

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: P200181

Luminaire Tested: **GWC-AF-01-LED-E1-T2R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200181
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-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5473.8 lumens
Efficiency: N/A
Efficacy: 124.4 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

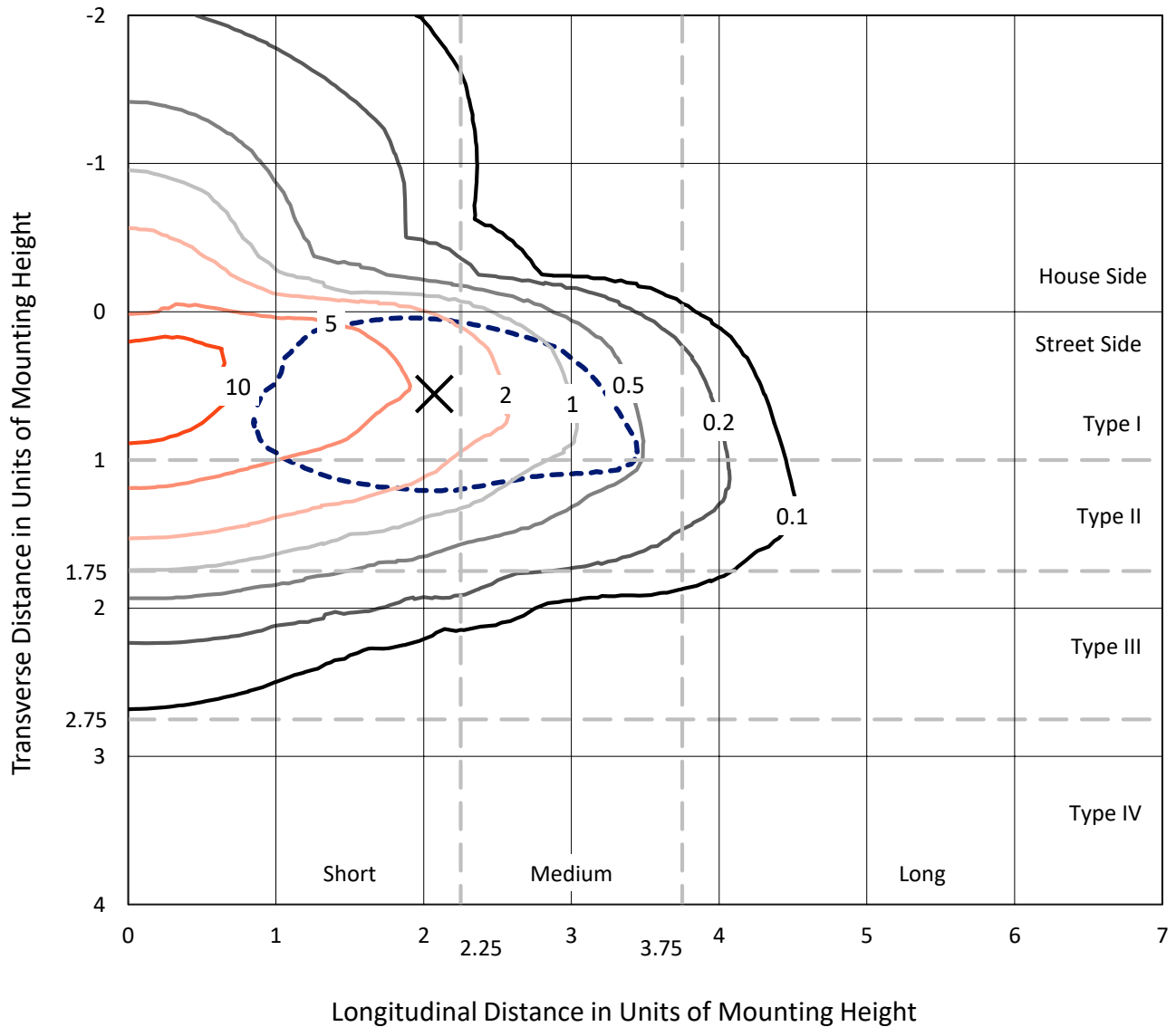
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

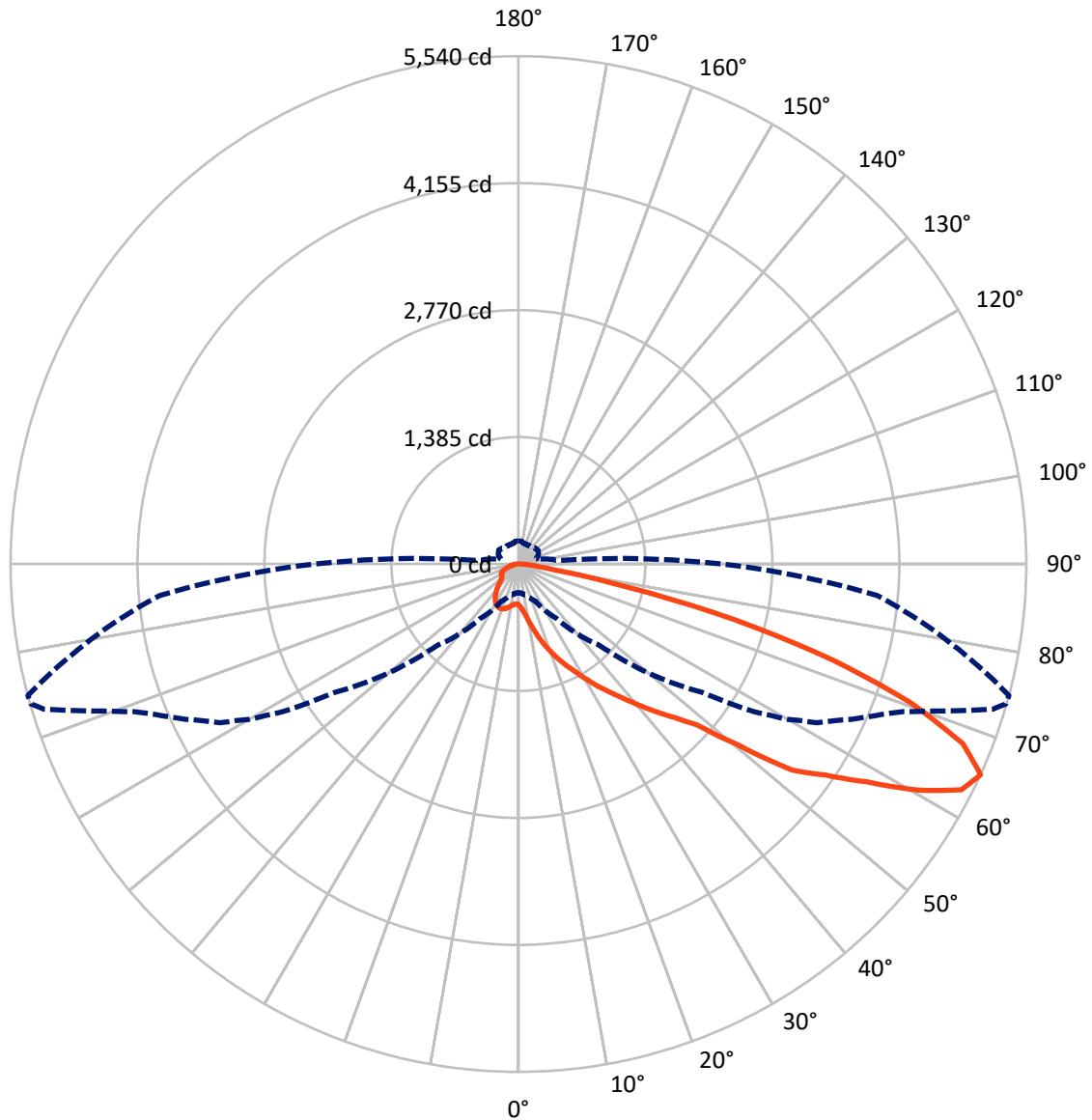
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	843.9	0.0	843.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4629.9	0.0	4629.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	5473.8	0.0	5473.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.0
10°-20°	214.8	3.9
20°-30°	440.8	8.1
30°-40°	741.6	13.5
40°-50°	1024.7	18.7
50°-60°	1279.1	23.4
60°-70°	1151.1	21.0
70°-80°	482.5	8.8
80°-90°	84.3	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°	5473.8	100.0
0°-180°	5473.8	100.0



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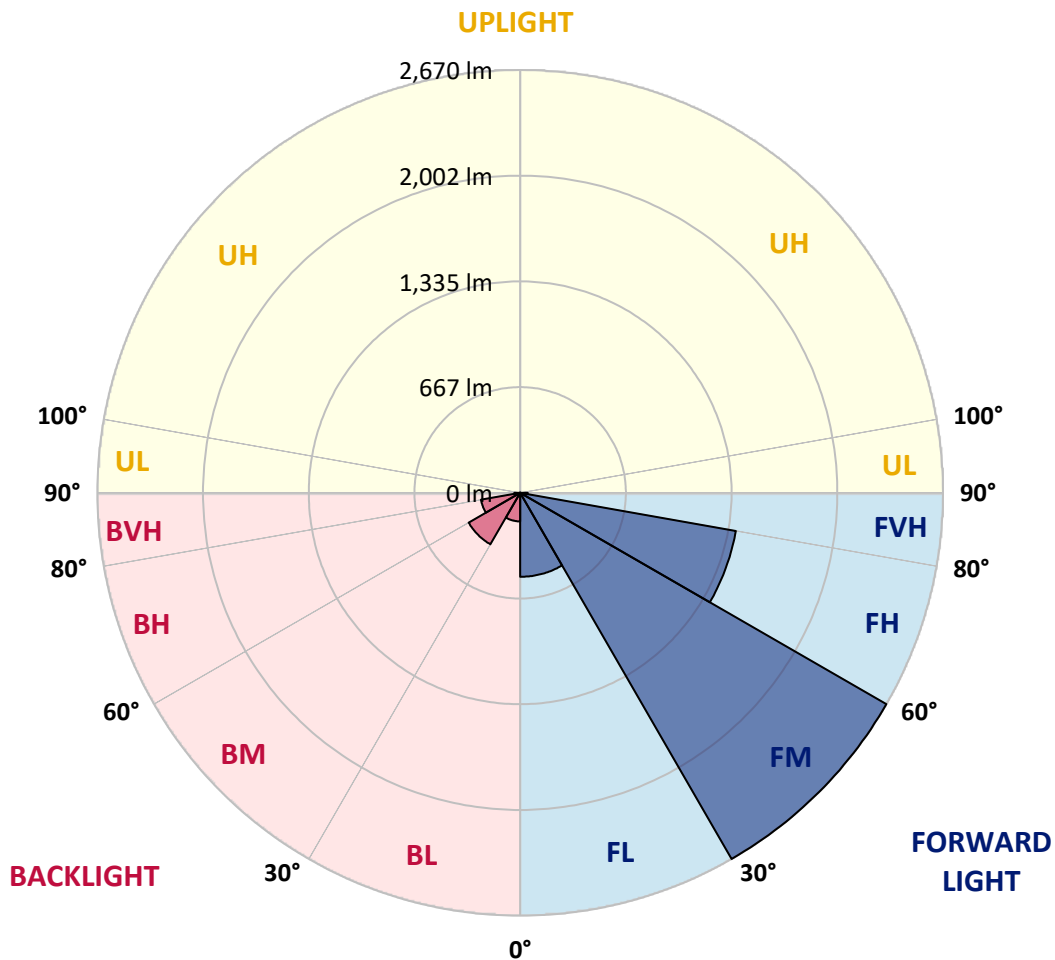
CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	530.1	9.7			
FM	(30°-60°)	2669.7	48.8			
FH	(60°-80°)	1382.7	25.3			G1/1800
FVH	(80°-90°)	47.4	0.9			G1/100
BL	(0°-30°)	180.5	3.3	B1/500		
BM	(30°-60°)	375.6	6.9	B1/1000		
BH	(60°-80°)	250.9	4.6	B1/500		G1/500
BVH	(80°-90°)	36.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9
2.5°	564.8	558.6	560.2	549.7	537.0	520.5	502.1	501.9	502.1	500.3	493.6
5°	783.2	775.7	772.8	749.5	715.3	666.7	613.8	608.0	605.8	599.8	586.0
