

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: P270171

Luminaire Tested: **GWC-AF-01-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270171  
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-SLR-7027-800  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3923 lumens  
Efficiency: N/A  
Efficacy: 89.2 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

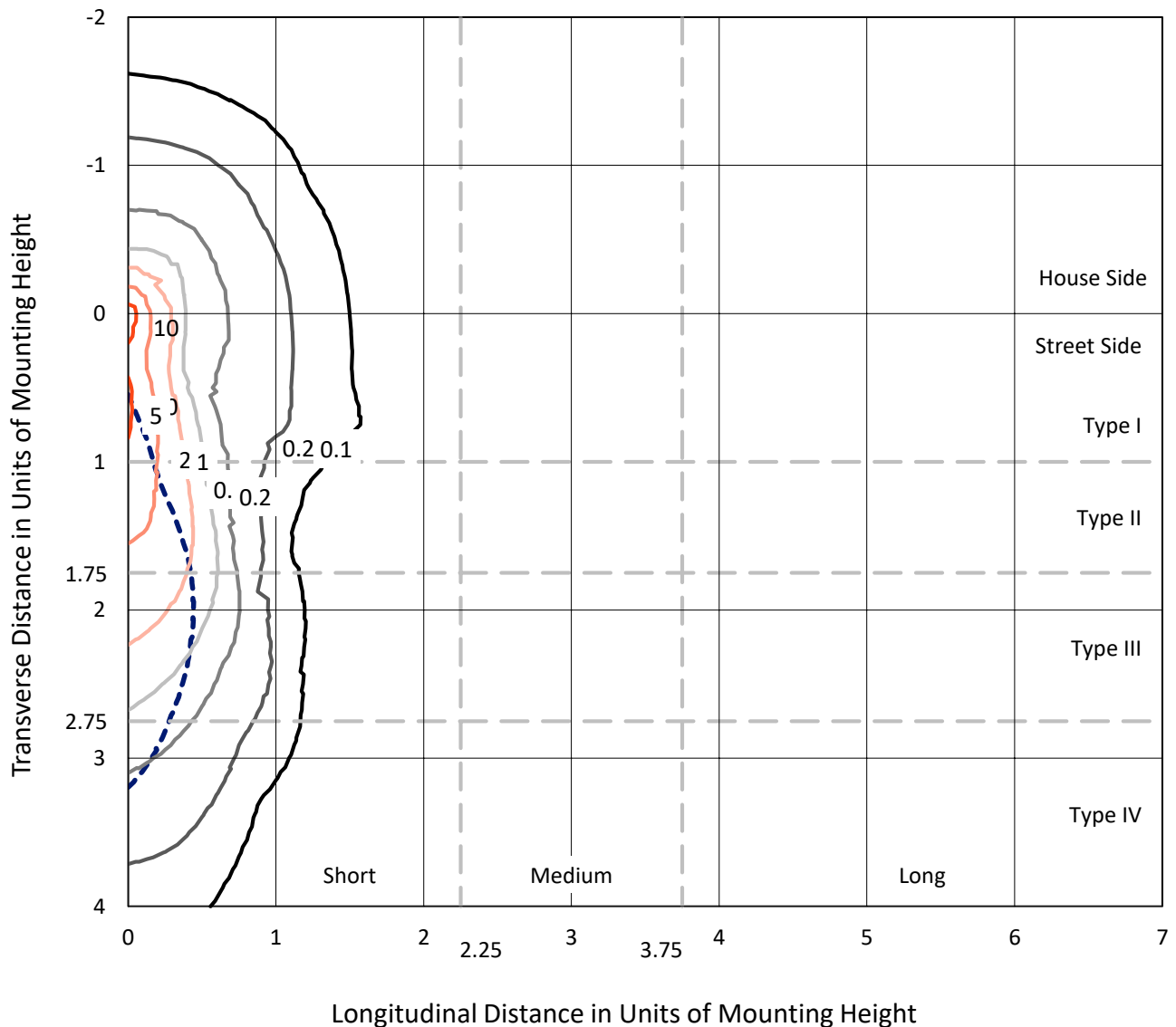


REPORT NUMBER: P270171

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7027-800

### Iso-Footcandle Lines of Horizontal Illumination

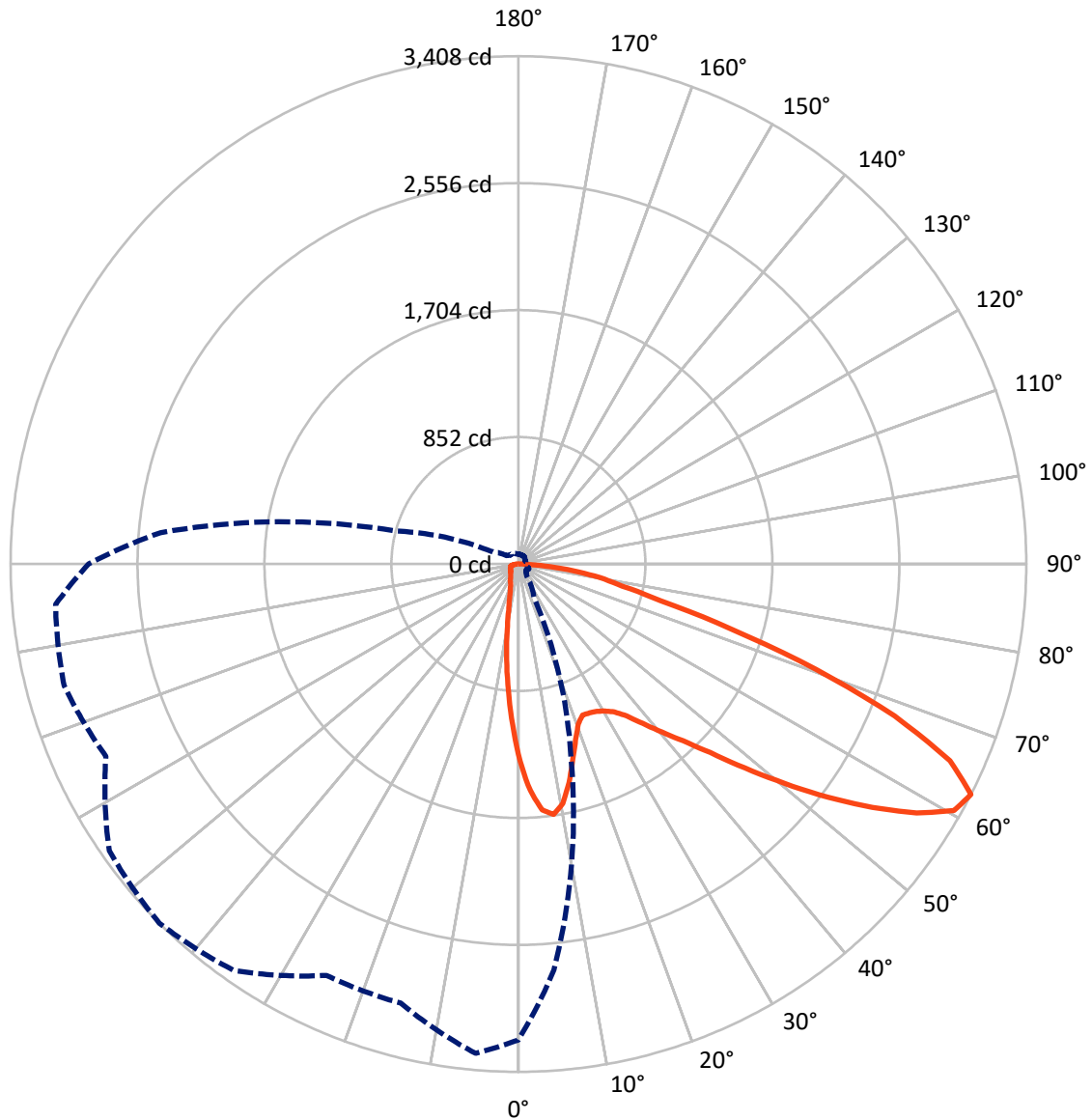
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P270171  
CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7027-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P270171

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7027-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	649.2	0.0	649.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3273.8	0.0	3273.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	3923.0	0.0	3923.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	2.5
10°-20°	176.9	4.5
20°-30°	258.0	6.6
30°-40°	397.3	10.1
40°-50°	584.7	14.9
50°-60°	857.6	21.9
60°-70°	958.7	24.4
70°-80°	469.4	12.0
80°-90°	123.9	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°	3923.0	100.0
0°-180°	3923.0	100.0



