

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: P270168

Luminaire Tested: **GWC-AF-01-LED-E1-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270168
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-01-LED-E1-SLL-7027-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5324.5 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

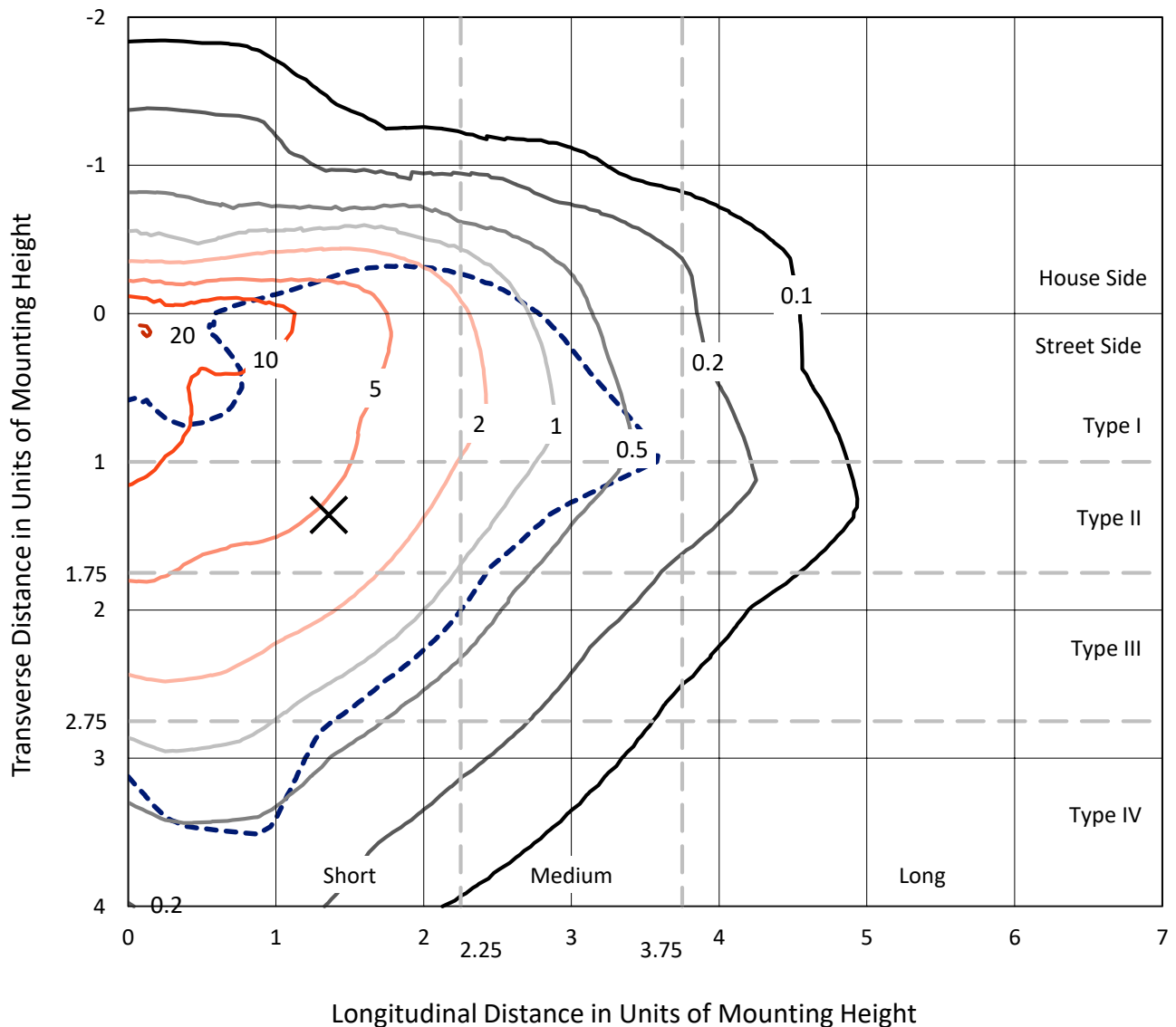
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P270168
 CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

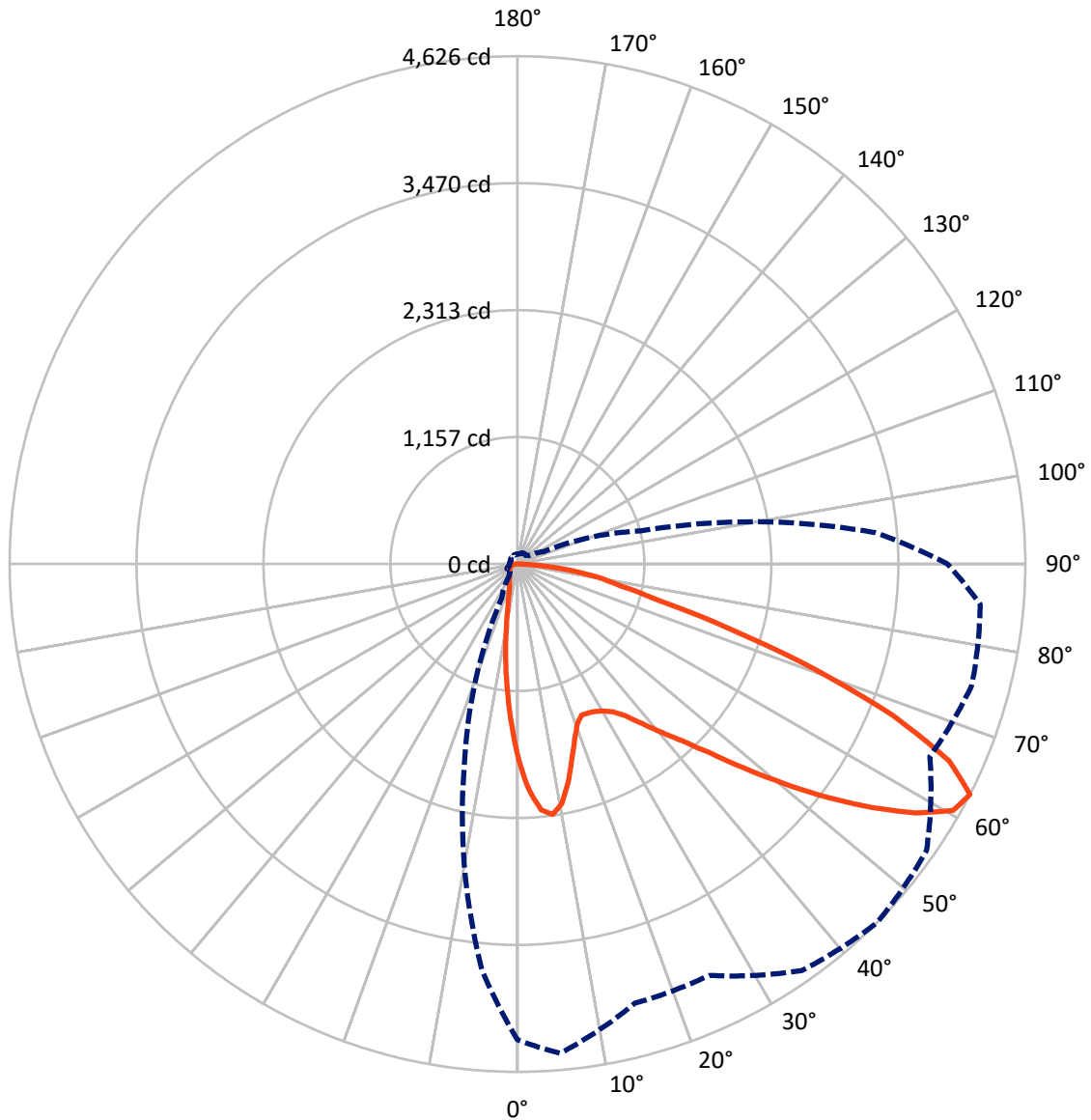
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P270168
CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-7027-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P270168

CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	881.1	0.0	881.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4443.4	0.0	4443.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	5324.5	0.0	5324.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	2.5
10°-20°	240.1	4.5
20°-30°	350.1	6.6
30°-40°	539.2	10.1
40°-50°	793.6	14.9
50°-60°	1164.0	21.9
60°-70°	1301.2	24.4
70°-80°	637.1	12.0
80°-90°	168.2	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°	5324.5	100.0
0°-180°	5324.5	100.0



REPORT NUMBER: P270168

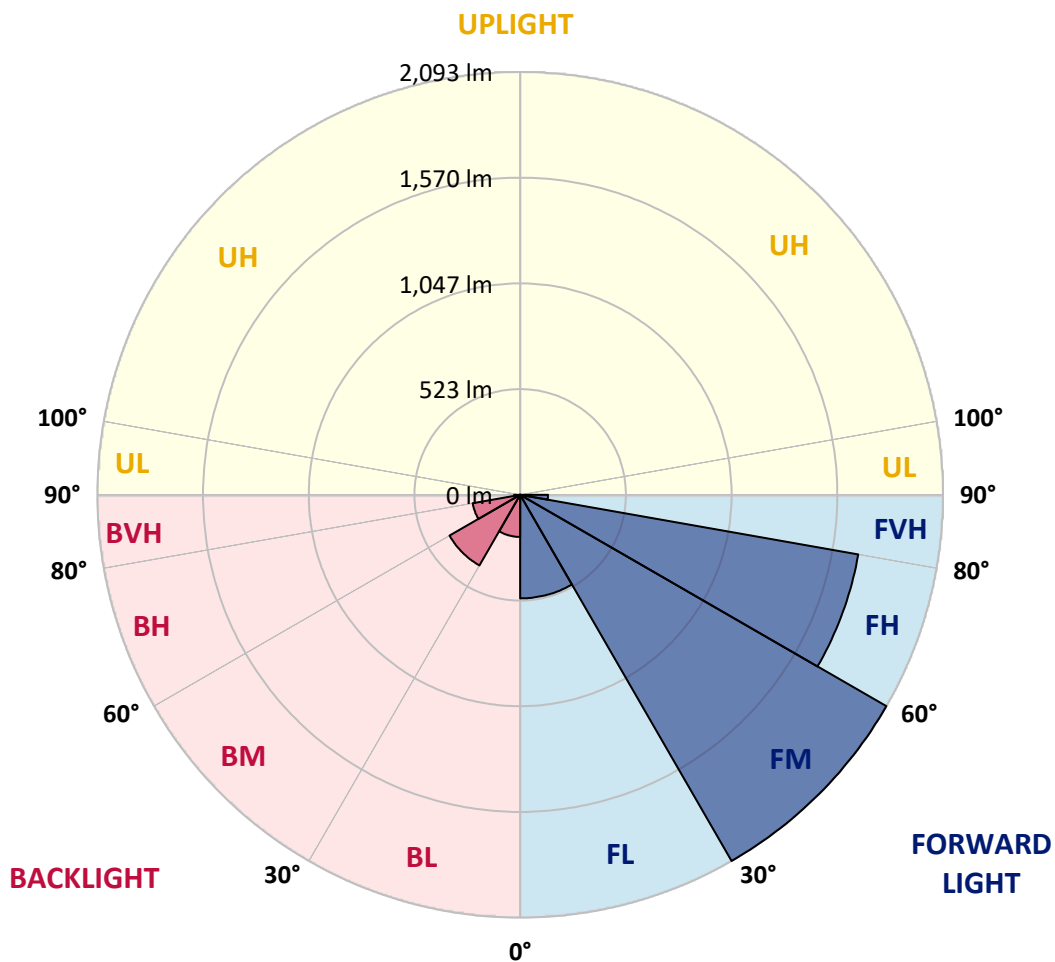
CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.7	9.6			
FM (30°-60°)	2093.1	39.3			
FH (60°-80°)	1699.4	31.9			G1/1800
FVH (80°-90°)	138.1	2.6			G2/225
BL (0°-30°)	208.5	3.9	B1/500		
BM (30°-60°)	403.7	7.6	B1/1000		
BH (60°-80°)	238.9	4.5	B1/500		G1/500
BVH (80°-90°)	30.1	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: P270168

CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9
2.5°	1869.2	1898.9	1957.2	2000.9	2053.9	2066.1	2083.1	2066.5	2036.8	1997.7	1984.7
5°	1757.7	1821.5	1962.8	2087.2	2197.9	2249.4	2263.6	2221.2	2135.5	2022.9	1954.1
7.5°	1578.9	1669.5	1861.0	2044.3	2207.2	2303.6	2301.2	2202.6	2044.8	1861.3	1750.8
10°	1424.5	1528.1	1747.7	1952.6	2125.6	2219.0	2182.9	2056.8	1868.6	1657.3	1537.4
12.5°	1338.3	1439.8	1662.6	1868.3	2012.9	2045.1	2017.6	1894.0	1716.8	1503.0	1398.2
15°	1323.4	1434.9	1628.5	1796.0	1877.1	1849.0	1816.3	1760.9	1635.6	1453.3	1344.0
17.5°	1388.1	1510.9	1667.6	1745.6	1731.9	1683.1	1673.6	1679.8	1649.6	1508.6	1382.8
20°	1512.0	1659.6	1760.3	1722.0	1621.5	1554.2	1556.6	1650.5	1739.7	1648.7	1505.0
22.5°	1686.2	1854.6	1894.0	1734.4	1575.0	1495.0	1514.5	1666.6	1883.4	1853.7	1670.0
25°	1911.7	2064.9	2036.5	1780.3	1579.7	1502.4	1518.0	1722.2	2053.3	2058.6	1874.5
27.5°	2129.9	2272.3	2156.3	1840.7	1599.1	1519.8	1540.1	1809.7	2215.4	2280.9	2108.1
30°	2300.3	2399.3	2203.7	1896.1	1637.0	1553.3	1578.9	1892.9	2289.2	2431.2	2287.8
32.5°	2441.4	2512.5	2279.2	1964.6	1707.0	1606.3	1651.2	1993.9	2395.4	2574.0	2463.6
35°	2621.8	2641.8	2373.2	2040.9	1815.0	1698.5	1754.1	2092.8	2496.7	2718.4	2637.0
37.5°	2833.1	2806.9	2461.8	2145.4	1954.6	1842.9	1888.7	2201.3	2580.1	2881.9	2814.0
40°	3042.0	2979.4	2573.0	2307.7	2158.4	2012.9	2067.3	2317.3	2657.9	3045.9	2987.0
42.5°	3219.6	3126.9	2682.9	2485.9	2348.0	2200.5	2265.4	2434.0	2732.4	3185.7	3137.2
45°	3351.0	3235.8	2787.4	2657.0	2609.3	2449.9	2480.6	2567.8	2812.9	3302.4	3260.7
47.5°	3468.4	3345.3	2905.6	2829.8	2837.9	2774.1	2724.6	2723.5	2907.6	3397.8	3377.4
50°	3625.6	3497.1	3032.7	3007.7	3181.0	3138.6	3029.4	2905.3	3027.6	3506.3	3503.8