7.5°	942.5	938.5	934.1	916.4	885.3	830.8	760.0	747.7	736.1	733.3	717.7
10°	1045.5	1044.3	1035.0	1030.4	1011.0	963.8	894.7	883.0	870.2	865.8	849.6
12.5°	1126.8	1126.5	1122.1	1123.4	1106.5	1072.4	1012.7	1002.2	992.8	979.4	967.7
15°	1182.9	1183.2	1189.7	1197.0	1194.4	1171.4	1115.3	1110.7	1102.6	1093.3	1079.6
17.5°	1229.1	1230.4	1237.2	1250.4	1264.6	1262.8	1218.4	1214.5	1207.6	1194.9	1187.6
20°	1333.2	1338.2	1325.2	1325.2	1326.8	1333.8	1312.5	1309.4	1299.6	1292.8	1287.2
22.5°	1509.2	1514.9	1485.6	1455.8	1426.5	1405.3	1384.1	1387.9	1381.2	1376.5	1373.2
25°	1737.7	1742.1	1694.7	1644.4	1584.9	1507.1	1454.5	1452.2	1448.6	1445.7	1444.1
27.5°	1952.7	1954.6	1909.7	1836.2	1766.9	1655.3	1526.0	1523.2	1518.8	1513.4	1508.6
30°	2136.6	2136.1	2090.1	2019.8	1945.8	1822.2	1634.6	1625.8	1612.8	1598.1	1586.6
32.5°	2296.0	2295.3	2244.8	2171.9	2094.2	1987.5	1783.3	1765.2	1744.9	1716.2	1698.8
35°	2421.4	2420.9	2373.2	2297.3	2208.2	2143.2	1953.7	1931.5	1905.9	1867.2	1840.6
37.5°	2468.8	2468.8	2442.2	2390.3	2311.6	2267.0	2143.2	2116.2	2088.8	2045.0	2014.9
40°	2441.1	2441.7	2447.3	2437.8	2399.4	2365.2	2319.8	2303.8	2280.3	2240.9	2209.5
42.5°	2348.1	2350.9	2388.8	2435.1	2454.4	2448.8	2476.6	2469.4	2452.7	2422.4	2397.6
45°	2230.2	2239.0	2280.5	2368.0	2469.6	2521.2	2608.0	2608.7	2605.7	2589.3	2570.2
47.5°	2068.3	2080.7	2135.4	2253.8	2433.9	2591.3	2741.4	2748.4	2754.9	2744.3	2735.5
50°	1853.3	1868.0	1949.8	2106.9	2361.1	2664.2	2993.5	3025.1	3054.6	3051.1	3057.0
52.5°	1622.9	1640.3	1740.6	1915.5	2236.0	2681.1	3154.7	3206.2	3257.8	3299.9	3344.8
55°	1415.2	1405.8	1506.1	1690.3	2030.3	2605.1	3299.4	3361.6	3419.2	3471.0	3524.4