REPORT NUMBER: P270171

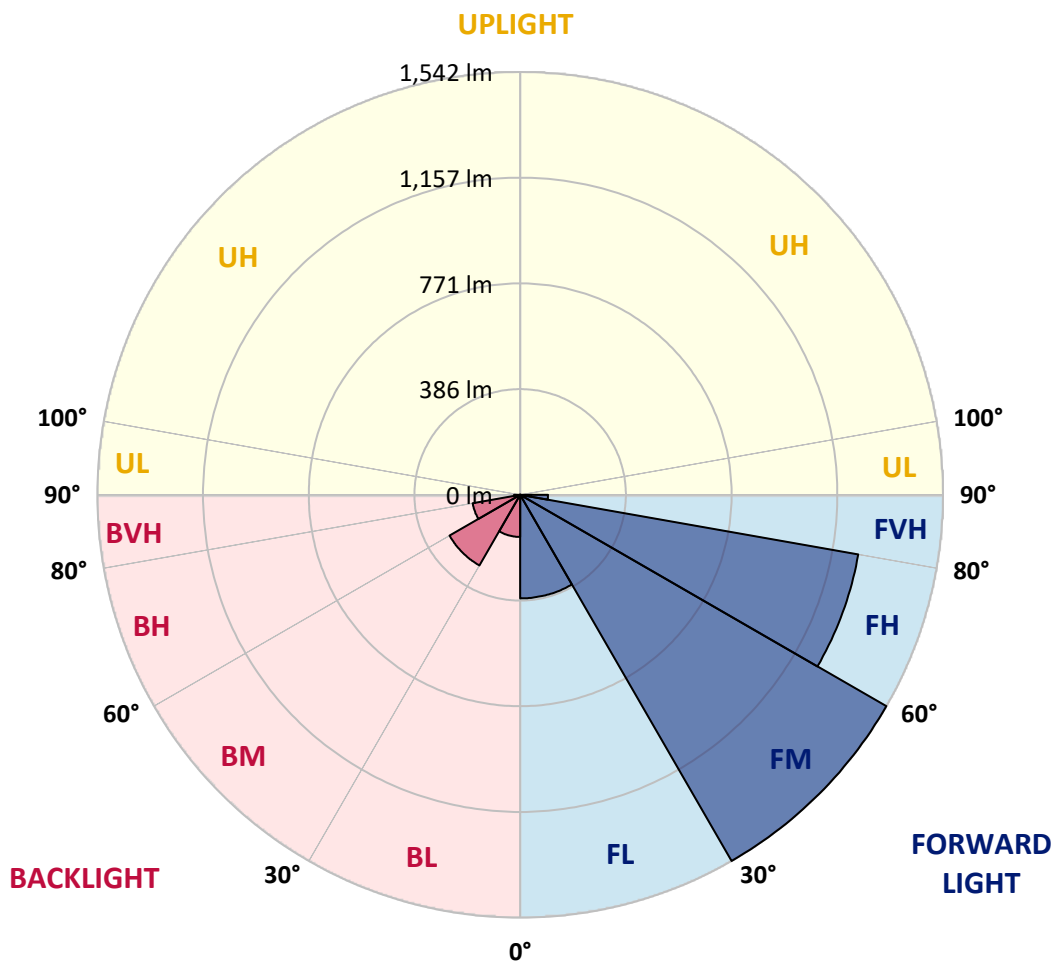
CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7027-800

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	377.8	9.6			
FM (30°-60°)	1542.2	39.3			
FH (60°-80°)	1252.1	31.9			G1/1800
FVH (80°-90°)	101.8	2.6			G2/225
BL (0°-30°)	153.6	3.9	B1/500		
BM (30°-60°)	297.5	7.6	B1/1000		
BH (60°-80°)	176.0	4.5	B1/500		G1/500
BVH (80°-90°)	22.2	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: P270171

