

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: P200157

Luminaire Tested: **GWC-AF-01-LED-E1-SLL-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200157  
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-800  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 800mA 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: 4618.6 lumens  
Efficiency: N/A  
Efficacy: 105.0 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

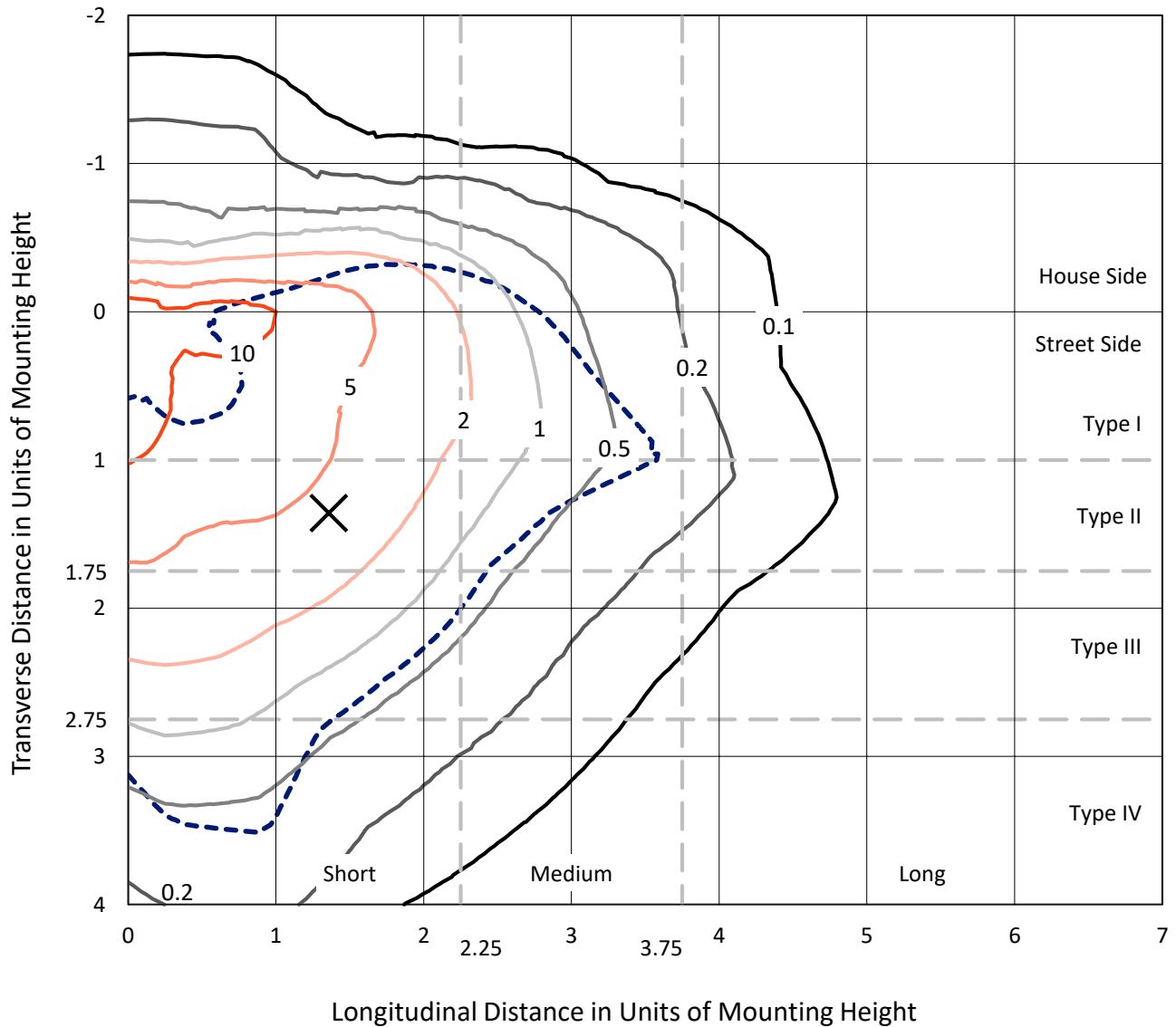
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P200157  
 CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-800