57.5°	1133.5	1148.8	1249.3	1431.4	1757.9	2390.8	3399.3	3490.2	3572.8	3658.6	3734.2
60°	828.6	843.8	952.9	1137.9	1462.3	2066.0	3323.1	3460.8	3593.3	3724.7	3827.3
62.5°	500.3	511.7	607.8	784.0	1127.5	1680.7	2983.6	3164.5	3359.3	3516.3	3673.6
65°	311.4	317.9	353.4	450.3	724.1	1254.8	2437.8	2634.9	2844.7	3044.0	3207.5
67.5°	254.9	257.3	263.7	284.5	397.7	818.2	1814.4	1989.0	2178.4	2371.2	2553.1
70°	229.2	227.7	227.7	229.0	254.9	440.0	1188.0	1301.6	1459.4	1627.1	1793.4
72.5°	207.0	205.4	202.6	198.8	208.1	268.4	614.1	699.8	813.6	962.5	1121.9
75°	186.1	183.9	180.6	175.6	182.2	202.6	294.8	330.8	386.3	465.5	554.4
77.5°	164.3	161.6	158.6	155.0	163.3	157.5	172.8	185.8	207.0	232.4	265.9
80°	139.6	137.3	136.3	134.4	144.3	120.0	122.0	130.0	142.5	156.2	171.8
82.5°	109.4	109.4	113.4	114.3	125.1	86.2	91.2	98.2	104.6	111.9	119.2
85°	72.0	72.5	86.5	92.0	98.7	58.0	68.4	70.7	75.9	80.1	83.2
87.5°	22.5	24.3	52.9	58.5	56.8	32.9	41.9	43.0	46.6	49.5	52.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9
2.5°	493.6	490.4	487.6	487.3	485.3	482.4	483.4	479.0	479.4	477.0	474.3
5°	580.3	578.3	567.9	565.1	557.3	552.4	551.6	541.2	539.9	534.0	527.5
7.5°	705.2	698.5	683.9	677.0	663.8	654.0	649.3	635.6	628.8	613.3	606.3
10°	836.1	827.6	809.7	799.8	787.1	771.3	762.7	742.8	735.0	720.8	703.7
12.5°	957.3	948.8	930.4	922.9	906.0	889.1	879.8	857.3	847.2	824.4	810.9
15°	1069.5	1061.0	1044.9	1037.2	1020.3	1006.6	994.1	971.8	959.9	938.7	921.1
17.5°	1178.3	1169.2	1155.2	1148.3	1132.0	1118.0	1104.5	1083.5	1071.3	1050.1	1034.3
20°	1279.4	1272.7	1262.5	1253.2	1236.8	1224.2	1208.1	1190.0	1172.4	1156.9	1141.8