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1377.1	1349.2	1302.5	1254.0	1224.5	1190.0	1163.0	1139.3	1091.8	1082.5	1091.0
5°	1294.9	1238.8	1150.9	1062.5	1003.6	940.4	891.3	851.9	791.6	781.0	793.8
7.5°	1163.2	1095.9	980.0	867.1	784.0	705.0	651.9	609.6	562.7	542.3	543.7
10°	1049.6	973.7	836.5	713.9	645.6	592.4	547.7	504.4	456.8	425.4	416.9
12.5°	986.0	898.7	740.6	631.0	567.8	511.8	463.6	417.4	366.4	334.4	325.5
15°	975.0	880.1	704.5	578.0	498.7	427.9	371.1	319.3	266.9	241.0	235.7
17.5°	1022.6	913.2	693.0	530.7	433.9	346.3	276.7	218.8	176.2	163.2	162.1
20°	1114.1	977.1	691.3	486.3	369.8	267.2	192.7	150.7	132.1	128.3	128.5
22.5°	1242.4	1076.1	709.9	452.8	311.0	199.2	144.9	126.1	118.8	115.4	115.4
25°	1408.5	1212.4	752.6	428.5	259.9	159.2	127.9	116.7	109.8	107.3	107.8
27.5°	1569.2	1345.0	802.2	409.3	226.5	144.4	121.2	111.1	105.0	102.6	103.8
30°	1694.8	1462.8	843.6	383.1	209.3	140.3	123.5	113.2	104.7	100.9	101.1
32.5°	1798.8	1565.8	878.4	364.4	194.4	120.4	106.4	102.0	100.9	96.6	94.4
35°	1931.5	1678.3	901.7	364.9	187.1	107.3	95.0	86.9	81.0	76.1	76.1
37.5°	2087.3	1807.2	926.4	369.8	184.6	99.8	90.8	82.9	77.4	72.7	71.9
40°	2241.4	1933.5	949.1	374.7	183.1	95.3	87.6	80.2	75.3	70.4	69.2
42.5°	2372.2	2037.4	969.4	377.0	178.0	95.0	85.2	78.5	73.8	68.6	67.4
45°	2469.0	2124.6	991.1	380.6	172.7	96.6	85.2	78.3	72.5	67.6	66.3
47.5°	2555.5	2226.8	1027.7	380.6	166.5	93.3	87.9	78.5	72.3	67.1	65.9
50°	2671.3	2367.0	1096.7	371.8	157.7	89.9	92.7	77.7	70.2	66.3	64.9
52.5°	2830.9	2546.7	1206.2	356.4	144.1	83.3	92.0	77.3	68.5	64.0	62.5
55°	3019.6	2739.0	1325.5	338.7	123.7	78.5	88.8	76.1	66.3	61.4	59.9
57.5°	3166.9	2871.4	1409.7	311.0	106.1	75.8	78.7	75.1	63.6	58.7	57.3
60°	3225.5	2866.2	1432.7	274.2	97.5	73.8	68.8	61.4	61.4	56.6	54.9
62.5°	3193.8	2733.8	1368.1	248.2	95.5	71.0	64.5	77.9	59.7	54.9	52.8
65°	3047.4	2499.2	1196.6	241.4	101.1	68.1	61.7	61.1	57.3	52.8	50.7
67.5°	2728.4	2148.6	958.1	242.0	108.2	65.3	58.8	55.9	54.1	50.5	48.5
70°	2222.2	1698.7	714.2	243.7	111.8	62.2	55.9	52.6	50.7	47.0	45.8
72.5°	1633.9	1309.2	518.9	232.5	112.6	58.4	51.7	49.0	47.0	43.1	42.0
75°	1117.9	1001.5	360.0	192.5	98.2	53.3	47.3	44.6	43.4	38.5	38.0
77.5°	816.6	751.7	230.3	143.0	75.6	46.8	41.6	39.6	38.7	33.6	32.8
80°	655.4	594.8	144.1	97.9	55.4	39.3	34.9	33.9	33.0	27.8	27.2
82.5°	454.6	398.3	92.5	63.6	41.6	30.5	27.6	27.2	26.0	21.1	20.5
85°	239.8	216.3	58.7	43.4	30.3	20.9	19.3	19.3	18.5	14.1	13.6
87.5°	30.6	49.9	29.7	22.6	16.6	9.3	9.3	9.1	9.7	7.9	6.8
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: P270171