52.5°	3842.2	3737.8	3187.7	3199.5	3501.2	3529.0	3393.8	3123.6	3215.6	3705.0	3690.9
55°	4098.3	4037.4	3399.0	3419.8	3894.1	3913.9	3779.6	3396.8	3491.9	3992.6	3953.7
57.5°	4298.3	4285.4	3630.9	3684.5	4187.3	4276.9	4153.4	3712.9	3803.3	4235.0	4137.2
60°	4377.9	4440.2	3877.7	3951.5	4458.6	4557.9	4449.6	3990.6	4079.4	4335.4	4124.7
62.5°	4334.9	4474.2	4140.5	4134.4	4519.3	4626.1	4549.9	4145.1	4283.8	4231.8	3916.0
65°	4136.1	4352.1	4293.0	4087.2	4312.0	4320.8	4296.2	4076.1	4332.2	3904.4	3512.6
67.5°	3703.3	4014.0	4092.1	3683.3	3752.9	3695.8	3654.7	3698.0	4080.6	3413.4	2952.1
70°	3016.2	3483.9	3521.4	2946.0	2914.5	2876.1	2793.8	3031.8	3583.8	2797.6	2342.5
72.5°	2217.7	2709.5	2824.5	2160.8	2014.3	2022.3	1957.2	2284.7	2913.8	2078.1	1748.9
75°	1517.3	1962.0	2209.9	1507.6	1332.0	1335.3	1327.1	1618.9	2320.9	1445.6	1308.7
77.5°	1108.5	1401.7	1666.6	1013.6	984.1	965.9	961.5	1132.8	1779.4	1049.6	1016.3
80°	889.5	1035.6	1119.6	702.5	755.5	753.9	729.8	778.9	1162.0	767.7	760.1
82.5°	617.0	795.9	907.1	550.7	509.9	501.4	507.3	580.1	821.3	524.8	499.1
85°	325.5	528.7	898.2	487.9	302.6	241.5	300.4	475.1	711.5	278.0	243.5
87.5°	41.5	152.8	594.8	194.7	119.5	64.4	142.6	267.5	456.9	56.9	49.4
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: P270168

CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9
2.5°	1951.7	1912.9	1861.8	1814.8	1765.9	1717.3	1653.7	1614.0	1586.3	1581.1	1569.5
5°	1904.2	1775.0	1677.1	1592.5	1515.9	1407.6	1347.5	1297.8	1271.2	1268.5	1262.1
7.5°	1685.6	1507.0	1375.0	1255.4	1146.7	1059.3	962.7	917.6	899.2	903.5	907.9
10°	1458.2	1258.5	1107.0	984.6	889.0	815.1	737.6	685.1	648.9	641.6	640.1