22.5°	1367.5	1364.8	1354.0	1349.9	1335.9	1324.9	1311.0	1293.1	1280.4	1260.7	1246.8
25°	1443.4	1442.6	1437.5	1436.1	1426.3	1415.9	1412.8	1398.1	1386.4	1369.0	1354.5
27.5°	1508.6	1509.5	1508.1	1511.8	1509.2	1504.6	1504.8	1499.9	1493.1	1478.6	1465.9
30°	1581.2	1577.1	1579.4	1584.6	1586.1	1586.6	1595.2	1598.1	1597.5	1587.9	1581.7
32.5°	1683.8	1674.0	1664.9	1664.1	1669.3	1671.4	1685.9	1693.4	1699.8	1702.2	1703.2
35°	1814.6	1795.0	1776.0	1765.9	1757.1	1759.5	1769.8	1782.0	1796.2	1806.1	1817.8
37.5°	1979.4	1955.4	1921.9	1898.1	1892.2	1879.2	1885.9	1895.5	1909.4	1924.8	1944.9
40°	2179.2	2142.7	2105.0	2073.5	2056.3	2032.5	2032.3	2030.5	2039.0	2053.3	2081.8
42.5°	2371.4	2339.1	2299.2	2265.9	2243.7	2211.8	2205.4	2188.5	2192.4	2204.9	2232.6
45°	2551.4	2524.8	2500.4	2462.1	2443.2	2408.7	2397.8	2377.8	2366.8	2372.4	2400.1
47.5°	2725.9	2708.8	2683.4	2658.4	2644.0	2613.1	2599.1	2584.9	2570.7	2570.2	2599.1
50°	3065.8	3056.7	3026.6	3000.7	3007.8	2969.9	2972.3	2933.9	2951.2	2953.4	3014.2
52.5°	3385.3	3416.9	3439.2	3466.4	3484.0	3487.3	3499.0	3516.3	3537.3	3578.8	3635.3
55°	3568.2	3607.7	3630.9	3651.5	3685.8	3693.1	3712.5	3735.5	3753.9	3800.6	3848.4
57.5°	3785.5	3859.1	3894.9	3927.7	3973.9	3991.5	4023.9	4049.0	4072.9	4128.0	4186.0
60°	3919.4	4009.1	4081.9	4133.9	4191.7	4233.2	4282.2	4321.6	4377.5	4443.6	4530.1
62.5°	3812.9	3944.6	4041.3	4130.6	4209.1	4288.4	4358.6	4432.2	4517.1	4617.2	4751.4
65°	3388.8	3522.8	3688.4	3781.1	3885.0	4007.3	4114.0	4233.2	4349.1	4494.6	4693.1
67.5°	2728.2	2883.9	3069.9	3163.5	3282.9	3419.4	3539.1	3684.8	3820.0	3996.4	4241.8
70°	1966.4	2167.7	2324.2	2421.9	2561.4	2702.0	2817.6	2987.0	3098.9	3279.8	3533.4
