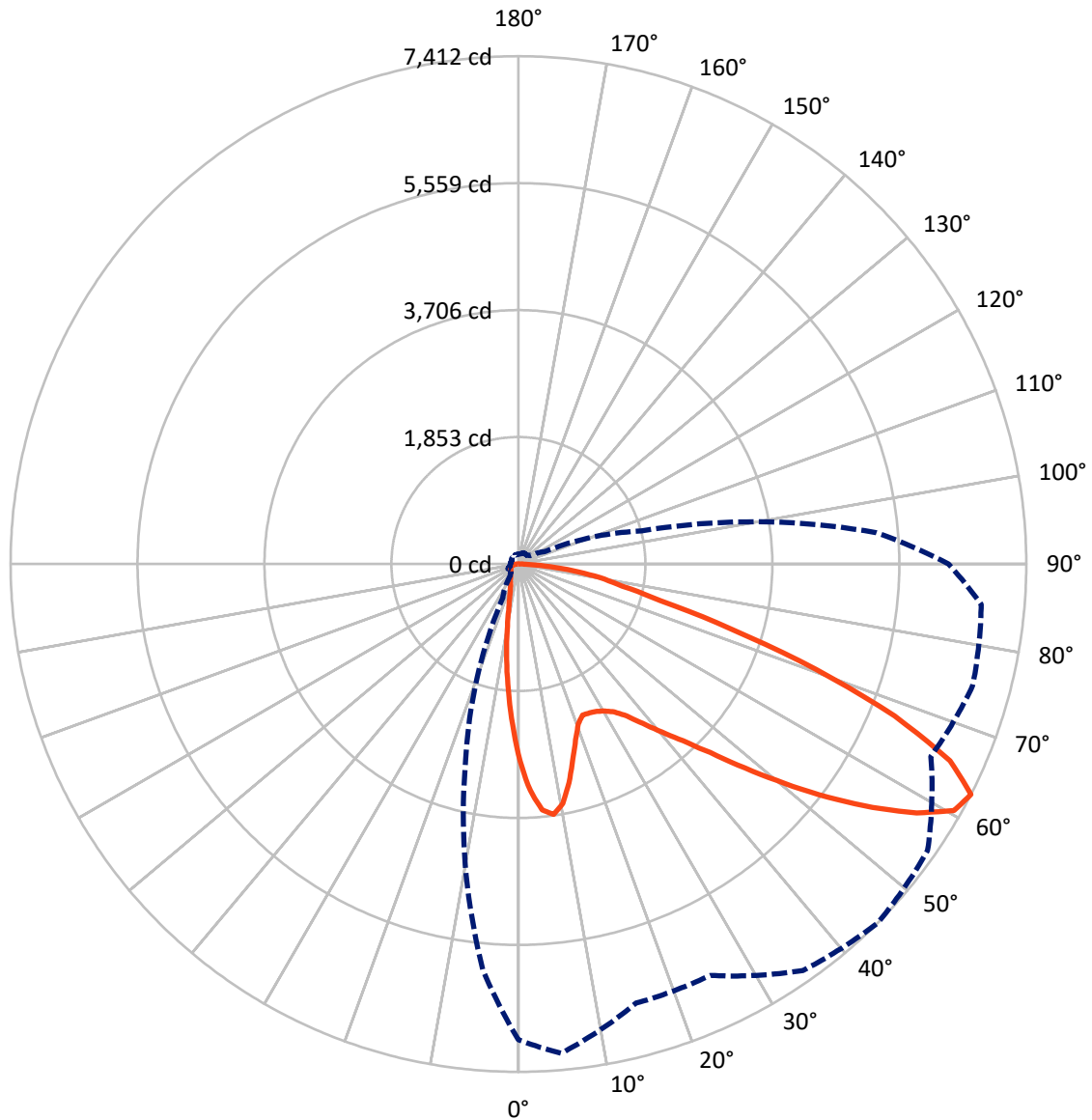
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P199998
CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P199998

CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1411.8	0.0	1411.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7119.2	0.0	7119.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	8531.0	0.0	8531.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	2.5
10°-20°	384.7	4.5
20°-30°	561.0	6.6
30°-40°	863.9	10.1
40°-50°	1271.5	14.9
50°-60°	1865.0	21.9
60°-70°	2084.8	24.4
70°-80°	1020.7	12.0
80°-90°	269.5	3.2
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°	8531.0	100.0
0°-180°	8531.0	100.0



REPORT NUMBER: P199998

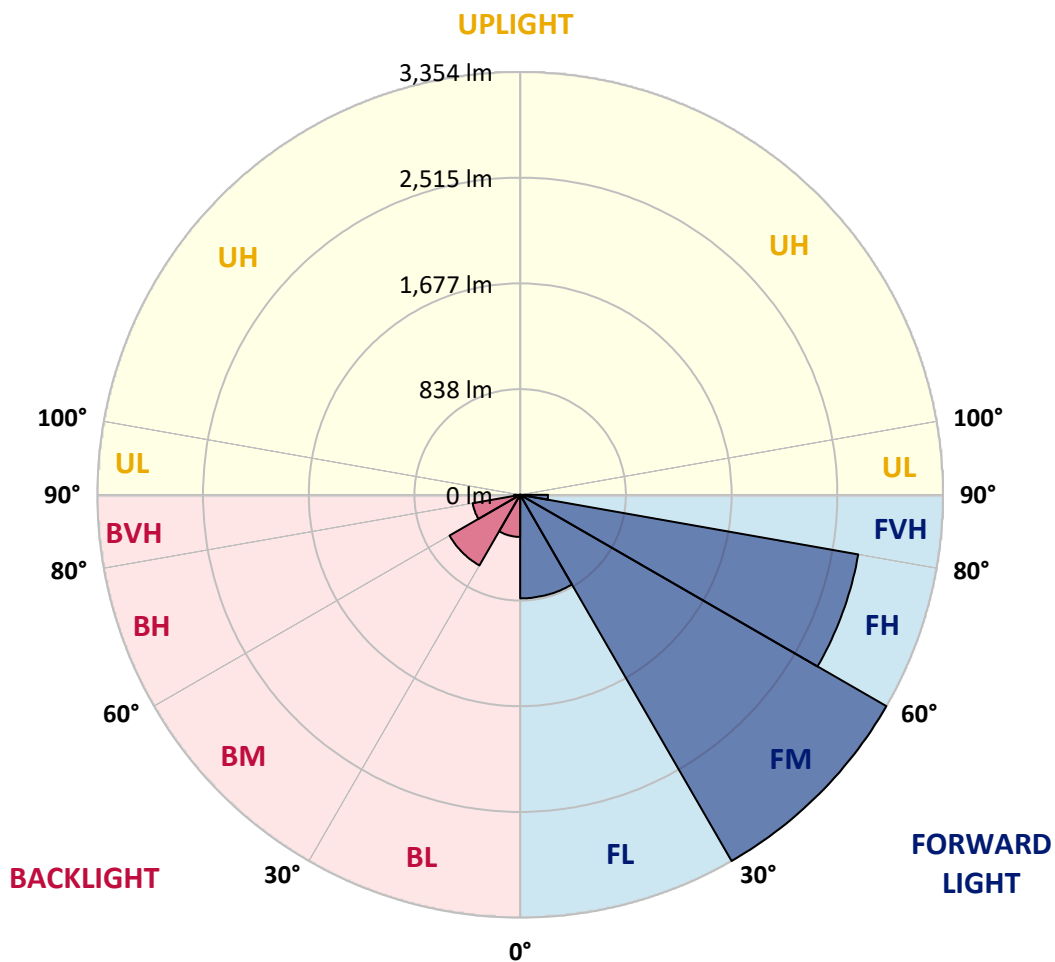
CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.5	9.6			
FM (30°-60°)	3353.6	39.3			
FH (60°-80°)	2722.8	31.9			G2/5000
FVH (80°-90°)	221.3	2.6			G2/225
BL (0°-30°)	334.0	3.9	B1/500		
BM (30°-60°)	646.9	7.6	B1/1000		
BH (60°-80°)	382.7	4.5	B1/500		G1/500
BVH (80°-90°)	48.2	0.6			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 IV Short





REPORT NUMBER: P199998

CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3
2.5°	2994.8	3042.7	3136.0	3205.7	3290.7	3310.3	3337.6	3310.9	3263.5	3200.6	3180.0
5°	2816.0	2918.4	3144.8	3344.1	3521.4	3603.9	3627.0	3558.9	3421.6	3240.9	3130.8
7.5°	2529.6	2674.8	2981.6	3275.1	3536.4	3690.7	3687.0	3529.0	3276.1	2982.1	2805.3
10°	2282.4	2448.4	2800.2	3128.4	3405.6	3555.2	3497.5	3295.4	2993.8	2655.2	2463.5
12.5°	2144.1	2306.8	2663.6	2993.3	3225.0	3276.5	3232.6	3034.6	2750.5	2408.1	2240.3
15°	2120.1	2298.9	2609.3	2877.6	3007.5	2962.4	2909.9	2821.3	2620.6	2328.5	2153.5
17.5°	2223.8	2420.7	2671.6	2796.8	2774.8	2696.5	2681.5	2691.4	2643.1	2417.1	2215.3
20°	2422.6	2659.1	2820.3	2758.9	2598.0	2490.1	2494.0	2644.5	2787.5	2641.7	2411.4
22.5°	2701.7	2971.3	3034.6	2779.0	2523.5	2395.4	2426.4	2670.3	3017.7	2969.8	2675.9