### Iso-Footcandle Lines of Horizontal Illumination

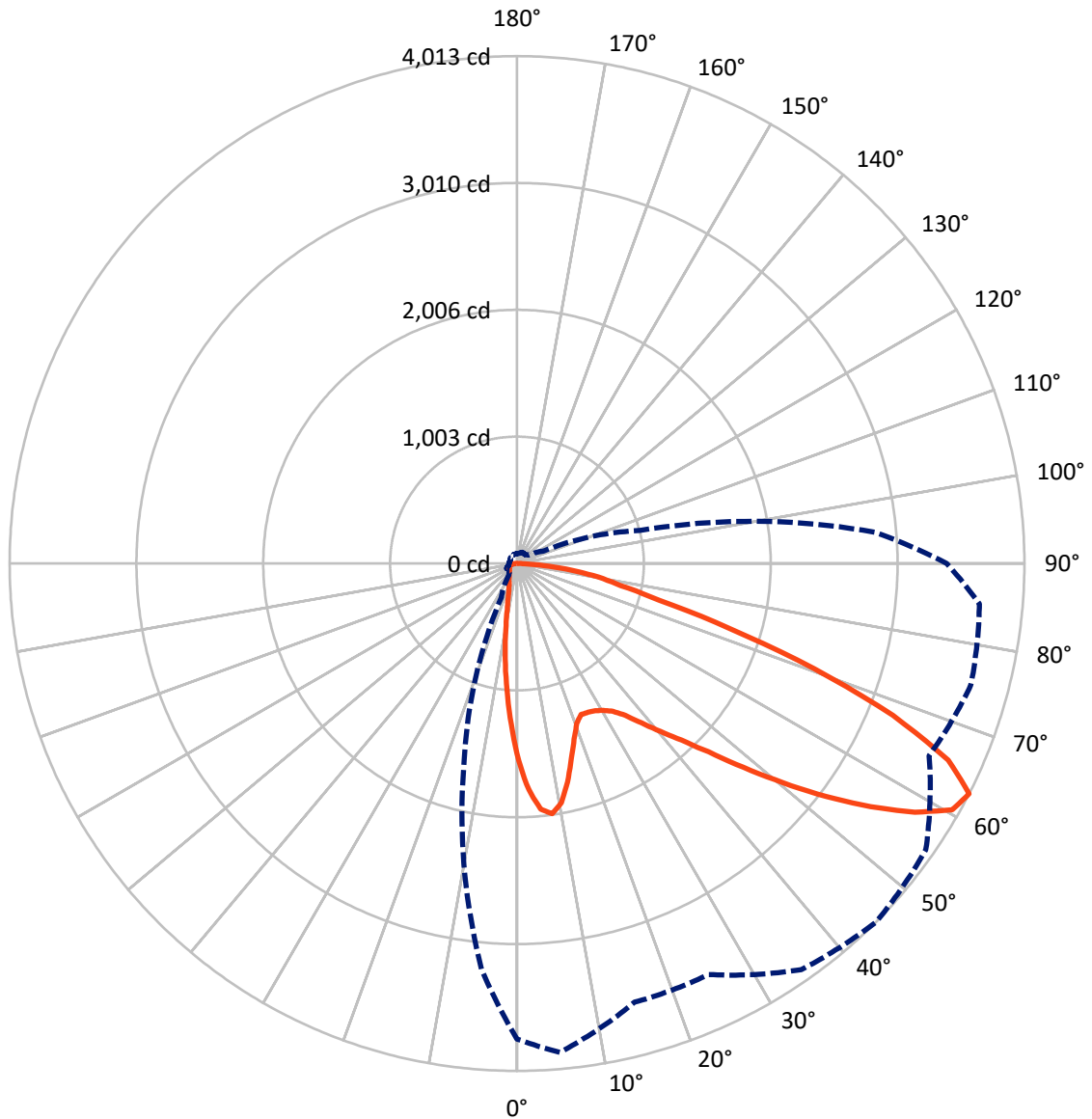
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P200157  
CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P200157

CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-800

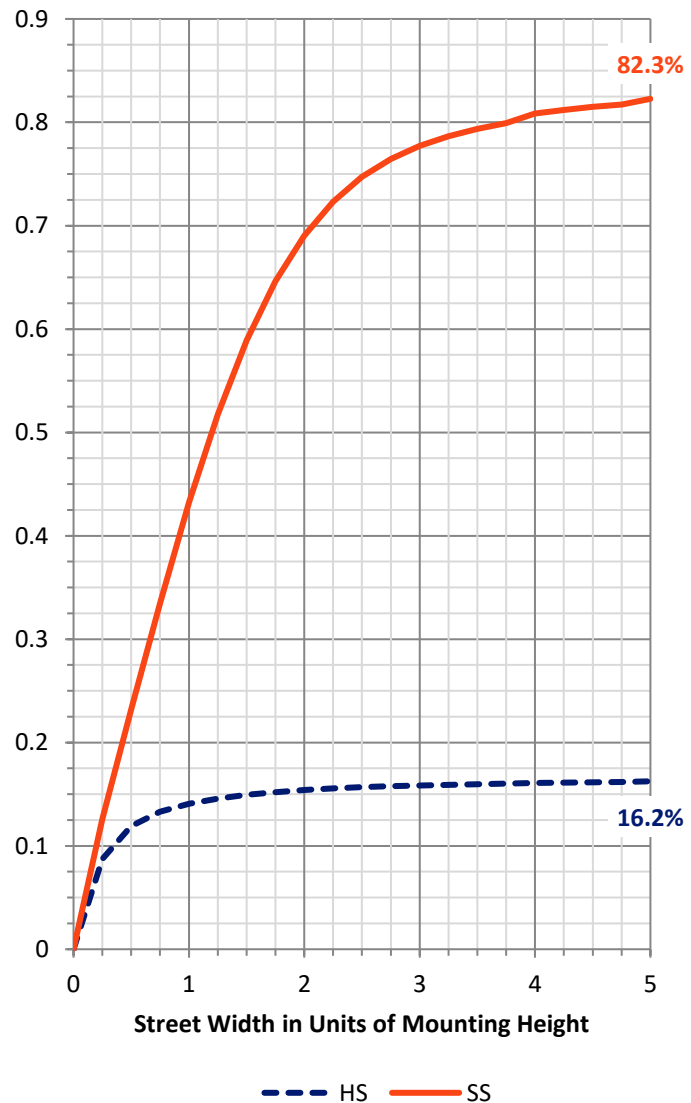
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	764.3	0.0	764.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3854.3	0.0	3854.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	4618.6	0.0	4618.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.6	2.5
10°-20°	208.3	4.5
20°-30°	303.7	6.6
30°-40°	467.7	10.1
40°-50°	688.4	14.9
50°-60°	1009.7	21.9
60°-70°	1128.7	24.4
70°-80°	552.6	12.0
80°-90°	145.9	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°	4618.6	100.0
0°-180°	4618.6	100.0