72.5°	1245.1	1404.0	1595.7	1718.8	1842.6	1985.1	2103.3	2249.4	2353.8	2518.6	2748.4
75°	669.5	786.5	955.0	1071.8	1204.5	1326.3	1464.7	1562.6	1639.8	1770.1	1956.6
77.5°	313.7	385.0	470.3	560.2	650.1	743.8	835.0	914.3	947.5	1022.1	1132.2
80°	190.5	213.5	238.3	266.1	303.6	334.0	374.1	403.1	405.2	428.8	462.5
82.5°	127.3	135.7	143.3	150.3	159.9	167.4	175.9	186.1	190.2	195.6	206.5
85°	86.7	90.9	92.5	96.9	95.9	98.4	101.8	105.2	107.0	106.7	111.7
87.5°	53.4	55.4	56.5	57.5	56.8	55.8	57.3	59.0	59.6	58.0	58.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9
2.5°	475.0	472.6	470.3	468.7	468.2	454.4	448.5	444.6	436.3	429.5	424.1
5°	523.9	518.9	515.1	510.4	507.8	473.1	460.4	451.6	437.1	428.5	420.7
7.5°	602.6	588.9	580.8	571.8	564.1	501.3	480.4	466.6	446.4	435.0	426.2
10°	692.0	677.8	665.1	651.1	638.9	538.9	508.3	487.1	460.4	445.6	433.9
12.5°	791.8	777.7	761.7	743.8	728.3	586.6	544.1	513.7	477.2	457.6	441.2
15°	909.6	885.1	865.6	844.9	826.7	643.5	585.8	543.8	495.1	468.4	446.6
17.5°	1019.3	993.4	966.9	948.8	927.8	707.6	627.8	574.4	509.8	475.5	447.7
20°	1126.3	1098.0	1075.2	1050.9	1028.9	773.9	672.6	601.3	519.5	475.7	441.2
22.5°	1220.6	1203.0	1177.5	1151.1	1128.8	840.3	714.5	624.1	523.1	469.7	429.8
25°	1327.8	1309.2	1278.1	1255.8	1230.9	907.9	755.8	641.8	521.0	458.6	412.2
27.5°	1442.4	1421.6	1389.8	1366.5	1336.4	978.0	793.6	654.5	513.2	440.5	388.6
30°	1561.7	1542.8	1511.5	1488.0	1457.6	1052.4	835.9	663.0	497.7	415.3	361.2
32.5°	1690.0	1674.3	1643.2	1618.5	1586.1	1133.0	875.2	665.6	474.1	385.6	332.2
35°	1811.7	1800.9	1774.7	1751.7	1718.0	1209.1	916.9	664.3	446.1	352.9	305.8
