

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: P270104

Luminaire Tested: **GWC-AF-01-LED-E1-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
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-T2R-7027-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6204 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

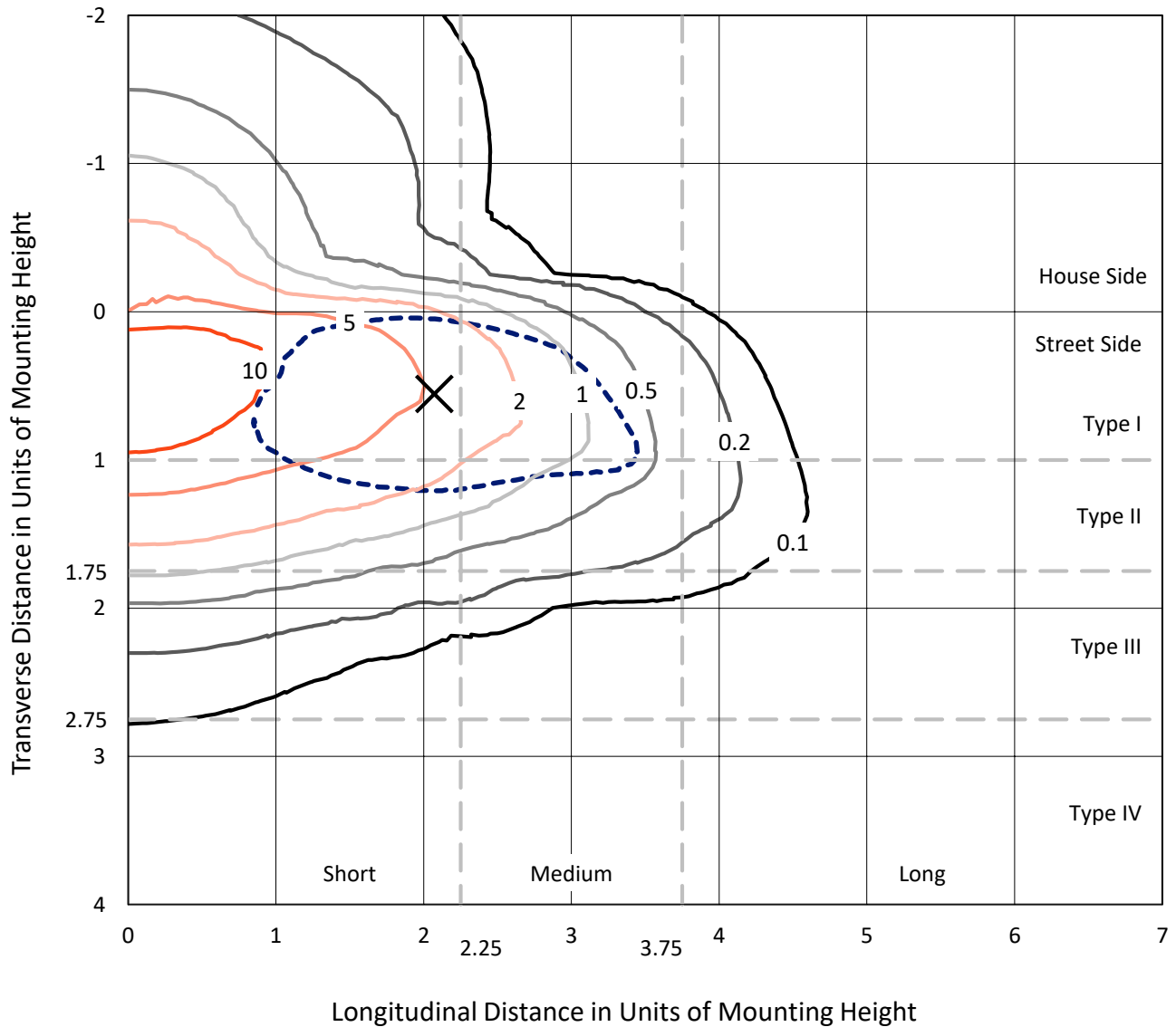
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P270104
 CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