25°	3062.7	3308.5	3263.0	2852.2	2531.0	2407.2	2432.0	2759.4	3289.8	3298.2	3003.2
27.5°	3412.6	3640.5	3454.8	2949.2	2561.9	2434.9	2467.6	2899.5	3549.5	3654.6	3377.4
30°	3685.6	3844.1	3530.8	3038.0	2622.9	2488.8	2529.6	3032.7	3667.8	3895.2	3665.4
32.5°	3911.6	4025.5	3651.8	3147.6	2735.0	2573.6	2645.3	3194.5	3838.0	4124.0	3947.2
35°	4200.5	4232.8	3802.3	3270.0	2908.1	2721.3	2810.4	3353.0	4000.2	4355.2	4224.8
37.5°	4539.0	4497.3	3944.4	3437.6	3131.7	2952.5	3026.2	3527.0	4133.9	4617.4	4508.6
40°	4873.8	4773.5	4122.6	3697.3	3458.0	3225.0	3312.3	3712.7	4258.6	4879.9	4785.8
42.5°	5158.5	5009.9	4298.5	3982.8	3762.1	3525.6	3629.7	3899.9	4377.7	5104.1	5026.3
45°	5369.1	5184.4	4465.9	4257.2	4180.8	3925.1	3974.5	4114.1	4506.7	5291.2	5224.2
47.5°	5557.2	5359.7	4655.3	4533.9	4547.1	4444.7	4365.6	4363.7	4658.6	5444.2	5411.3
50°	5809.0	5603.2	4858.9	4819.0	5096.6	5028.6	4853.8	4654.9	4850.9	5617.7	5613.8
52.5°	6156.0	5988.6	5107.5	5126.2	5609.7	5654.2	5437.7	5004.7	5152.0	5936.0	5913.5
55°	6566.4	6468.8	5446.0	5479.4	6239.0	6270.9	6055.7	5442.3	5594.6	6397.0	6334.8
57.5°	6886.6	6866.1	5817.4	5903.3	6708.9	6852.4	6654.6	5948.7	6093.6	6785.3	6628.8
60°	7014.2	7114.1	6212.8	6330.9	7143.7	7302.7	7129.0	6393.8	6535.9	6946.2	6608.5
62.5°	6945.3	7168.5	6633.9	6624.1	7240.7	7411.9	7290.0	6641.5	6863.6	6780.2	6274.2
65°	6626.9	6972.9	6878.2	6548.6	6908.7	6922.7	6883.4	6530.8	6941.0	6255.4	5628.0
67.5°	5933.3	6431.3	6556.5	5901.4	6013.0	5921.6	5855.4	5924.8	6537.7	5469.0	4730.0
70°	4832.6	5582.0	5642.0	4720.1	4669.4	4608.0	4476.3	4857.4	5741.9	4482.3	3753.0
72.5°	3553.3	4341.2	4525.4	3461.9	3227.4	3240.1	3136.0	3660.7	4668.4	3329.5	2802.1
75°	2431.1	3143.4	3540.6	2415.6	2134.3	2139.4	2126.3	2593.9	3718.4	2316.2	2096.6
77.5°	1775.9	2245.9	2670.3	1624.0	1576.6	1547.5	1540.5	1814.9	2850.8	1681.7	1628.2
80°	1425.2	1659.2	1793.8	1125.5	1210.4	1208.1	1169.1	1247.8	1861.8	1230.0	1217.9