37.5°	1948.8	1942.4	1929.4	1900.1	1858.9	1312.5	966.9	658.9	411.9	320.5	285.5
40°	2095.0	2095.5	2081.5	2061.6	2023.2	1438.0	1026.5	648.2	374.6	292.0	267.1
42.5°	2249.7	2257.7	2250.9	2236.7	2199.9	1564.4	1097.7	635.3	338.4	264.2	249.0
45°	2426.8	2436.7	2447.1	2426.1	2390.3	1731.2	1191.5	618.5	299.2	241.2	236.5
47.5°	2631.2	2646.8	2656.2	2656.4	2620.7	1938.0	1343.9	608.3	264.5	225.7	230.6
50°	3062.6	3067.6	3089.6	3128.0	3100.5	2416.5	1609.9	602.1	240.9	216.0	226.2
52.5°	3684.3	3738.4	3776.4	3773.9	3736.5	2720.4	1756.6	570.0	227.0	212.5	224.1
55°	3937.3	4005.0	4075.4	4094.1	4065.1	2979.8	1895.2	537.9	220.2	215.0	224.8
57.5°	4274.7	4388.7	4485.3	4525.9	4484.0	3311.6	2077.6	521.0	218.2	222.1	229.9
60°	4668.7	4809.7	4936.7	5009.7	5009.7	3693.1	2266.8	514.0	215.3	232.4	238.1
62.5°	4921.8	5128.9	5320.6	5427.6	5424.5	3958.6	2350.7	490.2	208.8	239.7	249.5
65°	4923.0	5169.1	5413.4	5533.6	5539.8	3926.0	2212.1	432.9	196.9	240.7	260.9
67.5°	4512.5	4774.9	5059.7	5194.1	5225.2	3614.0	1914.9	356.0	177.5	230.4	265.0
70°	3811.2	4067.4	4358.1	4490.2	4545.4	3080.8	1542.3	274.4	152.6	207.6	256.5
72.5°	3002.6	3253.9	3456.2	3552.8	3595.9	2354.8	1123.1	207.2	125.1	174.9	233.4
75°	2125.8	2314.4	2421.9	2443.4	2450.2	1419.5	682.4	154.2	103.1	136.1	197.1
77.5°	1199.8	1280.6	1271.8	1281.5	1201.7	548.0	297.2	110.4	85.0	103.4	152.8
80°	468.4	482.9	453.7	444.6	407.9	203.9	131.1	76.9	67.9	78.3	107.0
82.5°	206.5	213.2	207.0	208.6	199.5	105.2	78.5	55.8	51.9	57.3	71.0
85°	113.8	115.8	115.3	118.7	113.8	41.9	37.3	34.2	36.3	38.9	45.6
87.5°	55.4	56.0	54.1	57.0	55.1	21.3	18.4	19.4	21.3	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-800