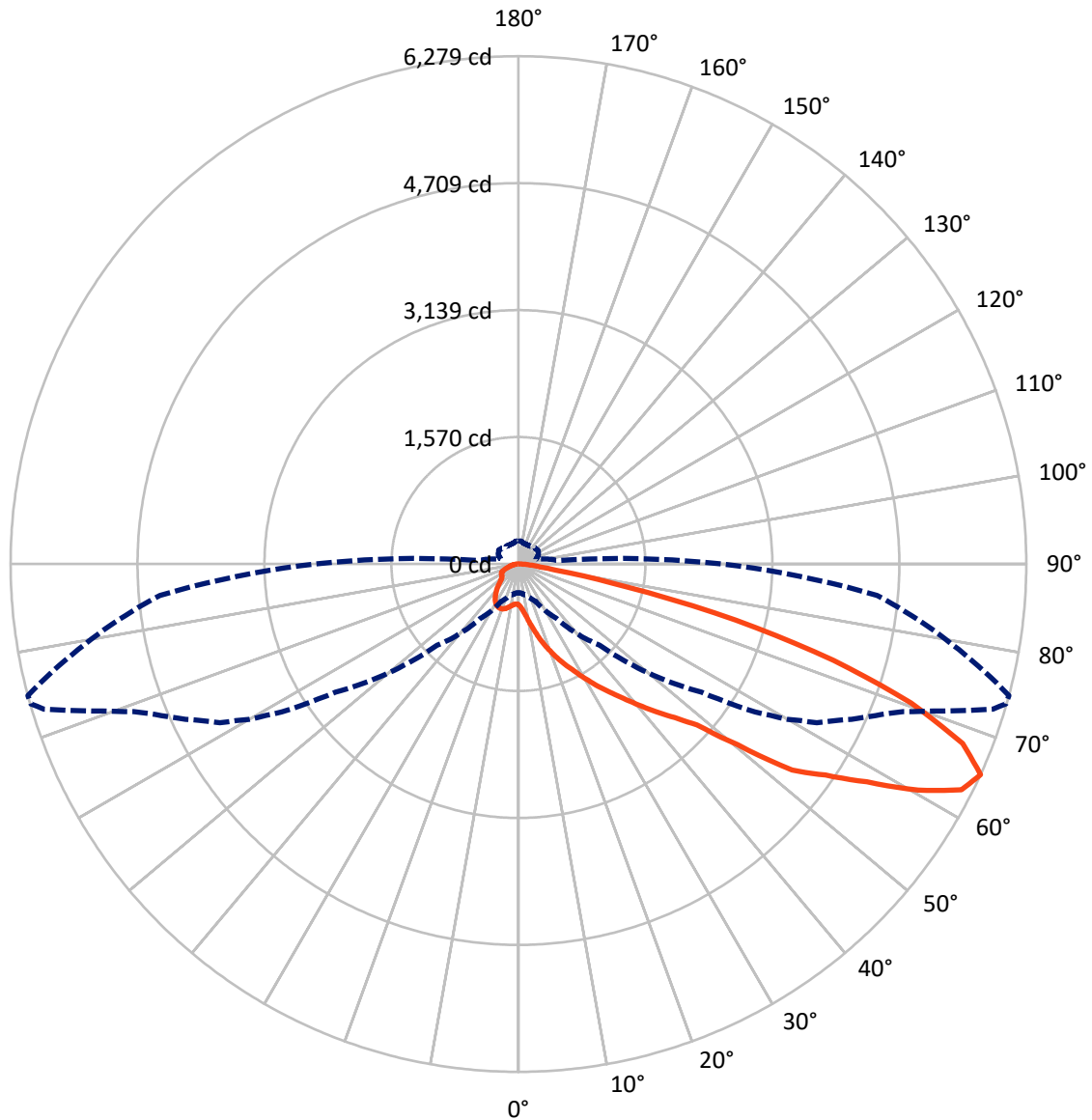
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P270104
CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P270104

CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	956.5	0.0	956.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5247.5	0.0	5247.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	6204.0	0.0	6204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.0
10°-20°	243.5	3.9
20°-30°	499.6	8.1
30°-40°	840.5	13.5
40°-50°	1161.3	18.7
50°-60°	1449.7	23.4
60°-70°	1304.6	21.0
70°-80°	546.9	8.8
80°-90°	95.5	1.5
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°	6204.0	100.0
0°-180°	6204.0	100.0