82.5°	988.6	1275.0	1453.2	882.2	816.9	803.3	812.7	929.5	1315.9	840.9	799.6
85°	521.5	847.0	1439.3	781.7	484.9	386.9	481.2	761.1	1140.0	445.6	390.2
87.5°	66.5	244.8	953.0	311.8	191.3	103.1	228.4	428.7	732.0	91.0	79.2
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: P199998

CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3
2.5°	3127.0	3064.6	2983.0	2907.5	2829.3	2751.3	2649.6	2585.8	2541.8	2533.2	2514.6
5°	3051.1	2843.8	2687.1	2551.6	2428.8	2255.2	2159.1	2079.3	2036.7	2032.4	2022.2
7.5°	2700.8	2414.6	2203.2	2011.4	1837.4	1697.2	1542.4	1470.2	1440.7	1447.6	1454.7
10°	2336.4	2016.5	1773.6	1577.6	1424.2	1306.0	1181.7	1097.8	1039.7	1027.9	1025.6
12.5°	2070.0	1719.2	1483.3	1345.0	1226.3	1115.2	983.5	884.5	808.9	783.2	765.8
15°	1957.4	1573.8	1326.7	1177.6	1046.7	905.5	783.2	679.5	610.1	587.6	574.9
17.5°	1981.3	1533.5	1218.8	1027.9	860.5	713.3	559.0	470.4	428.7	417.8	417.8
20°	2107.1	1526.1	1129.7	890.1	681.4	510.7	384.0	333.5	319.8	318.4	322.2
22.5°	2283.4	1552.2	1063.1	770.5	529.5	372.8	299.2	280.5	274.3	275.8	279.9
25°	2546.0	1640.8	1014.8	664.1	415.5	305.3	266.8	255.5	252.7	256.5	261.6
27.5°	2857.3	1729.5	984.9	583.9	350.8	279.0	253.7	242.0	243.8	248.6	253.3
30°	3130.8	1802.2	937.5	526.6	330.6	280.5	253.7	237.7	235.9	236.9	238.1
32.5°	3376.0	1851.4	882.2	472.2	285.1	249.0	236.9	234.5	224.2	220.3	220.9
35°	3587.5	1851.4	848.8	440.4	255.5	220.9	201.1	189.4	184.3	184.7	189.9
37.5°	3791.6	1814.4	832.4	422.5	239.6	210.1	192.8	182.5	175.4	173.9	175.0
40°	3971.6	1760.5	813.7	415.0	227.5	203.5	187.2	178.6	171.2	168.8	169.3
42.5°	4116.1	1716.9	793.0	405.2	219.9	198.9	183.3	175.9	167.3	165.1	164.7
45°	4272.2	1702.4	765.8	385.4	223.7	199.3	182.5	174.5	166.0	163.3	162.2
47.5°	4478.1	1747.8	737.7	362.0	231.6	201.7	183.9	174.5	165.5	163.3	162.2
50°	4737.4	1854.7	702.0	327.8	223.7	208.2	183.3	173.0	165.5	163.3	161.3
52.5°	5070.4	1999.1	655.1	288.5	218.9	224.2	182.5	170.2	163.3	159.9	156.7