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	444.9	444.9	444.9	444.9	444.9	444.9
2.5°	420.2	418.2	418.4	417.9	416.9	416.9
5°	416.6	414.5	414.5	414.0	412.8	413.0
7.5°	420.2	416.9	415.6	413.8	411.9	411.9
10°	424.4	418.4	414.8	411.7	409.4	409.4
12.5°	427.5	418.2	412.2	408.1	405.7	405.7
15°	428.5	416.3	408.1	403.1	401.1	400.8
17.5°	425.1	409.4	399.3	393.5	391.0	390.2
20°	414.8	396.7	384.5	378.0	374.4	373.1
22.5°	399.3	378.5	364.3	357.5	352.9	352.1
25°	377.5	355.2	341.3	334.7	332.2	331.3
27.5°	352.1	331.3	319.5	315.3	313.0	312.7
30°	328.0	310.4	301.6	298.5	295.6	295.1
32.5°	305.5	294.3	290.9	286.5	279.8	279.1
35°	289.4	288.4	286.0	276.2	267.9	265.6
37.5°	279.6	289.2	277.2	257.8	251.9	251.3
40°	273.8	281.1	260.6	253.9	254.4	253.9
42.5°	260.9	268.4	261.2	258.1	260.1	260.6
45°	248.0	256.2	265.0	263.0	267.9	267.9
47.5°	240.7	253.1	264.7	264.7	272.0	274.7
50°	232.4	250.5	260.6	264.2	270.0	267.9
52.5°	231.9	246.1	254.7	261.2	263.7	261.5
55°	232.6	242.5	248.7	255.9	259.1	259.3
57.5°	233.7	240.4	244.6	248.0	257.3	257.3
60°	236.3	238.7	240.9	242.7	254.9	255.2
62.5°	240.4	236.8	236.3	238.1	253.7	252.6
65°	246.9	234.3	230.4	232.1	252.4	249.2
67.5°	255.7	230.4	222.8	224.1	251.3	244.6
70°	263.7	224.1	213.5	212.2	241.5	229.6
72.5°	264.5	216.9	200.5	196.6	209.9	198.5
75°	251.5	212.0	186.3	174.9	173.3	171.8
77.5°	226.7	209.1	169.7	151.8	148.7	149.8
80°	189.7	198.5	149.8	128.5	145.4	143.5
82.5°	141.7	175.1	127.3	113.8	113.4	100.2
85°	78.8	136.6	103.6	85.2	59.3	57.5
87.5°	22.0	75.9	72.5	48.2	32.9	34.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)