

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: P200019

Luminaire Tested: **GWC-AF-01-LED-E1-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200019
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-7030-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4149.1 lumens
Efficiency: N/A
Efficacy: 122.0 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

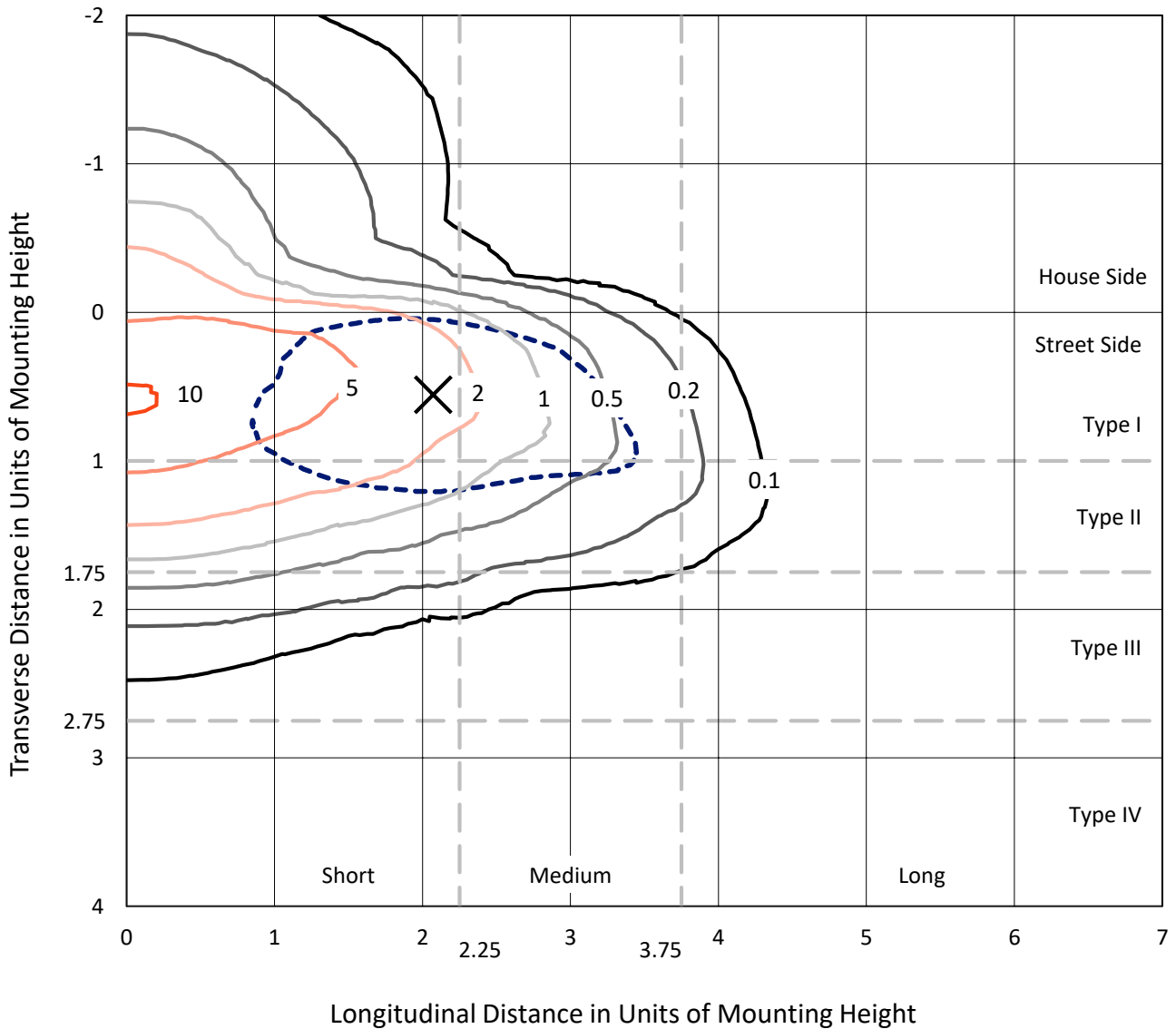
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200019
 CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7030-600