55°	5475.1	2117.3	599.3	256.1	208.2	219.9	181.1	166.9	159.4	154.7	152.0
57.5°	5771.5	2160.0	527.6	234.9	193.2	212.9	179.1	162.7	154.7	151.0	147.3
60°	5712.8	2077.4	467.1	221.8	184.3	192.3	177.8	159.0	150.6	147.7	144.4
62.5°	5243.5	1861.8	428.2	215.7	178.6	175.4	179.1	155.2	146.7	144.0	143.0
65°	4539.5	1543.4	412.7	214.3	173.9	165.5	166.5	151.0	142.6	140.2	139.3
67.5°	3744.7	1245.5	399.2	218.9	167.9	158.5	153.8	145.5	138.3	136.0	134.2
70°	2953.1	1035.9	393.0	216.3	160.4	151.5	146.3	139.3	133.2	130.9	129.5
72.5°	2378.1	875.0	389.7	213.4	150.6	142.1	137.4	131.3	124.8	123.8	122.4
75°	2012.3	688.0	356.8	204.5	139.3	130.9	127.5	122.0	115.4	115.4	114.4
77.5°	1552.2	497.5	296.8	181.1	127.5	118.2	115.4	111.1	103.7	105.0	104.6
80°	1146.5	324.5	232.1	150.0	113.0	104.2	102.7	98.5	90.4	92.5	92.5
82.5°	785.5	212.9	166.9	122.9	96.5	88.2	88.2	83.9	75.1	75.9	78.7
85°	394.4	146.3	124.8	95.2	75.1	70.8	70.8	67.5	58.7	59.1	62.9
87.5°	120.0	88.2	82.5	68.0	54.0	53.0	50.7	48.3	42.7	42.2	44.6
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: P199998

CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3
2.5°	2485.9	2459.2	2426.8	2355.6	2331.7	2330.3	2351.8	2329.3	2372.4	2354.2	2374.3
5°	2004.8	1978.5	1942.4	1851.4	1796.1	1758.6	1740.8	1688.3	1726.2	1698.6	1721.6
7.5°	1474.5	1480.5	1456.5	1403.1	1282.6	1222.1	1186.4	1154.6	1182.3	1179.5	1223.4
10°	1036.5	1052.8	1035.9	982.0	884.5	851.1	857.6	870.4	906.6	925.2	993.2
12.5°	746.1	745.1	734.4	686.0	621.8	625.6	652.3	674.3	707.7	727.3	796.7
15°	557.1	548.7	544.0	504.6	468.0	476.1	489.2	491.4	512.5	524.3	580.6
17.5°	421.0	425.3	430.5	402.4	374.6	369.6	359.3	346.6	352.7	355.0	383.2
20°	334.4	351.3	364.0	344.1	316.1	301.1	287.9	279.4	279.4	279.0	287.1
22.5°	292.2	304.4	318.0	304.4	279.0	265.9	258.4	251.9	250.9	250.9	258.4
25°	269.3	278.1	291.1	281.9	263.1	253.3	246.2	237.7	234.5	233.5	238.7
27.5°	258.0	261.6	268.2	259.8	243.8	239.2	237.3	229.8	225.6	223.2	228.4