Coefficient of Utilization



REPORT NUMBER: P270104

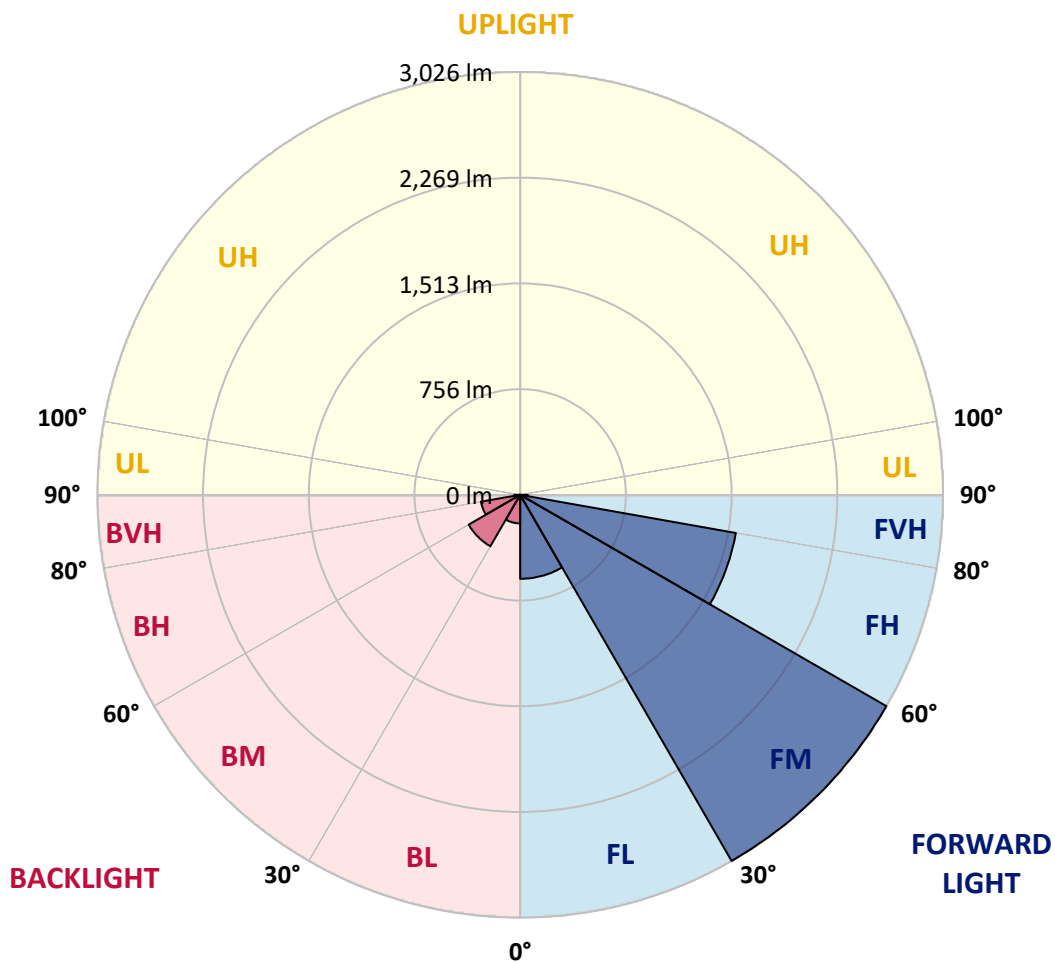
CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	600.8	9.7			
FM	(30°-60°)	3025.8	48.8			
FH	(60°-80°)	1567.1	25.3			G1/1800
FVH	(80°-90°)	53.7	0.9			G1/100
BL	(0°-30°)	204.6	3.3	B1/500		
BM	(30°-60°)	425.8	6.9	B1/1000		
BH	(60°-80°)	284.4	4.6	B1/500		G1/500
BVH	(80°-90°)	41.8	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P270104

CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2
2.5°	640.1	633.1	634.8	623.1	608.7	589.9	569.1	568.8	569.1	567.0	559.4
5°	887.6	879.2	876.0	849.5	810.7	755.6	695.6	689.2	686.6	679.8	664.2
7.5°	1068.3	1063.6	1058.7	1038.6	1003.3	941.7	861.2	847.5	834.2	831.0	813.3
10°	1184.9	1183.7	1173.2	1167.9	1145.9	1092.4	1013.9	1000.7	986.3	981.3	962.8
12.5°	1277.0	1276.8	1271.7	1273.2	1254.2	1215.4	1147.9	1135.8	1125.3	1109.9	1096.7
15°	1340.7	1341.1	1348.4	1356.7	1353.7	1327.5	1264.2	1258.8	1249.7	1239.1	1223.6
17.5°	1393.0	1394.5	1402.1	1417.2	1433.2	1431.3	1381.0	1376.7	1368.7	1354.3	1346.0
20°	1511.1	1516.6	1502.0	1502.0	1503.9	1511.8	1487.6	1484.1	1473.0	1465.3	1458.8
22.5°	1710.5	1716.9	1683.8	1650.0	1616.8	1592.8	1568.6	1573.1	1565.5	1560.2	1556.3
25°	1969.4	1974.5	1920.8	1863.8	1796.3	1708.1	1648.6	1646.0	1641.7	1638.5	1636.8
27.5°	2213.2	2215.3	2164.5	2081.1	2002.6	1876.1	1729.6	1726.3	1721.4	1715.2	1709.9
30°	2421.7	2421.1	2368.9	2289.3	2205.2	2065.3	1852.6	1842.7	1827.9	1811.3	1798.3
32.5°	2602.3	2601.4	2544.1	2461.6	2373.5	2252.5	2021.2	2000.6	1977.7	1945.1	1925.4
35°	2744.4	2743.9	2689.8	2603.7	2502.7	2429.0	2214.4	2189.2	2160.1	2116.3	2086.1
37.5°	2798.1	2798.1	2767.9	2709.2	2619.9	2569.4	2429.0	2398.5	2367.3	2317.7	2283.7
40°	2766.7	2767.3	2773.7	2762.9	2719.4	2680.7	2629.3	2611.1	2584.3	2539.8	2504.3
42.5°	2661.3	2664.6	2707.5	2760.0	2781.8	2775.6	2806.9	2798.8	2779.9	2745.6	2717.4
45°	2527.7	2537.7	2584.6	2684.0	2799.0	2857.5	2955.8	2956.8	2953.2	2934.7	2912.9
47.5°	2344.2	2358.3	2420.2	2554.4	2758.5	2937.1	3107.1	3115.0	3122.3	3110.3	3100.3
50°	2100.5	2117.1	2210.0	2387.9	2676.0	3019.6	3392.8	3428.6	3462.1	3458.0	3464.8
52.5°	1839.4	1859.0	1972.8	2170.9	2534.2	3038.7	3575.4	3633.9	3692.3	3740.1	3790.9
55°	1603.8	1593.3	1707.0	1915.7	2301.0	2952.6	3739.6	3810.1	3875.2	3933.9	3994.5
57.5°	1284.7	1302.1	1416.0	1622.4	1992.4	2709.7	3852.7	3955.7	4049.4	4146.6	4232.3
60°	939.1	956.4	1080.0	1289.7	1657.3	2341.5	3766.2	3922.4	4072.6	4221.5	4337.7
62.5°	567.0	579.9	688.9	888.5	1277.9	1904.9	3381.6	3586.7	3807.4	3985.4	4163.6
65°	352.9	360.3	400.5	510.4	820.7	1422.1	2762.9	2986.4	3224.2	3450.1	3635.4
67.5°	289.0	291.6	298.9	322.5	450.8	927.3	2056.4	2254.4	2468.9	2687.5	2893.5
70°	259.8	258.1	258.1	259.5	289.0	498.6	1346.4	1475.3	1654.1	1844.1	2032.7
72.5°	234.6	232.8	229.6	225.2	235.8	304.3	695.9	793.1	922.0	1090.8	1271.5
75°	210.8	208.5	204.6	199.1	206.5	229.6	334.2	375.0	437.8	527.7	628.4
77.5°	186.2	183.3	179.8	175.6	185.0	178.5	195.8	210.6	234.6	263.4	301.3
80°	158.2	155.6	154.5	152.4	163.6	135.9	138.2	147.4	161.5	177.1	194.7
82.5°	123.9	123.9	128.6	129.4	141.8	97.7	103.3	111.2	118.7	126.8	135.1
85°	81.7	82.2	98.1	104.2	111.9	65.8	77.4	80.2	86.1	90.7	94.2
87.5°	25.6	27.6	59.9	66.4	64.3	37.4	47.6	48.7	52.9	56.1	59.0
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: P270104

CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7027-1200

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2
2.5°	559.4	555.9	552.6	552.4	549.9	546.8	548.0	542.9	543.2	540.6	537.7
5°	657.7	655.4	643.6	640.5	631.6	626.1	625.2	613.5	612.0	605.3	597.8
7.5°	799.3	791.7	775.2	767.3	752.3	741.2	735.9	720.4	712.6	695.1	687.2
10°	947.5	937.9	917.7	906.5	892.1	874.1	864.5	841.9	833.1	816.9	797.5
12.5°	1085.1	1075.4	1054.5	1046.0	1026.9	1007.8	997.3	971.7	960.2	934.3	919.1
15°	1212.2	1202.5	1184.2	1175.4	1156.4	1140.8	1126.7	1101.5	1087.9	1063.9	1043.8
17.5°	1335.5	1325.2	1309.4	1301.5	1283.0	1267.1	1251.8	1228.1	1214.2	1190.2	1172.2
20°	1450.0	1442.3	1431.0	1420.3	1401.8	1387.4	1369.3	1348.7	1328.8	1311.2	1294.0
22.5°	1549.8	1547.0	1534.6	1529.9	1514.0	1501.7	1485.9	1465.6	1451.2	1428.8	1413.0
25°	1635.9	1635.0	1629.2	1627.7	1616.5	1604.7	1601.2	1584.4	1571.3	1551.6	1535.2
27.5°	1709.9	1710.7	1709.3	1713.4	1710.5	1705.2	1705.4	1700.0	1692.2	1675.9	1661.5
30°	1792.1	1787.4	1790.1	1796.0	1797.7	1798.3	1808.0	1811.3	1810.6	1799.8	1792.7
32.5°	1908.4	1897.3	1887.0	1886.1	1892.0	1894.3	1910.8	1919.2	1926.6	1929.2	1930.5
35°	2056.7	2034.4	2012.9	2001.5	1991.5	1994.1	2005.9	2019.7	2035.8	2047.1	2060.3
37.5°	2243.4	2216.1	2178.2	2151.3	2144.4	2129.8	2137.4	2148.3	2164.1	2181.5	2204.4
40°	2469.8	2428.4	2385.9	2350.1	2330.7	2303.7	2303.3	2301.4	2311.0	2327.1	2359.4
42.5°	2687.7	2651.0	2605.9	2568.3	2542.9	2506.9	2499.5	2480.4	2484.9	2499.0	2530.3
45°	2891.8	2861.6	2834.0	2790.5	2769.1	2730.0	2717.6	2695.1	2682.4	2688.9	2720.4
47.5°	3089.5	3070.0	3041.3	3013.1	2996.7	2961.7	2945.9	2929.7	2913.6	2912.9	2945.9
50°	3474.7	3464.5	3430.4	3401.0	3408.9	3366.0	3368.6	3325.3	3344.9	3347.3	3416.3
52.5°	3836.8	3872.6	3897.9	3928.6	3948.6	3952.5	3965.7	3985.4	4009.1	4056.1	4120.2
55°	4044.1	4089.0	4115.1	4138.6	4177.4	4185.6	4207.7	4233.7	4254.6	4307.5	4361.8
57.5°	4290.5	4373.8	4414.4	4451.7	4503.9	4523.9	4560.6	4589.1	4616.1	4678.6	4744.4
60°	4442.2	4543.8	4626.5	4685.4	4750.9	4797.8	4853.4	4898.0	4961.4	5036.3	5134.4
62.5°	4321.6	4470.8	4580.3	4681.6	4770.6	4860.4	4940.0	5023.4	5119.8	5233.1	5385.2
65°	3840.9	3992.7	4180.4	4285.5	4403.3	4541.8	4662.8	4797.8	4929.1	5094.2	5319.1
67.5°	3092.1	3268.6	3479.4	3585.5	3720.9	3875.5	4011.3	4176.2	4329.6	4529.4	4807.5
70°	2228.8	2457.0	2634.3	2745.0	2903.1	3062.4	3193.5	3385.4	3512.4	3717.3	4004.8
72.5°	1411.2	1591.3	1808.6	1948.1	2088.4	2249.9	2383.8	2549.4	2667.8	2854.5	3115.0
75°	758.8	891.5	1082.4	1214.9	1365.2	1503.1	1660.0	1771.0	1858.5	2006.2	2217.6
77.5°	355.6	436.4	533.0	634.8	736.8	843.1	946.5	1036.3	1073.8	1158.4	1283.2
80°	215.9	242.0	270.1	301.7	344.1	378.5	424.1	457.0	459.3	486.0	524.2
82.5°	144.2	153.9	162.4	170.3	181.2	189.7	199.4	210.8	215.5	221.7	234.1
85°	98.5	103.0	104.9	109.8	108.6	111.7	115.4	119.3	121.3	121.0	126.6
87.5°	60.5	62.8	64.0	65.2	64.3	63.1	64.9	66.9	67.6	65.8	66.4
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: P270104

CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7027-1200

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2	504.2
2.5°	538.3	535.6	533.0	531.3	530.6	515.0	508.3	503.9	494.5	486.9	480.7
5°	593.8	588.2	583.7	578.5	575.5	536.2	521.8	511.9	495.3	485.7	476.9
7.5°	683.0	667.4	658.3	648.1	639.3	568.2	544.5	528.8	505.9	493.1	483.0
10°	784.3	768.2	753.9	738.0	724.1	610.8	576.1	552.1	521.8	505.1	491.9
12.5°	897.4	881.5	863.4	843.1	825.5	664.7	616.6	582.3	540.9	518.6	500.1
15°	1031.1	1003.0	981.0	957.6	937.0	729.4	663.9	616.3	561.2	531.0	506.3
17.5°	1155.2	1125.8	1095.8	1075.4	1051.6	802.0	711.5	651.0	578.0	538.9	507.5
20°	1276.5	1244.4	1218.6	1191.0	1166.1	877.1	762.3	681.5	588.7	539.2	500.1
22.5°	1383.4	1363.4	1334.6	1304.7	1279.4	952.3	809.9	707.4	592.9	532.4	487.2
25°	1504.9	1483.8	1448.5	1423.4	1395.1	1028.9	856.6	727.4	590.5	519.8	467.2
27.5°	1634.7	1611.2	1575.1	1548.7	1514.6	1108.5	899.5	741.7	581.7	499.2	440.4
30°	1770.1	1748.7	1713.1	1686.5	1652.0	1192.8	947.3	751.4	564.0	470.7	409.4
32.5°	1915.5	1897.6	1862.4	1834.3	1797.7	1284.1	992.0	754.4	537.5	436.9	376.5
35°	2053.5	2041.1	2011.5	1985.3	1947.2	1370.5	1039.2	752.9	505.7	399.9	346.5
37.5°	2208.8	2201.5	2186.8	2153.6	2107.0	1487.6	1095.8	746.7	466.8	363.3	323.6
40°	2374.4	2374.9	2359.1	2336.6	2293.0	1629.7	1163.4	734.7	424.6	330.9	302.7
42.5°	2549.7	2558.9	2551.3	2535.0	2493.3	1773.0	1244.2	720.1	383.5	299.5	282.2
45°	2750.6	2761.7	2773.4	2749.7	2709.2	1962.1	1350.5	700.9	339.1	273.4	268.1
47.5°	2982.3	2999.9	3010.4	3010.8	2970.2	2196.4	1523.1	689.4	299.8	255.7	261.4
50°	3471.2	3476.7	3501.7	3545.3	3514.1	2738.8	1824.7	682.4	273.1	244.9	256.4
52.5°	4175.7	4237.0	4280.2	4277.3	4235.0	3083.3	1991.0	646.1	257.2	240.8	254.0
55°	4462.5	4539.2	4619.0	4640.2	4607.3	3377.3	2148.0	609.6	249.6	243.7	254.9
57.5°	4844.9	4974.1	5083.6	5129.7	5082.2	3753.4	2354.7	590.5	247.3	251.6	260.5
60°	5291.5	5451.3	5595.2	5677.9	5677.9	4185.6	2569.1	582.6	244.0	263.4	269.9
62.5°	5578.4	5813.0	6030.3	6151.6	6148.1	4486.7	2664.2	555.6	236.7	271.6	282.8
65°	5579.6	5858.6	6135.4	6271.7	6278.7	4449.6	2507.2	490.7	223.1	272.7	295.7
67.5°	5114.5	5411.9	5734.7	5887.0	5922.3	4096.1	2170.3	403.5	201.1	261.0	300.4
70°	4319.5	4609.9	4939.4	5089.2	5151.7	3491.8	1748.1	311.0	173.0	235.3	290.7
72.5°	3403.1	3687.9	3917.2	4026.7	4075.5	2669.0	1272.9	234.9	141.8	198.2	264.6
75°	2409.4	2623.1	2745.0	2769.4	2777.0	1608.9	773.4	174.7	116.9	154.1	223.5
77.5°	1359.9	1451.5	1441.5	1452.4	1362.0	621.1	336.9	125.1	96.3	117.1	173.3
80°	531.0	547.3	514.2	503.9	462.2	231.0	148.6	87.2	76.9	88.7	121.3
82.5°	234.1	241.7	234.6	236.3	226.1	119.3	88.9	63.1	58.7	64.9	80.5
85°	128.9	131.2	130.6	134.5	128.9	47.6	42.2	38.8	41.1	44.1	51.7
87.5°	62.8	63.4	61.4	64.7	62.5	24.2	20.8	22.0	24.2	24.7	24.7
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: P270104

CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7027-1200

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	504.2	504.2	504.2	504.2	504.2	504.2
2.5°	476.3	473.9	474.2	473.7	472.5	472.5
5°	472.2	469.9	469.9	469.2	467.7	468.0
7.5°	476.3	472.5	471.1	468.9	466.8	466.8
10°	481.0	474.2	470.2	466.6	464.0	464.0
12.5°	484.5	473.9	467.2	462.4	459.8	459.8
15°	485.7	471.9	462.4	457.0	454.5	454.3
17.5°	481.9	464.0	452.5	446.0	443.1	442.1
20°	470.2	449.6	435.8	428.4	424.4	422.9
22.5°	452.5	428.9	412.9	405.2	399.9	399.0
25°	427.8	402.6	386.7	379.4	376.5	375.6
27.5°	399.0	375.6	362.1	357.3	354.7	354.4
30°	371.7	351.8	341.8	338.3	335.1	334.4
32.5°	346.2	333.5	329.8	324.7	317.1	316.3
35°	328.1	326.8	324.2	313.0	303.6	301.0
37.5°	316.8	327.7	314.1	292.1	285.4	284.9
40°	310.4	318.6	295.5	287.8	288.4	287.8
42.5°	295.7	304.3	296.0	292.5	294.8	295.5
45°	281.1	290.4	300.4	298.1	303.6	303.6
47.5°	272.7	286.8	300.0	300.0	308.4	311.3
50°	263.4	284.0	295.5	299.5	306.0	303.6
52.5°	262.8	278.9	288.7	296.0	298.9	296.3
55°	263.7	274.9	281.9	290.2	293.6	293.9
57.5°	264.8	272.5	277.2	281.1	291.6	291.6
60°	267.9	270.5	273.1	275.2	289.0	289.3
62.5°	272.5	268.4	267.9	269.9	287.5	286.3
65°	279.8	265.4	261.0	263.1	286.0	282.5
67.5°	289.9	261.0	252.5	254.0	284.9	277.2
70°	298.9	254.0	242.0	240.6	273.6	260.1
72.5°	299.8	245.8	227.4	222.9	237.9	224.9
75°	285.1	240.2	211.1	198.2	196.5	194.7
77.5°	256.9	237.0	192.3	172.0	168.5	169.7
80°	215.0	224.9	169.7	145.7	164.7	162.7
82.5°	160.6	198.4	144.2	128.9	128.6	113.6
85°	89.3	154.8	117.4	96.6	67.3	65.2
87.5°	25.0	86.1	82.2	54.6	37.4	38.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)