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1071.1	1081.5	1071.6	1072.2	1083.3	1116.1	1130.8	1143.2	1156.3	1164.9	1168.9
5°	776.3	800.5	808.7	825.9	851.5	893.3	909.9	921.9	929.8	934.6	936.6
7.5°	531.0	545.6	562.0	589.7	645.3	669.9	680.8	678.0	669.0	665.7	662.5
10°	400.3	394.4	391.4	406.8	451.6	476.5	484.1	476.6	471.6	472.7	478.1
12.5°	310.2	299.9	287.6	285.9	315.6	337.8	342.7	343.2	352.1	360.1	372.0
15°	226.1	224.9	218.8	215.2	232.0	250.2	252.3	256.1	264.5	270.2	280.6
17.5°	159.4	165.2	169.9	172.4	185.1	197.9	195.7	193.7	192.1	192.1	197.1
20°	128.5	132.4	138.5	145.3	158.3	167.4	161.5	153.8	148.1	146.5	147.1
22.5°	115.8	118.8	122.3	128.3	140.0	146.2	140.0	134.3	128.7	126.8	126.1
25°	109.4	113.2	116.4	121.0	129.6	133.8	127.9	123.7	120.4	117.9	116.2
27.5°	105.7	109.1	110.0	112.2	119.5	123.3	120.4	118.5	116.4	114.4	112.2
30°	101.8	101.1	99.6	99.8	105.7	109.6	109.4	109.8	109.6	109.0	108.4
32.5°	93.0	91.6	90.4	91.6	97.0	100.5	100.7	101.6	101.6	101.4	103.0
35°	77.4	79.8	81.2	85.2	91.6	94.7	93.3	91.2	87.3	85.0	84.8
37.5°	71.5	72.0	74.6	79.9	87.1	89.9	87.9	83.1	80.5	79.9	80.7
40°	68.8	69.2	70.7	75.6	82.9	85.6	83.9	80.2	77.9	77.7	78.7
42.5°	66.8	67.4	68.1	71.5	77.4	80.8	81.0	78.5	75.6	75.8	77.0
45°	65.8	65.9	65.8	67.6	72.9	77.0	78.7	77.0	74.6	75.1	76.4
47.5°	65.5	64.9	64.0	64.5	70.1	74.2	76.4	75.6	74.6	75.1	76.1
50°	64.7	63.2	62.2	62.0	67.6	71.9	73.8	73.8	74.2	75.1	76.1
52.5°	62.2	60.4	60.4	59.7	65.8	69.9	71.1	71.3	72.0	73.5	75.1
55°	58.8	58.2	58.8	57.9	64.5	68.5	69.0	69.3	69.9	71.1	73.3
57.5°	56.1	55.2	56.8	56.2	63.4	66.8	66.8	67.7	67.7	69.3	71.1
60°	54.5	52.8	53.4	53.9	62.0	65.5	65.1	65.9	66.5	67.9	69.2
62.5°	52.6	51.2	51.2	52.2	60.1	63.6	63.4	64.0	65.8	66.3	67.6
65°	50.2	49.5	49.0	50.2	58.4	61.4	61.7	62.5	64.0	64.5	65.5
67.5°	47.9	48.1	46.8	48.1	57.0	59.3	59.3	61.1	61.7	62.5	63.6
70°	45.3	45.5	44.5	46.0	55.9	57.0	56.8	59.1	59.5	60.1	61.3
72.5°	42.0	42.0	41.6	43.7	54.1	54.5	54.1	56.1	56.2	57.0	57.3
75°	38.5	38.5	38.2	41.2	53.1	52.0	50.7	52.2	52.6	53.1	53.1
77.5°	34.0	34.6	34.6	38.2	49.3	50.9	46.6	47.4	48.1	48.2	47.7
80°	28.4	29.6	30.0	34.8	41.4	47.0	41.6	42.3	42.5	42.5	41.6
82.5°	21.7	23.7	24.9	30.0	31.7	39.4	36.2	36.9	36.2	34.9	34.6
85°	15.1	17.6	19.0	22.8	24.0	30.5	30.3	30.3	28.8	27.2	26.9
87.5°	8.2	9.7	10.6	13.6	16.3	20.5	22.2	21.6	20.5	19.5	19.7
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: P270171