30°	238.7	237.7	238.1	229.8	217.1	216.7	219.9	221.4	219.9	219.5	227.5
32.5°	220.9	218.9	218.5	211.0	199.3	196.4	199.3	202.1	205.4	210.1	219.5
35°	198.5	203.1	205.9	199.3	185.2	176.8	173.5	168.4	165.5	165.5	176.4
37.5°	180.5	191.3	195.6	189.4	173.9	162.2	156.7	155.7	156.1	158.0	168.4
40°	174.5	182.5	186.2	180.1	164.7	153.8	150.6	149.5	150.6	153.4	163.7
42.5°	170.7	176.4	175.9	168.4	155.7	148.1	146.3	145.5	146.3	149.1	160.4
45°	167.3	171.2	167.3	158.5	146.7	143.0	143.4	143.0	144.0	146.7	157.6
47.5°	164.7	166.0	161.3	152.4	140.2	139.3	141.2	142.6	143.4	145.9	157.2
50°	160.4	160.4	156.1	146.7	134.6	135.1	137.4	140.7	141.2	144.0	152.9
52.5°	155.2	154.7	152.0	143.0	129.9	131.3	131.3	135.1	136.0	139.3	148.7
55°	151.0	150.0	148.7	140.2	125.6	128.1	126.6	128.1	130.3	133.7	144.0
57.5°	147.3	145.5	145.5	137.8	122.4	123.4	120.0	122.0	124.8	127.5	138.3
60°	143.4	141.6	142.6	134.6	117.2	116.3	114.9	118.6	119.6	122.9	133.7
62.5°	139.3	137.8	138.3	130.9	113.5	111.1	111.1	114.4	114.9	119.6	129.9
65°	136.0	134.2	133.7	127.1	109.3	106.4	107.8	109.3	110.3	114.9	124.8
67.5°	132.8	128.9	128.9	123.8	104.6	101.7	104.6	104.2	105.6	109.7	117.7
70°	128.5	123.4	123.8	121.5	99.9	96.5	99.0	98.5	99.4	102.2	110.3
72.5°	122.0	117.7	118.6	117.7	95.2	90.4	91.4	91.4	91.4	93.8	102.2
75°	113.5	110.3	113.0	115.4	89.6	83.0	83.9	83.9	82.5	83.9	94.3
77.5°	103.1	101.3	110.7	107.4	83.0	75.1	75.1	74.1	71.2	73.2	84.4
80°	91.9	90.4	102.2	90.0	75.5	65.2	64.3	62.0	59.1	60.5	71.8
82.5°	80.2	78.7	85.8	69.0	65.2	54.0	51.6	47.4	44.6	46.0	56.3
85°	65.7	65.7	66.1	52.0	49.7	41.3	38.5	32.8	29.5	30.5	40.3
87.5°	46.9	48.3	44.6	35.6	29.5	23.0	21.1	17.8	15.0	17.4	21.1
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: P199998

CATALOG NUMBER: GWC-AF-02-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3
2.5°	2477.5	2529.2	2587.7	2662.7	2727.0	2832.5	2933.8	2994.8
5°	1852.4	1938.3	2045.2	2182.6	2310.5	2502.8	2693.7	2816.0