Iso-Footcandle Lines of Horizontal Illumination

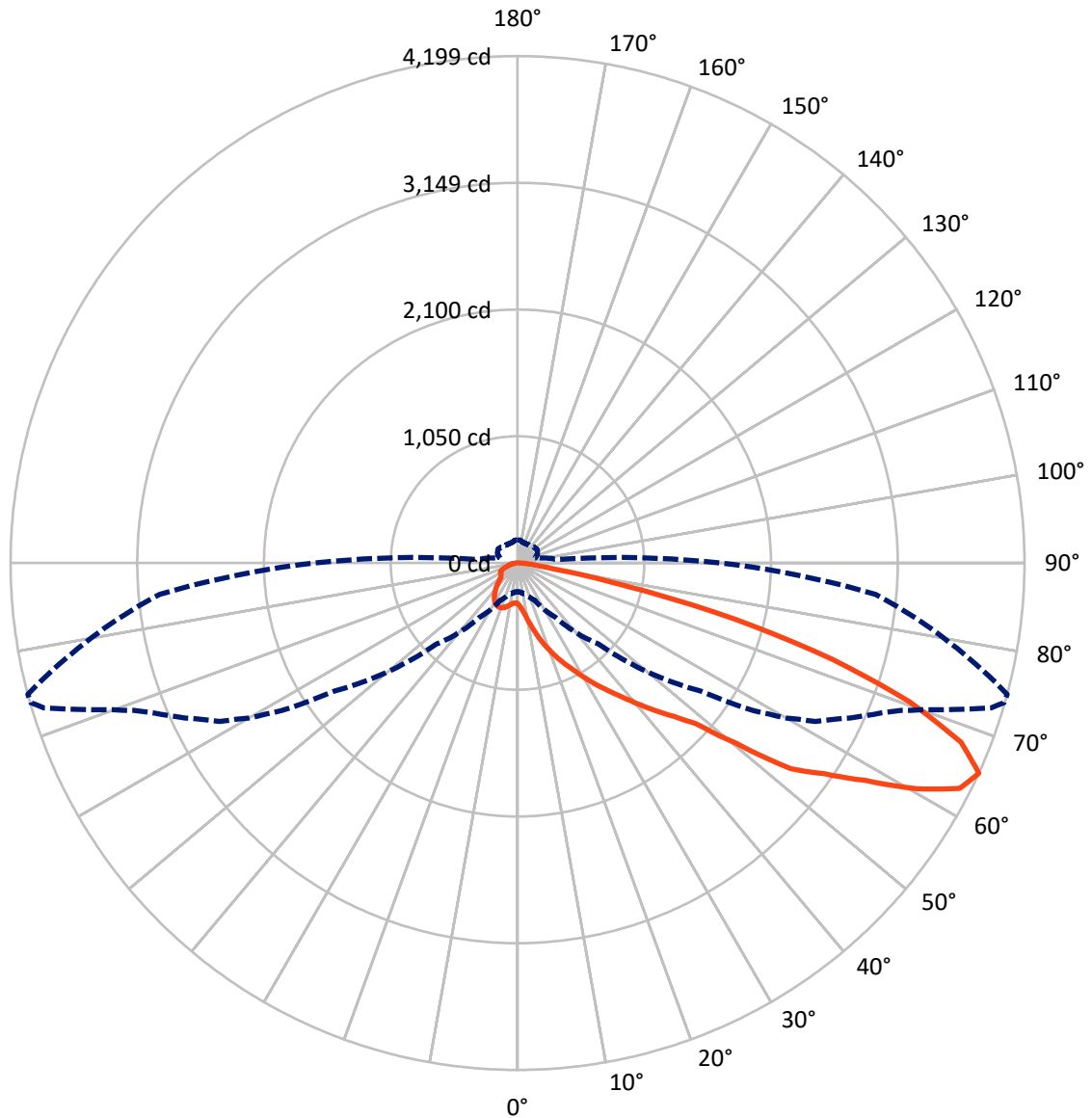
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P200019
CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P200019

CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	639.7	0.0	639.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3509.5	0.0	3509.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	4149.1	0.0	4149.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	1.0
10°-20°	162.8	3.9
20°-30°	334.1	8.1
30°-40°	562.1	13.5
40°-50°	776.7	18.7
50°-60°	969.6	23.4
60°-70°	872.5	21.0
70°-80°	365.7	8.8
80°-90°	63.9	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°	4149.1	100.0
0°-180°	4149.1	100.0



REPORT NUMBER: P200019

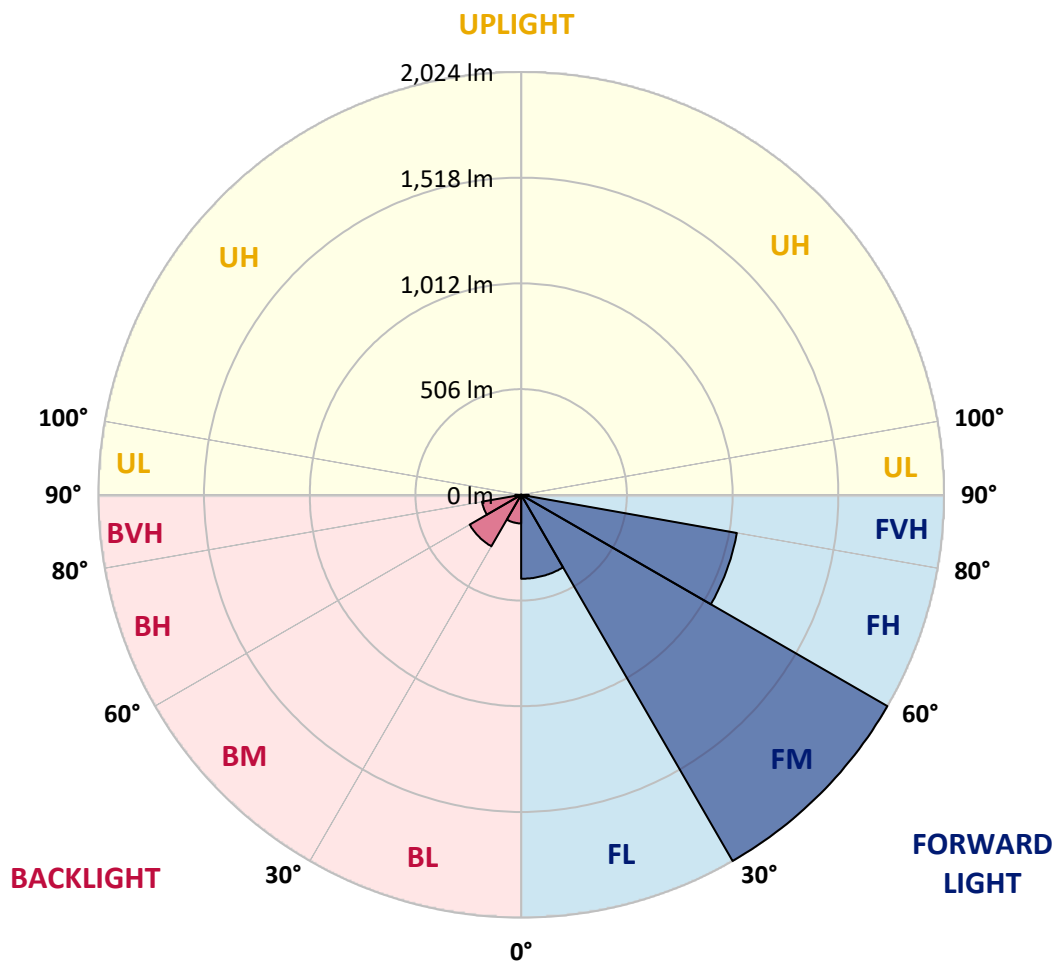
CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	401.8	9.7			
FM	(30°-60°)	2023.6	48.8			
FH	(60°-80°)	1048.1	25.3			G1/1800
FVH	(80°-90°)	35.9	0.9			G1/100
BL	(0°-30°)	136.8	3.3	B1/500		
BM	(30°-60°)	284.7	6.9	B1/1000		
BH	(60°-80°)	190.2	4.6	B1/500		G1/500
BVH	(80°-90°)	28.0	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: P200019

CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2
2.5°	428.1	423.4	424.6	416.7	407.1	394.5	380.7	380.4	380.7	379.3	374.1
5°	593.6	587.9	585.8	568.2	542.2	505.4	465.3	460.9	459.2	454.7	444.2
7.5°	714.5	711.4	708.0	694.6	671.1	629.8	576.0	566.8	558.0	555.7	544.0
10°	792.5	791.6	784.6	781.1	766.4	730.6	678.2	669.3	659.7	656.4	643.9
12.5°	854.1	853.9	850.6	851.5	838.7	812.9	767.6	759.6	752.6	742.3	733.5
15°	896.7	896.9	901.8	907.3	905.3	887.8	845.4	842.0	835.8	828.8	818.3
17.5°	931.7	932.6	937.8	947.8	958.6	957.2	923.6	920.7	915.3	905.8	900.3
20°	1010.6	1014.4	1004.5	1004.5	1005.7	1011.0	994.9	992.6	985.0	980.0	975.7
22.5°	1144.0	1148.3	1126.1	1103.5	1081.3	1065.2	1049.2	1052.1	1046.9	1043.4	1040.9
25°	1317.1	1320.5	1284.6	1246.5	1201.4	1142.4	1102.5	1100.7	1098.0	1095.9	1094.7
27.5°	1480.2	1481.6	1447.5	1391.8	1339.4	1254.7	1156.7	1154.5	1151.2	1147.1	1143.6
30°	1619.6	1619.2	1584.3	1531.0	1474.9	1381.2	1239.1	1232.3	1222.5	1211.3	1202.6
32.5°	1740.4	1739.8	1701.5	1646.3	1587.4	1506.5	1351.7	1338.0	1322.7	1300.9	1287.7
35°	1835.5	1835.1	1798.9	1741.4	1673.8	1624.5	1480.9	1464.1	1444.6	1415.4	1395.1
37.5°	1871.4	1871.4	1851.2	1811.9	1752.1	1718.4	1624.5	1604.1	1583.3	1550.1	1527.3
40°	1850.4	1850.7	1855.0	1847.8	1818.7	1792.8	1758.5	1746.2	1728.4	1698.5	1674.8
42.5°	1779.8	1782.0	1810.7	1845.8	1860.4	1856.2	1877.3	1871.8	1859.2	1836.2	1817.3
45°	1690.5	1697.1	1728.6	1795.0	1872.0	1911.1	1976.8	1977.5	1975.1	1962.7	1948.2
47.5°	1567.7	1577.2	1618.6	1708.4	1844.8	1964.3	2078.0	2083.3	2088.2	2080.2	2073.5
50°	1404.8	1416.0	1478.0	1597.0	1789.7	2019.5	2269.1	2293.0	2315.4	2312.7	2317.2
52.5°	1230.1	1243.3	1319.3	1451.9	1694.8	2032.3	2391.2	2430.3	2469.4	2501.4	2535.4
55°	1072.7	1065.6	1141.6	1281.3	1538.9	1974.7	2501.0	2548.1	2591.7	2631.1	2671.4
57.5°	859.2	870.8	947.0	1085.0	1332.5	1812.3	2576.6	2645.6	2708.2	2773.2	2830.5
60°	628.0	639.6	722.3	862.5	1108.4	1566.0	2518.9	2623.3	2723.7	2823.3	2901.1
62.5°	379.3	387.8	460.8	594.3	854.6	1274.0	2261.6	2398.7	2546.4	2665.4	2784.5
65°	236.1	240.9	267.9	341.3	548.9	951.1	1847.8	1997.2	2156.3	2307.3	2431.3
67.5°	193.2	195.1	199.9	215.7	301.5	620.2	1375.4	1507.7	1651.2	1797.4	1935.2
70°	173.8	172.6	172.6	173.6	193.2	333.5	900.4	986.6	1106.3	1233.4	1359.3
72.5°	156.9	155.7	153.6	150.6	157.7	203.4	465.4	530.5	616.6	729.6	850.3
75°	141.0	139.4	136.8	133.2	138.0	153.6	223.5	250.8	292.8	352.9	420.3
77.5°	124.5	122.6	120.2	117.4	123.7	119.4	131.0	140.8	156.9	176.1	201.5
80°	105.9	104.1	103.3	101.9	109.3	91.0	92.5	98.6	108.1	118.5	130.2
82.5°	82.9	82.9	86.0	86.6	94.8	65.4	69.2	74.4	79.4	84.9	90.3
85°	54.6	55.0	65.6	69.7	74.9	44.0	51.9	53.6	57.6	60.7	63.0
87.5°	17.1	18.5	40.1	44.4	43.0	24.9	31.8	32.7	35.3	37.5	39.5
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: P200019

CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7030-600

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2
2.5°	374.1	371.7	369.6	369.4	367.9	365.7	366.5	363.1	363.4	361.5	359.6
5°	439.9	438.3	430.5	428.3	422.4	418.7	418.1	410.3	409.2	404.7	399.9
7.5°	534.6	529.4	518.5	513.2	503.1	495.7	492.1	481.7	476.7	464.9	459.6
10°	633.7	627.3	613.7	606.2	596.6	584.6	578.2	563.0	557.1	546.4	533.4
12.5°	725.6	719.2	705.2	699.5	686.8	674.0	666.9	649.8	642.2	624.9	614.7
15°	810.7	804.2	792.0	786.1	773.3	762.9	753.6	736.6	727.6	711.5	698.1
17.5°	893.2	886.3	875.7	870.4	858.0	847.4	837.2	821.3	812.1	796.0	784.0
20°	969.8	964.6	957.0	949.9	937.6	927.9	915.8	902.0	888.7	876.9	865.5
22.5°	1036.5	1034.5	1026.3	1023.2	1012.5	1004.4	993.7	980.2	970.5	955.6	945.0
25°	1094.1	1093.5	1089.5	1088.6	1081.2	1073.2	1070.9	1059.7	1050.9	1037.7	1026.7
27.5°	1143.6	1144.1	1143.1	1145.9	1144.0	1140.5	1140.7	1136.9	1131.8	1120.8	1111.1
30°	1198.6	1195.4	1197.2	1201.1	1202.3	1202.6	1209.2	1211.3	1210.9	1203.6	1199.0
32.5°	1276.3	1268.9	1262.0	1261.4	1265.4	1266.9	1277.9	1283.6	1288.5	1290.3	1291.0
35°	1375.5	1360.5	1346.2	1338.6	1331.9	1333.7	1341.5	1350.8	1361.6	1369.0	1377.8
37.5°	1500.4	1482.1	1456.8	1438.7	1434.2	1424.4	1429.5	1436.8	1447.4	1458.9	1474.3
40°	1651.8	1624.1	1595.6	1571.7	1558.7	1540.7	1540.4	1539.0	1545.6	1556.3	1577.9
42.5°	1797.6	1773.0	1742.8	1717.7	1700.7	1676.5	1671.7	1658.9	1661.8	1671.3	1692.3
45°	1934.0	1913.8	1895.3	1866.3	1851.9	1825.8	1817.5	1802.4	1794.0	1798.3	1819.4
47.5°	2066.2	2053.2	2034.0	2015.2	2004.1	1980.8	1970.2	1959.3	1948.6	1948.2	1970.2
50°	2323.9	2317.0	2294.2	2274.6	2279.8	2251.2	2253.0	2223.9	2237.1	2238.6	2284.8
52.5°	2566.0	2589.9	2606.9	2627.5	2640.8	2643.4	2652.2	2665.4	2681.3	2712.7	2755.5
55°	2704.6	2734.7	2752.2	2767.9	2793.8	2799.4	2814.1	2831.5	2845.4	2880.8	2917.2
57.5°	2869.4	2925.2	2952.3	2977.2	3012.2	3025.6	3050.0	3069.2	3087.2	3129.0	3173.0
60°	2971.0	3038.9	3094.1	3133.6	3177.3	3208.8	3245.9	3275.7	3318.1	3368.3	3433.8
62.5°	2890.2	2990.0	3063.3	3131.0	3190.5	3250.6	3303.9	3359.6	3424.0	3499.9	3601.6
65°	2568.8	2670.3	2795.8	2866.1	2944.8	3037.5	3118.5	3208.8	3296.5	3407.0	3557.3
67.5°	2067.9	2186.0	2327.0	2397.9	2488.4	2592.0	2682.6	2793.0	2895.5	3029.3	3215.2
70°	1490.6	1643.2	1761.8	1835.8	1941.5	2048.2	2135.7	2264.1	2349.0	2486.1	2678.3
72.5°	943.8	1064.2	1209.5	1302.9	1396.7	1504.7	1594.2	1705.0	1784.1	1909.1	2083.3
75°	507.5	596.2	723.9	812.4	913.0	1005.3	1110.2	1184.4	1242.9	1341.7	1483.1
77.5°	237.8	291.8	356.5	424.6	492.8	563.8	633.0	693.1	718.2	774.7	858.2
80°	144.4	161.9	180.7	201.7	230.2	253.2	283.6	305.6	307.2	325.0	350.6
82.5°	96.5	102.9	108.6	113.9	121.2	126.8	133.4	141.0	144.1	148.2	156.5
85°	65.8	69.0	70.1	73.5	72.7	74.6	77.2	79.7	81.1	80.9	84.6
87.5°	40.5	42.0	42.9	43.6	43.0	42.2	43.4	44.8	45.2	44.0	44.4
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: P200019

CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-7030-600

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2	337.2
2.5°	360.0	358.2	356.5	355.3	354.9	344.5	339.9	337.0	330.7	325.7	321.5
5°	397.1	393.3	390.4	386.9	384.9	358.6	349.0	342.3	331.4	324.8	318.9
7.5°	456.8	446.4	440.3	433.4	427.6	380.0	364.1	353.7	338.3	329.7	323.1
10°	524.6	513.7	504.2	493.5	484.3	408.5	385.3	369.2	349.0	337.8	329.0
12.5°	600.2	589.6	577.4	563.8	552.1	444.7	412.4	389.5	361.7	346.8	334.5
15°	689.6	670.9	656.2	640.5	626.7	487.8	444.0	412.2	375.3	355.1	338.5
17.5°	772.6	752.9	732.9	719.2	703.3	536.3	475.8	435.4	386.5	360.4	339.4
20°	853.7	832.3	815.0	796.5	779.9	586.7	509.9	455.8	393.8	360.6	334.5
22.5°	925.2	911.8	892.6	872.6	855.7	636.9	541.7	473.1	396.5	356.1	325.8
25°	1006.5	992.3	968.8	951.8	933.0	688.2	572.9	486.4	394.9	347.6	312.4
27.5°	1093.3	1077.6	1053.5	1035.7	1013.0	741.3	601.6	496.1	389.0	333.8	294.6
30°	1183.8	1169.5	1145.7	1127.9	1104.9	797.7	633.6	502.6	377.2	314.8	273.8
32.5°	1281.0	1269.0	1245.5	1226.8	1202.3	858.8	663.3	504.5	359.4	292.3	251.8
35°	1373.3	1365.0	1345.3	1327.8	1302.2	916.5	695.0	503.5	338.2	267.4	231.8
37.5°	1477.3	1472.3	1462.5	1440.3	1409.1	994.9	732.9	499.4	312.2	243.0	216.4
40°	1588.0	1588.3	1577.8	1562.7	1533.6	1090.0	778.1	491.4	284.0	221.4	202.5
42.5°	1705.2	1711.3	1706.2	1695.4	1667.5	1185.8	832.1	481.5	256.5	200.3	188.7
45°	1839.6	1847.0	1854.9	1838.9	1811.9	1312.3	903.2	468.7	226.8	182.8	179.3
47.5°	1994.6	2006.3	2013.4	2013.6	1986.5	1469.0	1018.7	461.1	200.5	171.1	174.8
50°	2321.5	2325.3	2341.9	2371.0	2350.2	1831.7	1220.4	456.4	182.6	163.8	171.4
52.5°	2792.6	2833.7	2862.5	2860.6	2832.3	2062.1	1331.5	432.1	172.1	161.0	169.9
55°	2984.5	3035.8	3089.1	3103.3	3081.3	2258.7	1436.6	407.7	166.9	163.0	170.5
57.5°	3240.2	3326.6	3399.9	3430.7	3398.9	2510.2	1574.8	394.9	165.4	168.3	174.2
60°	3538.9	3645.7	3742.0	3797.4	3797.4	2799.4	1718.2	389.7	163.2	176.1	180.4
62.5°	3730.8	3887.7	4033.0	4114.1	4111.8	3000.6	1781.8	371.5	158.3	181.6	189.1
65°	3731.5	3918.1	4103.3	4194.5	4199.2	2975.8	1676.7	328.1	149.3	182.5	197.7
67.5°	3420.5	3619.4	3835.3	3937.2	3960.8	2739.4	1451.5	269.8	134.5	174.5	200.9
70°	2888.8	3083.1	3303.4	3403.6	3445.4	2335.3	1169.1	207.9	115.7	157.4	194.4
72.5°	2276.0	2466.4	2619.8	2693.0	2725.7	1785.0	851.3	157.1	94.8	132.5	176.9
75°	1611.3	1754.3	1835.8	1852.1	1857.3	1076.0	517.3	116.9	78.2	103.1	149.4
77.5°	909.4	970.7	964.1	971.3	910.8	415.3	225.2	83.7	64.4	78.4	115.9
80°	355.1	366.0	343.9	337.0	309.1	154.6	99.4	58.3	51.4	59.3	81.1
82.5°	156.5	161.6	156.9	158.1	151.2	79.7	59.5	42.2	39.3	43.4	53.8
85°	86.2	87.8	87.4	89.9	86.2	31.8	28.2	25.9	27.5	29.4	34.6
87.5°	42.0	42.4	41.0	43.2	41.8	16.1	14.0	14.7	16.1	16.5	16.5
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: P200019