12.5°	1291.9	1073.0	925.9	839.5	765.4	696.0	613.8	552.0	504.8	488.8	478.0
15°	1221.8	982.2	828.1	735.0	653.2	565.3	488.8	424.1	380.8	366.8	358.9
17.5°	1236.6	957.1	760.8	641.6	537.0	445.2	348.9	293.6	267.5	260.8	260.8
20°	1315.1	952.5	705.1	555.5	425.3	318.8	239.7	208.0	199.7	198.7	201.1
22.5°	1425.2	968.8	663.6	481.0	330.4	232.8	186.8	175.0	171.2	172.1	174.7
25°	1589.0	1024.2	633.3	414.5	259.3	190.5	166.5	159.4	157.7	160.1	163.3
27.5°	1783.5	1079.5	614.7	364.4	218.9	174.1	158.3	151.1	152.3	155.1	158.0
30°	1954.1	1124.9	585.1	328.7	206.3	175.0	158.3	148.4	147.2	147.9	148.7
32.5°	2107.2	1155.6	550.7	294.7	178.0	155.4	147.9	146.3	139.9	137.6	137.9
35°	2239.1	1155.6	529.8	274.8	159.4	137.9	125.6	118.2	115.1	115.3	118.5
37.5°	2366.4	1132.5	519.5	263.7	149.6	131.2	120.4	113.8	109.5	108.5	109.1
40°	2478.9	1098.7	507.8	259.0	141.9	127.0	116.8	111.5	106.9	105.5	105.7
42.5°	2569.1	1071.6	495.0	253.0	137.4	124.1	114.4	109.8	104.6	103.0	102.8
45°	2666.4	1062.4	478.0	240.6	139.6	124.3	113.8	108.9	103.7	101.9	101.2
47.5°	2794.9	1090.9	460.4	226.0	144.5	125.9	114.8	108.9	103.3	101.9	101.2
50°	2956.9	1157.6	438.2	204.6	139.6	130.0	114.4	107.9	103.3	101.9	100.7
52.5°	3164.5	1247.7	408.9	180.0	136.7	139.9	113.8	106.3	101.9	99.8	97.7
55°	3417.2	1321.5	374.1	159.8	130.0	137.4	112.9	104.3	99.5	96.6	94.9
57.5°	3602.3	1348.1	329.3	146.7	120.6	132.9	111.7	101.6	96.6	94.2	91.8
60°	3565.6	1296.7	291.5	138.5	115.1	120.1	110.9	99.3	94.0	92.2	90.2
62.5°	3272.6	1162.0	267.2	134.7	111.5	109.5	111.7	96.8	91.5	89.9	89.3
65°	2833.3	963.3	257.5	133.8	108.5	103.3	103.9	94.2	89.0	87.6	87.0
67.5°	2337.2	777.5	249.1	136.7	104.8	99.0	95.9	90.6	86.3	84.9	83.7