REPORT NUMBER: P200157

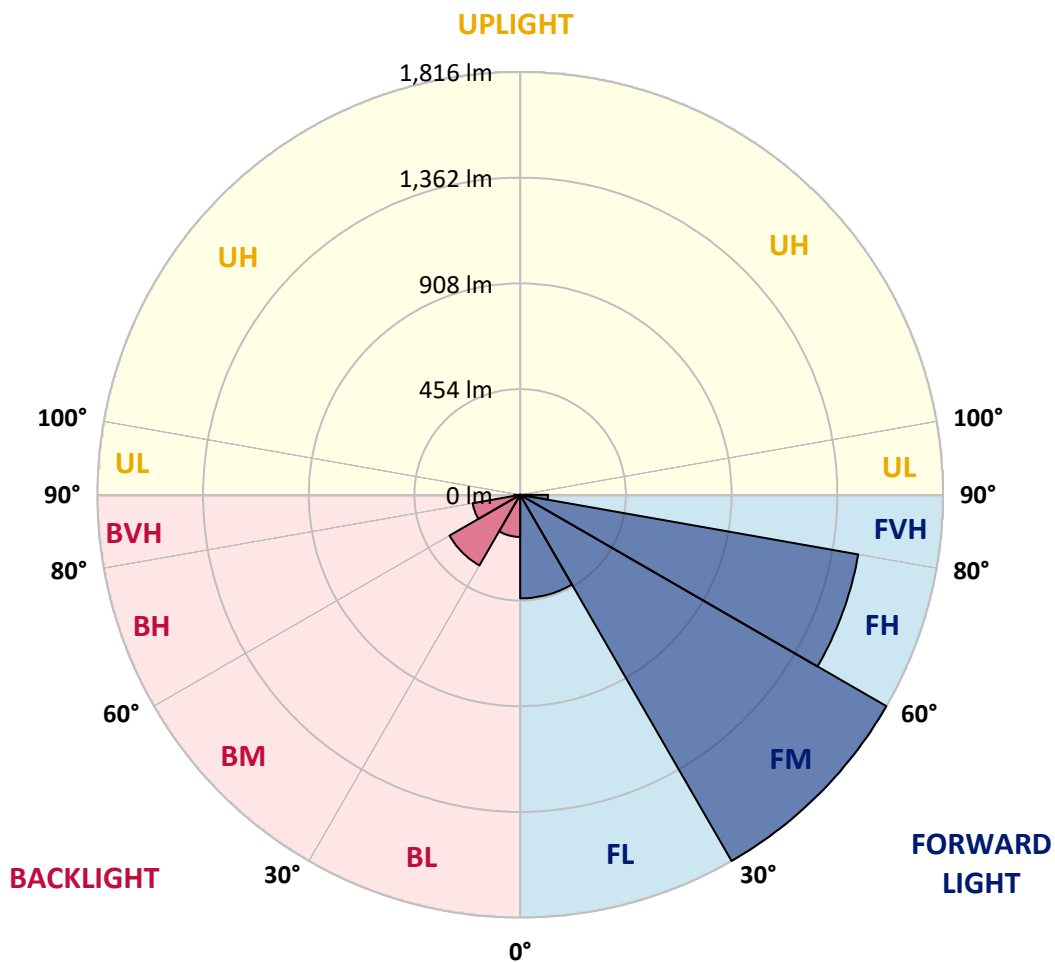
CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-800

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.8	9.6			
FM	(30°-60°)	1815.6	39.3			
FH	(60°-80°)	1474.1	31.9			G1/1800
FVH	(80°-90°)	119.8	2.6			G2/225
BL	(0°-30°)	180.8	3.9	B1/500		
BM	(30°-60°)	350.2	7.6	B1/1000		
BH	(60°-80°)	207.2	4.5	B1/500		G1/500
BVH	(80°-90°)	26.1	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: P200157

CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4
2.5°	1621.4	1647.3	1697.8	1735.6	1781.6	1792.2	1806.9	1792.5	1766.8	1732.8	1721.6
5°	1524.6	1579.9	1702.6	1810.5	1906.5	1951.2	1963.6	1926.8	1852.4	1754.7	1695.0
7.5°	1369.5	1448.2	1614.2	1773.2	1914.6	1998.1	1996.1	1910.6	1773.7	1614.5	1518.8
10°	1235.7	1325.5	1516.0	1693.7	1843.8	1924.8	1893.5	1784.1	1620.9	1437.6	1333.7
12.5°	1160.8	1248.9	1442.2	1620.6	1746.0	1773.9	1750.1	1643.0	1489.1	1303.8	1212.8
15°	1147.9	1244.6	1412.7	1557.9	1628.2	1603.9	1575.4	1527.4	1418.7	1260.6	1165.9
17.5°	1203.9	1310.6	1446.5	1514.2	1502.3	1459.9	1451.8	1457.1	1430.9	1308.6	1199.4
20°	1311.6	1439.6	1526.9	1493.6	1406.6	1348.1	1350.2	1431.7	1509.2	1430.2	1305.5
22.5°	1462.7	1608.7	1643.0	1504.6	1366.2	1296.9	1313.7	1445.6	1633.8	1607.9	1448.7
25°	1658.2	1791.2	1766.5	1544.1	1370.2	1303.2	1316.6	1493.9	1781.1	1785.7	1625.9
27.5°	1847.6	1970.9	1870.5	1596.7	1387.0	1318.2	1336.0	1569.8	1921.7	1978.6	1828.5
30°	1995.4	2081.2	1911.6	1644.7	1420.1	1347.4	1369.5	1641.9	1985.6	2108.8	1984.4
32.5°	2117.7	2179.4	1977.1	1704.1	1480.7	1393.4	1432.2	1729.5	2077.8	2232.7	2137.0
35°	2274.1	2291.6	2058.6	1770.4	1574.4	1473.4	1521.5	1815.3	2165.7	2357.9	2287.3
37.5°	2457.4	2434.8	2135.5	1861.1	1695.5	1598.5	1638.4	1909.5	2238.0	2499.8	2441.0
40°	2638.7	2584.4	2232.0	2001.7	1872.2	1746.0	1793.2	2010.1	2305.6	2642.0	2590.9
42.5°	2792.9	2712.4	2327.2	2156.3	2036.7	1908.7	1965.1	2111.4	2370.1	2763.4	2721.3
45°	2906.8	2806.8	2417.8	2304.8	2263.5	2125.1	2151.8	2227.4	2439.9	2864.7	2828.4
47.5°	3008.6	2901.7	2520.3	2454.7	2461.7	2406.4	2363.5	2362.5	2522.2	2947.4	2929.6
50°	3145.0	3033.5	2630.6	2609.0	2759.3	2722.5	2627.8	2520.1	2626.2	3041.3	3039.3
52.5°	3332.9	3242.2	2765.1	2775.3	3037.0	3061.2	2943.8	2709.5	2789.3	3213.8	3201.5
55°	3555.0	3502.2	2948.5	2966.5	3377.8	3395.1	3278.5	2946.4	3029.0	3463.3	3429.5
57.5°	3728.5	3717.2	3149.6	3196.0	3632.2	3709.8	3602.7	3220.7	3299.1	3673.5	3588.7
60°	3797.5	3851.5	3363.6	3427.5	3867.6	3953.6	3859.7	3461.6	3538.5	3760.7	3577.9
62.5°	3760.2	3881.0	3591.6	3586.3	3920.0	4012.7	3946.7	3595.6	3716.0	3670.8	3396.8
65°	3587.8	3775.1	3723.8	3545.3	3740.3	3748.0	3726.6	3535.7	3757.8	3386.7	3047.0
67.5°	3212.3	3481.9	3549.6	3195.0	3255.4	3205.9	3170.1	3207.7	3539.5	2960.9	2560.8
70°	2616.4	3022.1	3054.5	2555.4	2528.0	2494.8	2423.4	2629.8	3108.6	2426.7	2031.9
72.5°	1923.8	2350.2	2450.1	1874.3	1747.3	1754.2	1697.8	1981.9	2527.5	1802.6	1517.0
75°	1316.1	1701.9	1916.9	1307.8	1155.4	1158.3	1151.1	1404.3	2013.1	1253.9	1135.2
77.5°	961.5	1215.9	1445.6	879.2	853.6	837.8	834.0	982.5	1543.4	910.4	881.5
80°	771.6	898.3	971.1	609.4	655.3	654.1	633.0	675.6	1007.9	665.9	659.4
82.5°	535.2	690.3	786.9	477.6	442.3	435.0	440.0	503.2	712.4	455.2	432.9
85°	282.3	458.5	779.2	423.2	262.5	209.5	260.4	412.0	617.2	241.2	211.2
87.5°	36.0	132.6	515.9	168.9	103.6	55.9	123.7	232.1	396.3	49.2	42.9
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: P200157

CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-800

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4
2.5°	1693.0	1659.2	1615.0	1574.1	1531.8	1489.6	1434.5	1400.0	1376.1	1371.6	1361.3
5°	1651.9	1539.6	1454.8	1381.4	1314.9	1221.0	1168.9	1125.8	1102.6	1100.4	1094.8
7.5°	1462.2	1307.3	1192.8	1088.9	994.7	918.8	835.0	796.0	780.0	783.8	787.6
10°	1264.9	1091.7	960.2	854.1	771.1	707.1	639.9	594.3	562.8	556.5	555.3
12.5°	1120.6	930.8	803.0	728.1	663.9	603.7	532.4	478.8	437.9	424.0	414.6
15°	1059.8	852.0	718.2	637.5	566.7	490.3	424.0	367.9	330.3	318.1	311.3
17.5°	1072.7	830.2	659.9	556.5	465.9	386.2	302.6	254.6	232.1	226.2	226.2
20°	1140.7	826.1	611.6	481.9	368.9	276.5	208.0	180.6	173.2	172.4	174.4
22.5°	1236.2	840.4	575.6	417.2	286.6	201.8	161.9	151.8	148.5	149.2	151.6
25°	1378.4	888.3	549.4	359.5	224.9	165.3	144.4	138.4	136.9	138.9	141.7
27.5°	1547.0	936.3	533.2	316.1	190.0	151.1	137.4	131.0	132.1	134.5	137.1
30°	1695.0	975.7	507.5	285.1	179.0	151.8	137.4	128.7	127.7	128.2	129.0
32.5°	1827.8	1002.4	477.6	255.6	154.4	134.8	128.2	126.9	121.3	119.4	119.6
35°	1942.3	1002.4	459.5	238.4	138.4	119.6	108.9	102.6	99.7	100.0	102.8
37.5°	2052.8	982.3	450.6	228.7	129.7	113.8	104.3	98.7	94.9	94.2	94.7
40°	2150.2	953.1	440.5	224.7	123.2	110.2	101.3	96.8	92.7	91.5	91.7
42.5°	2228.4	929.5	429.3	219.3	119.1	107.6	99.2	95.2	90.6	89.4	89.1
45°	2313.0	921.7	414.6	208.7	121.1	107.9	98.7	94.4	89.9	88.4	87.9
47.5°	2424.4	946.2	399.4	196.0	125.4	109.1	99.5	94.4	89.6	88.4	87.9
50°	2564.8	1004.1	380.0	177.5	121.1	112.7	99.2	93.7	89.6	88.4	87.4
52.5°	2745.1	1082.4	354.7	156.1	118.6	121.3	98.7	92.2	88.4	86.5	84.8
55°	2964.2	1146.3	324.5	138.6	112.7	119.1	98.0	90.4	86.3	83.8	82.2
57.5°	3124.6	1169.4	285.6	127.2	104.6	115.3	97.0	88.1	83.8	81.7	79.7
60°	3092.9	1124.7	252.9	120.1	99.7	104.1	96.3	86.0	81.5	80.0	78.2
62.5°	2838.8	1007.9	231.8	116.8	96.8	94.9	97.0	84.1	79.5	77.9	77.4
65°	2457.6	835.5	223.4	116.0	94.2	89.6	90.1	81.7	77.2	75.9	75.4
67.5°	2027.3	674.3	216.0	118.6	90.9	85.8	83.3	78.7	74.9	73.7	72.6
70°	1598.8	560.9	212.8	117.0	86.8	82.0	79.2	75.4	72.1	70.8	70.1
72.5°	1287.5	473.7	211.0	115.5	81.5	76.9	74.4	71.1	67.5	67.0	66.3
75°	1089.4	372.5	193.2	110.7	75.4	70.8	69.0	66.0	62.5	62.5	62.0
77.5°	840.4	269.3	160.7	98.0	69.0	63.9	62.5	60.1	56.2	56.9	56.6
80°	620.7	175.7	125.7	81.2	61.2	56.4	55.6	53.3	49.0	50.0	50.0
82.5°	425.2	115.3	90.4	66.5	52.3	47.8	47.8	45.4	40.6	41.1	42.7
85°	213.5	79.2	67.5	51.6	40.6	38.4	38.4	36.5	31.7	32.0	34.1
87.5°	65.0	47.8	44.7	36.8	29.2	28.6	27.4	26.2	23.1	22.8	24.1
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: P200157

CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-800

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4
2.5°	1345.9	1331.4	1313.9	1275.3	1262.3	1261.6	1273.3	1261.1	1284.4	1274.5	1285.4
5°	1085.4	1071.1	1051.6	1002.4	972.4	952.1	942.4	914.0	934.6	919.6	932.0
7.5°	798.2	801.6	788.6	759.6	694.4	661.6	642.3	625.1	640.1	638.5	662.4
10°	561.1	570.0	560.9	531.6	478.8	460.8	464.3	471.3	490.8	500.9	537.8
12.5°	404.0	403.5	397.6	371.4	336.7	338.7	353.1	365.1	383.1	393.8	431.4
15°	301.7	297.1	294.5	273.2	253.4	257.7	264.8	266.1	277.5	283.9	314.4
17.5°	228.0	230.3	233.0	217.9	202.9	200.1	194.5	187.6	190.9	192.2	207.5
20°	181.1	190.2	197.0	186.4	171.1	163.0	155.9	151.3	151.3	151.1	155.4
22.5°	158.1	164.8	172.2	164.8	151.1	143.9	139.9	136.4	135.8	135.8	139.9
25°	145.8	150.6	157.6	152.6	142.4	137.1	133.3	128.7	126.9	126.4	129.2
27.5°	139.6	141.7	145.3	140.7	132.1	129.5	128.5	124.4	122.1	120.8	123.7
30°	129.2	128.7	129.0	124.4	117.5	117.3	119.1	119.8	119.1	118.9	123.2
32.5°	119.6	118.6	118.4	114.3	107.9	106.4	107.9	109.5	111.2	113.8	118.9
35°	107.4	110.0	111.5	107.9	100.2	95.7	93.9	91.1	89.6	89.6	95.4
37.5°	97.8	103.6	105.9	102.6	94.2	87.9	84.8	84.3	84.5	85.5	91.1
40°	94.4	98.7	100.8	97.5	89.1	83.3	81.5	81.0	81.5	83.1	88.6
42.5°	92.4	95.4	95.2	91.1	84.3	80.2	79.2	78.7	79.2	80.7	86.8
45°	90.6	92.7	90.6	85.8	79.5	77.4	77.6	77.4	77.9	79.5	85.3
47.5°	89.1	89.9	87.4	82.6	75.9	75.4	76.4	77.2	77.6	79.0	85.0
50°	86.8	86.8	84.5	79.5	72.8	73.1	74.4	76.2	76.4	77.9	82.8
52.5°	84.1	83.8	82.2	77.4	70.4	71.1	71.1	73.1	73.7	75.4	80.5
55°	81.7	81.2	80.5	75.9	68.0	69.4	68.5	69.4	70.6	72.3	77.9
57.5°	79.7	78.7	78.7	74.7	66.3	66.8	65.0	66.0	67.5	69.0	74.9
60°	77.6	76.7	77.2	72.8	63.4	63.0	62.2	64.2	64.8	66.5	72.3
62.5°	75.4	74.7	74.9	70.8	61.5	60.1	60.1	62.0	62.2	64.8	70.4
65°	73.7	72.6	72.3	68.8	59.1	57.6	58.4	59.1	59.6	62.2	67.5
67.5°	71.8	69.9	69.9	67.0	56.6	55.1	56.6	56.4	57.1	59.4	63.7
70°	69.6	66.8	67.0	65.8	54.1	52.3	53.6	53.3	53.8	55.3	59.6
72.5°	66.0	63.7	64.2	63.7	51.6	49.0	49.5	49.5	49.5	50.7	55.3
75°	61.5	59.6	61.2	62.5	48.5	44.9	45.4	45.4	44.7	45.4	51.0
77.5°	55.9	54.8	59.9	58.1	44.9	40.6	40.6	40.1	38.6	39.6	45.7
80°	49.7	49.0	55.3	48.8	40.9	35.3	34.8	33.6	32.0	32.7	38.9
82.5°	43.4	42.7	46.4	37.3	35.3	29.2	27.9	25.7	24.1	24.9	30.5
85°	35.5	35.5	35.8	28.1	26.9	22.3	20.9	17.8	16.0	16.5	21.8
87.5°	25.4	26.2	24.1	19.3	16.0	12.5	11.5	9.6	8.1	9.4	11.5
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: P200157