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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	337.2	337.2	337.2	337.2	337.2	337.2
2.5°	318.6	317.0	317.2	316.7	316.0	316.0
5°	315.8	314.2	314.2	313.8	312.9	313.1
7.5°	318.6	316.0	315.0	313.6	312.2	312.2
10°	321.7	317.2	314.4	312.0	310.3	310.3
12.5°	324.0	317.0	312.4	309.3	307.5	307.5
15°	324.8	315.6	309.3	305.6	304.0	303.9
17.5°	322.2	310.3	302.7	298.3	296.3	295.8
20°	314.4	300.6	291.4	286.6	283.8	282.8
22.5°	302.7	286.9	276.1	271.0	267.4	266.9
25°	286.1	269.3	258.6	253.7	251.8	251.2
27.5°	266.9	251.2	242.1	239.0	237.3	237.0
30°	248.6	235.2	228.6	226.2	224.1	223.7
32.5°	231.6	223.1	220.5	217.2	212.1	211.5
35°	219.3	218.6	216.9	209.3	203.1	201.3
37.5°	211.9	219.2	210.1	195.4	190.9	190.5
40°	207.6	213.1	197.5	192.5	192.9	192.5
42.5°	197.7	203.4	198.0	195.6	197.2	197.5
45°	188.0	194.2	200.9	199.3	203.1	203.1
47.5°	182.5	191.8	200.7	200.7	206.2	208.2
50°	176.1	189.9	197.5	200.3	204.6	203.1
52.5°	175.7	186.6	193.0	198.0	199.9	198.2
55°	176.4	183.8	188.5	194.0	196.3	196.6
57.5°	177.1	182.3	185.4	188.0	195.1	195.1
60°	179.2	180.9	182.6	184.0	193.2	193.4
62.5°	182.3	179.5	179.2	180.4	192.3	191.5
65°	187.2	177.5	174.5	175.9	191.3	188.9
67.5°	193.9	174.5	168.8	169.9	190.5	185.4
70°	199.9	169.9	161.9	160.8	183.0	174.0
72.5°	200.5	164.3	152.0	149.1	159.1	150.5
75°	190.6	160.7	141.2	132.5	131.4	130.2
77.5°	171.9	158.5	128.7	115.0	112.8	113.5
80°	143.7	150.5	113.5	97.4	110.2	108.8
82.5°	107.4	132.8	96.5	86.2	86.0	76.0
85°	59.7	103.5	78.5	64.7	45.0	43.6
87.5°	16.6	57.6	55.0	36.5	24.9	25.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

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