70°	1843.1	646.6	245.2	134.9	100.2	94.5	91.3	87.0	83.2	81.7	80.8
72.5°	1484.3	546.2	243.3	133.2	94.0	88.8	85.8	81.9	77.9	77.3	76.4
75°	1256.0	429.4	222.7	127.6	87.0	81.7	79.6	76.0	72.0	72.0	71.4
77.5°	968.8	310.5	185.3	112.9	79.6	73.8	72.0	69.3	64.7	65.5	65.2
80°	715.6	202.6	144.8	93.7	70.5	64.9	64.0	61.4	56.6	57.6	57.6
82.5°	490.3	132.9	104.3	76.6	60.2	55.1	55.1	52.5	46.8	47.4	49.1
85°	246.1	91.3	77.9	59.4	46.8	44.1	44.1	42.1	36.7	36.9	39.3
87.5°	74.9	55.1	51.6	42.4	33.6	33.1	31.6	30.2	26.6	26.3	27.8
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: P270168

CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9
2.5°	1551.6	1534.9	1514.7	1470.3	1455.3	1454.4	1467.9	1453.8	1480.8	1469.4	1481.9
5°	1251.2	1234.9	1212.4	1155.6	1121.1	1097.5	1086.5	1053.7	1077.3	1060.2	1074.6
7.5°	920.3	924.0	909.2	875.8	800.5	762.8	740.6	720.6	737.9	736.2	763.6
10°	646.9	657.1	646.6	613.0	552.0	531.3	535.3	543.3	565.8	577.5	619.9
12.5°	465.7	465.1	458.3	428.2	388.1	390.5	407.1	420.9	441.6	454.0	497.3
15°	347.7	342.4	339.5	314.9	292.0	297.1	305.2	306.7	319.9	327.3	362.3
17.5°	262.8	265.4	268.8	251.2	233.9	230.7	224.1	216.3	220.2	221.6	239.0
20°	208.6	219.2	227.1	214.9	197.3	187.9	179.8	174.5	174.5	174.1	179.1
22.5°	182.4	189.9	198.4	189.9	174.1	165.9	161.2	157.2	156.6	156.6	161.2
25°	168.1	173.6	181.7	175.9	164.2	158.0	153.7	148.4	146.3	145.7	148.9
27.5°	160.9	163.3	167.4	162.1	152.3	149.3	148.1	143.4	140.8	139.3	142.6
30°	148.9	148.4	148.7	143.4	135.6	135.3	137.4	138.2	137.4	137.0	141.9
32.5°	137.9	136.7	136.5	131.7	124.3	122.7	124.3	126.1	128.2	131.2	137.0
35°	123.7	126.8	128.5	124.3	115.6	110.3	108.2	105.1	103.3	103.3	110.0
37.5°	112.6	119.5	122.1	118.2	108.5	101.2	97.7	97.1	97.5	98.6	105.1