CATALOG NUMBER: GWC-AF-01-LED-E1-SLL-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4
2.5°	1341.3	1369.2	1400.9	1441.6	1476.4	1533.5	1588.3	1621.4
5°	1002.9	1049.3	1107.2	1181.6	1251.0	1355.0	1458.3	1524.6
7.5°	717.7	767.5	830.0	922.9	1020.9	1153.7	1290.2	1369.5
10°	593.8	644.9	697.4	760.2	840.4	984.9	1146.3	1235.7
12.5°	491.3	545.8	602.5	668.5	742.9	871.9	1057.9	1160.8
15°	376.0	436.9	503.7	587.3	680.5	829.5	1036.1	1147.9
17.5°	257.7	325.7	407.7	510.9	624.8	815.8	1075.2	1203.9
20°	177.5	227.0	314.6	435.5	572.5	814.0	1150.4	1311.6
22.5°	148.5	170.6	234.6	366.1	533.2	835.9	1266.9	1462.7
25°	137.4	150.6	187.4	306.0	504.5	886.1	1427.4	1658.2
27.5°	130.7	142.7	170.1	266.6	481.9	944.5	1583.5	1847.6
30°	133.3	145.5	165.3	246.5	451.1	993.2	1722.1	1995.4
32.5°	120.1	125.4	141.7	228.7	429.1	1034.1	1843.5	2117.7
35°	102.3	111.7	126.4	220.3	429.5	1061.5	1975.8	2274.1
37.5°	97.5	106.9	117.5	217.4	435.5	1090.7	2127.6	2457.4
40°	94.4	103.1	112.2	215.5	441.0	1117.4	2276.4	2638.7
42.5°	92.4	100.2	111.7	209.5	443.8	1141.2	2398.8	2792.9
45°	92.2	100.2	113.8	203.4	448.2	1166.9	2501.3	2906.8
47.5°	92.4	103.6	110.0	196.0	448.2	1209.8	2621.7	3008.6
50°	91.5	109.1	105.9	185.6	437.7	1291.1	2786.7	3145.0
52.5°	90.9	108.4	98.0	169.6	419.7	1420.1	2998.2	3332.9
55°	89.6	104.6	92.4	145.8	398.6	1560.7	3224.6	3555.0
57.5°	88.4	92.7	89.4	124.9	366.1	1659.7	3380.5	3728.5
60°	99.0	81.0	86.8	114.8	322.7	1686.8	3374.5	3797.5
62.5°	91.7	75.9	83.6	112.5	292.3	1610.7	3218.6	3760.2
65°	71.8	72.6	80.2	119.1	284.1	1408.8	2942.3	3587.8
67.5°	65.8	69.4	76.9	127.5	284.9	1128.0	2529.6	3212.3
70°	62.0	65.8	73.1	131.8	286.9	840.9	1999.9	2616.4
72.5°	57.6	61.0	68.8	132.6	273.7	610.9	1541.4	1923.8
75°	52.6	55.6	62.7	115.5	226.7	423.7	1179.1	1316.1
77.5°	46.7	49.0	55.1	89.1	168.4	271.2	885.1	961.5
80°	39.9	41.1	46.2	65.3	115.3	169.6	700.2	771.6
82.5°	32.0	32.5	35.8	49.0	74.9	108.9	468.9	535.2
85°	22.6	22.6	24.7	35.5	51.0	69.0	254.6	282.3
87.5°	10.6	10.9	10.9	19.5	26.7	35.1	58.6	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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