7.5°	1325.8	1417.6	1533.0	1704.7	1885.7	2131.0	2383.3	2529.6
10°	1096.9	1191.2	1288.2	1404.1	1552.2	1819.0	2117.3	2282.4
12.5°	907.4	1008.3	1112.8	1234.7	1372.2	1610.4	1954.1	2144.1
15°	694.6	807.1	930.5	1084.7	1256.8	1532.1	1913.7	2120.1
17.5°	476.1	601.7	753.2	943.6	1154.1	1506.8	1986.0	2223.8
20°	327.8	419.2	581.0	804.2	1057.5	1503.5	2124.9	2422.6
22.5°	274.3	315.1	433.3	676.2	984.9	1543.9	2340.2	2701.7
25°	253.7	278.1	346.2	565.1	931.9	1636.7	2636.5	3062.7
27.5°	241.5	263.6	314.2	492.4	890.1	1744.6	2924.9	3412.6
30°	246.2	268.7	305.3	455.4	833.3	1834.6	3181.0	3685.6
32.5°	221.8	231.6	261.6	422.5	792.5	1910.1	3405.1	3911.6
35°	189.0	206.4	233.5	407.1	793.4	1960.7	3649.5	4200.5
37.5°	180.1	197.4	217.1	401.4	804.2	2014.6	3929.8	4539.0
40°	174.5	190.4	207.3	398.1	814.5	2063.9	4204.8	4873.8
42.5°	170.7	185.2	206.4	386.9	819.8	2107.9	4430.7	5158.5
45°	170.2	185.2	210.1	375.7	827.7	2155.3	4620.1	5369.1
47.5°	170.7	191.3	203.1	362.0	827.7	2234.6	4842.5	5557.2
50°	168.8	201.7	195.6	342.8	808.5	2384.7	5147.3	5809.0
52.5°	167.9	200.3	181.1	313.2	775.2	2622.9	5538.0	6156.0
55°	165.5	193.2	170.7	269.3	736.3	2882.7	5956.3	6566.4
57.5°	163.3	171.2	165.1	230.7	676.2	3065.6	6244.1	6886.6
60°	182.9	149.5	160.4	212.0	596.0	3115.7	6232.9	7014.2
62.5°	169.3	140.2	154.3	207.7	539.7	2975.0	5945.1	6945.3
65°	132.8	134.2	148.1	219.9	524.8	2602.2	5434.8	6626.9
67.5°	121.5	128.1	142.1	235.5	526.2	2083.6	4672.3	5933.3
70°	114.4	121.5	135.1	243.4	529.9	1553.2	3693.9	4832.6
72.5°	106.4	112.5	127.1	244.8	505.6	1128.3	2847.1	3553.3
75°	97.0	102.7	115.9	213.4	418.8	782.8	2177.9	2431.1
77.5°	86.4	90.4	101.7	164.7	311.0	500.9	1634.7	1775.9
80°	73.6	75.9	85.3	120.5	212.9	313.2	1293.4	1425.2
82.5°	59.1	60.0	66.1	90.4	138.3	201.1	866.2	988.6
85°	41.7	41.7	45.5	65.7	94.3	127.5	470.4	521.5
87.5°	19.6	20.2	20.2	36.0	49.2	64.7	108.2	66.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)