40°	108.9	113.8	116.2	112.4	102.8	95.9	94.0	93.3	94.0	95.7	102.1
42.5°	106.5	110.0	109.8	105.1	97.1	92.4	91.3	90.6	91.3	93.1	100.2
45°	104.6	106.9	104.6	99.0	91.5	89.3	89.7	89.3	89.9	91.5	98.4
47.5°	102.8	103.7	100.7	95.1	87.6	87.0	88.2	89.0	89.7	91.0	98.1
50°	100.2	100.2	97.5	91.5	84.0	84.4	85.8	87.9	88.2	89.9	95.4
52.5°	96.8	96.6	94.9	89.3	81.0	81.9	81.9	84.4	84.9	87.0	92.7
55°	94.2	93.7	92.7	87.6	78.4	79.9	79.1	79.9	81.3	83.5	89.9
57.5°	91.8	90.6	90.6	86.1	76.4	77.0	74.9	76.0	77.9	79.6	86.3
60°	89.7	88.5	89.0	84.0	73.2	72.7	71.8	74.0	74.6	76.6	83.5
62.5°	87.0	86.1	86.3	81.7	70.8	69.3	69.3	71.4	71.8	74.6	81.0
65°	84.9	83.7	83.5	79.3	68.2	66.5	67.4	68.2	68.8	71.8	77.9
67.5°	82.9	80.5	80.5	77.3	65.2	63.5	65.2	64.9	65.8	68.5	73.5
70°	80.2	77.0	77.3	75.7	62.3	60.2	61.8	61.4	62.1	63.8	68.8
72.5°	76.0	73.5	74.0	73.5	59.4	56.6	57.1	57.1	57.1	58.5	63.8
75°	70.8	68.8	70.5	72.0	56.0	51.8	52.5	52.5	51.6	52.5	58.7
77.5°	64.4	63.2	69.1	67.1	51.8	46.8	46.8	46.3	44.5	45.6	52.7
80°	57.4	56.6	63.8	56.2	47.2	40.8	40.2	38.6	36.9	37.8	44.7
82.5°	50.0	49.1	53.5	42.9	40.8	33.6	32.2	29.6	27.8	28.7	35.2
85°	41.1	41.1	41.2	32.5	31.0	25.7	24.1	20.5	18.4	19.0	25.2
87.5°	29.3	30.2	27.8	22.3	18.4	14.4	13.1	11.0	9.3	10.8	13.1
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: P270168

CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9
2.5°	1546.3	1578.5	1615.2	1662.0	1702.0	1767.9	1831.1	1869.2
5°	1156.2	1209.7	1276.4	1362.2	1442.0	1562.2	1681.3	1757.7
7.5°	827.5	884.8	956.9	1064.0	1176.9	1330.0	1487.6	1578.9
10°	684.6	743.4	804.1	876.3	968.8	1135.4	1321.5	1424.5
12.5°	566.4	629.4	694.6	770.7	856.4	1005.2	1219.7	1338.3