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1189.0	1218.5	1265.3	1301.0	1337.0	1371.7	1409.4	1437.9	1462.4	1471.9	1500.7
5°	956.2	992.8	1037.1	1116.9	1173.4	1235.7	1307.8	1403.1	1439.8	1490.4	1573.4
7.5°	676.1	709.3	780.4	844.9	925.0	1013.1	1110.3	1241.9	1290.1	1371.4	1506.5
10°	504.8	543.5	600.5	655.0	725.4	815.7	927.3	1074.4	1132.9	1221.1	1376.7
12.5°	406.8	452.2	512.8	564.0	618.6	682.2	790.6	951.8	1030.1	1107.4	1264.9
15°	312.5	360.1	416.5	481.3	541.5	610.0	723.8	900.1	990.3	1070.7	1205.0
17.5°	216.3	257.1	328.1	395.8	472.7	560.5	705.2	911.2	1018.8	1111.5	1215.3
20°	153.3	176.6	234.8	313.4	409.3	519.5	701.8	968.9	1108.9	1214.8	1281.8
22.5°	128.9	137.6	171.4	243.5	354.3	488.9	713.9	1049.9	1230.5	1365.8	1387.7
25°	117.5	122.7	140.3	191.1	305.3	466.7	754.5	1170.9	1381.1	1516.7	1512.7
27.5°	111.3	116.7	128.3	161.3	268.6	452.8	795.3	1314.0	1553.1	1680.5	1632.3
30°	109.4	116.7	128.9	152.1	242.2	431.0	828.7	1439.8	1685.5	1791.2	1686.6
32.5°	107.8	109.0	114.5	131.2	217.2	405.7	851.5	1552.5	1815.1	1896.4	1764.9
35°	87.1	92.5	101.6	117.5	202.5	390.4	851.5	1649.7	1942.9	2002.7	1839.5
37.5°	83.9	88.7	96.6	110.2	194.4	382.8	834.3	1743.5	2073.3	2123.4	1901.0
40°	82.1	86.1	93.7	104.7	190.9	374.1	809.6	1826.3	2200.7	2244.1	1958.3
42.5°	80.8	84.4	91.4	101.1	186.3	364.6	789.5	1892.8	2311.3	2347.1	2013.1
45°	80.2	83.9	91.6	102.9	177.2	352.1	782.9	1964.7	2402.3	2433.1	2072.4
47.5°	80.2	84.5	92.7	106.4	166.5	339.2	803.8	2059.3	2488.5	2503.4	2142.3
50°	79.6	84.4	95.8	102.9	150.7	322.9	852.9	2178.5	2581.5	2583.3	2230.8
52.5°	78.3	83.9	103.0	100.7	132.6	301.2	919.3	2331.6	2719.3	2729.7	2369.1
55°	76.7	83.3	101.1	95.8	117.8	275.6	973.7	2517.7	2913.1	2941.7	2572.7
57.5°	74.7	82.4	97.9	88.8	108.1	242.6	993.3	2654.0	3048.2	3120.3	2802.2
60°	73.1	81.7	88.5	84.8	102.0	214.8	955.3	2627.1	3039.0	3194.3	3005.5
62.5°	71.3	82.4	80.7	82.1	99.3	196.9	856.2	2411.2	2885.1	3117.8	3156.3
65°	69.3	76.5	76.1	79.9	98.5	189.8	709.8	2087.5	2588.0	2876.6	3191.9
67.5°	66.8	70.7	72.9	77.3	100.7	183.6	572.8	1722.1	2175.1	2515.0	3006.4
70°	64.0	67.4	69.7	73.8	99.4	180.6	476.5	1358.0	1725.9	2061.3	2640.5
72.5°	60.4	63.2	65.3	69.2	98.2	179.2	402.4	1093.5	1288.4	1531.2	2146.8
75°	56.1	58.7	60.1	64.0	94.1	164.1	316.4	925.3	964.2	1065.1	1710.0
77.5°	51.2	53.1	54.3	58.7	83.3	136.5	228.8	713.9	748.7	773.4	1310.9
80°	45.3	47.3	47.9	52.0	69.0	106.8	149.2	527.2	560.1	565.7	856.2
82.5°	38.5	40.6	40.6	44.5	56.6	76.7	97.9	361.2	367.6	386.7	605.1
85°	31.0	32.6	32.6	34.6	43.7	57.3	67.4	181.4	179.4	204.9	524.3
87.5°	22.2	23.3	24.3	24.9	31.4	38.0	40.6	55.2	36.4	41.9	336.7
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: P270171

CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1522.4	1534.8	1522.3	1513.3	1474.2	1442.0	1399.1	1377.1
5°	1636.6	1667.9	1657.4	1619.4	1537.8	1446.1	1342.0	1294.9
7.5°	1622.8	1695.5	1697.2	1626.2	1506.1	1371.2	1230.0	1163.2
10°	1515.4	1608.3	1634.8	1566.0	1438.6	1287.7	1125.9	1049.6
12.5°	1395.4	1486.4	1506.7	1483.0	1376.6	1224.8	1060.8	986.0
15°	1297.3	1338.1	1362.3	1383.0	1323.3	1199.9	1057.1	975.0
17.5°	1237.7	1233.2	1240.0	1276.0	1286.2	1228.5	1113.2	1022.6
20°	1216.0	1146.9	1145.1	1194.7	1268.6	1297.0	1222.8	1114.1
22.5°	1228.0	1115.8	1101.5	1160.4	1278.0	1395.4	1366.3	1242.4
25°	1268.9	1118.4	1106.9	1163.8	1311.5	1500.4	1521.4	1408.5
27.5°	1333.4	1134.7	1119.6	1178.0	1356.3	1588.7	1674.1	1569.2
30°	1394.6	1163.2	1144.5	1206.2	1397.0	1623.6	1767.7	1694.8
32.5°	1469.0	1216.5	1183.4	1257.6	1447.4	1679.3	1851.1	1798.8
35°	1541.9	1292.4	1251.3	1337.2	1503.8	1748.6	1946.4	1931.5
37.5°	1621.9	1391.7	1357.8	1440.2	1580.7	1813.9	2068.1	2087.3
40°	1707.3	1523.2	1483.0	1590.2	1700.2	1895.9	2195.1	2241.4
42.5°	1793.3	1669.1	1621.4	1730.0	1831.6	1976.7	2303.9	2372.2
45°	1891.9	1827.6	1805.1	1922.6	1957.6	2053.6	2384.0	2469.0
47.5°	2006.6	2007.5	2044.0	2091.0	2085.0	2140.8	2464.7	2555.5
50°	2140.5	2232.0	2312.4	2343.7	2215.9	2234.4	2576.6	2671.3
52.5°	2301.5	2500.5	2600.1	2579.7	2357.3	2348.7	2753.8	2830.9
55°	2502.7	2784.7	2883.6	2869.0	2519.7	2504.4	2974.6	3019.6
57.5°	2735.6	3060.0	3151.2	3085.0	2714.6	2675.2	3157.4	3166.9
60°	2940.2	3278.4	3358.1	3285.0	2911.2	2857.0	3271.4	3225.5
62.5°	3054.1	3352.4	3408.3	3329.7	3046.2	3050.6	3296.4	3193.8
65°	3003.2	3165.4	3183.5	3176.9	3011.4	3162.9	3206.5	3047.4
67.5°	2724.5	2692.6	2723.0	2765.2	2713.8	3015.0	2957.4	2728.4
70°	2233.7	2058.3	2119.0	2147.3	2170.6	2594.6	2566.8	2222.2
72.5°	1683.3	1442.0	1489.8	1484.1	1591.9	2081.1	1996.4	1633.9
75°	1192.8	977.7	983.9	981.4	1110.8	1628.2	1445.6	1117.9
77.5°	834.5	708.5	711.6	725.0	746.9	1228.0	1032.7	816.6
80°	573.8	537.6	555.5	556.6	517.6	824.9	763.0	655.4
82.5°	427.5	373.8	369.5	375.8	405.7	668.2	586.4	454.6
85°	350.0	221.3	178.0	223.0	359.5	661.8	389.4	239.8
87.5°	197.1	105.0	47.4	87.9	143.4	438.3	112.6	30.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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