15°	433.5	503.7	580.8	677.1	784.4	956.2	1194.4	1323.4
17.5°	297.1	375.5	470.1	588.8	720.4	940.4	1239.7	1388.1
20°	204.6	261.6	362.6	502.0	660.1	938.4	1326.2	1512.0
22.5°	171.2	196.6	270.5	422.1	614.7	963.5	1460.6	1686.2
25°	158.3	173.6	216.0	352.8	581.7	1021.6	1645.5	1911.7
27.5°	150.7	164.5	196.1	307.3	555.5	1088.8	1825.5	2129.9
30°	153.7	167.8	190.5	284.3	520.1	1145.0	1985.3	2300.3
32.5°	138.5	144.5	163.3	263.7	494.6	1192.1	2125.3	2441.4
35°	117.9	128.7	145.7	254.1	495.2	1223.9	2277.7	2621.8
37.5°	112.4	123.2	135.6	250.5	502.0	1257.4	2452.8	2833.1
40°	108.9	118.8	129.4	248.6	508.4	1288.2	2624.3	3042.0
42.5°	106.5	115.6	128.7	241.5	511.7	1315.7	2765.4	3219.6
45°	106.3	115.6	131.2	234.5	516.6	1345.2	2883.6	3351.0
47.5°	106.5	119.5	126.8	226.0	516.6	1394.7	3022.3	3468.4
50°	105.5	125.9	122.1	213.9	504.6	1488.3	3212.7	3625.6
52.5°	104.8	125.0	112.9	195.6	483.8	1637.0	3456.5	3842.2
55°	103.3	120.6	106.5	168.1	459.6	1799.2	3717.5	4098.3
57.5°	101.9	106.9	103.0	144.0	422.1	1913.4	3897.2	4298.3
60°	114.2	93.3	100.2	132.3	372.0	1944.7	3890.2	4377.9
62.5°	105.7	87.6	96.3	129.6	337.0	1856.8	3710.4	4334.9
65°	82.9	83.7	92.4	137.4	327.5	1624.1	3392.1	4136.1
67.5°	75.7	79.9	88.8	147.0	328.4	1300.4	2916.2	3703.3
70°	71.4	75.7	84.4	152.0	330.8	969.5	2305.6	3016.2
72.5°	66.5	70.2	79.3	152.8	315.6	704.2	1776.9	2217.7
75°	60.5	64.0	72.4	133.2	261.3	488.5	1359.2	1517.3
77.5°	53.9	56.6	63.5	102.8	194.0	312.6	1020.4	1108.5
80°	46.0	47.4	53.3	75.2	132.9	195.6	807.2	889.5
82.5°	36.9	37.5	41.2	56.6	86.3	125.6	540.6	617.0
85°	26.1	26.1	28.3	41.1	58.7	79.6	293.6	325.5
87.5°	12.2	12.5	12.5	22.5	30.7	40.5	67.6	41.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)