

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: P200023

Luminaire Tested: **GPC-AF-01-LED-E1-T2R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200023
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: GPC-AF-01-LED-E1-T2R-7030
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6405.9 lumens
Efficiency: N/A
Efficacy: 108.6 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

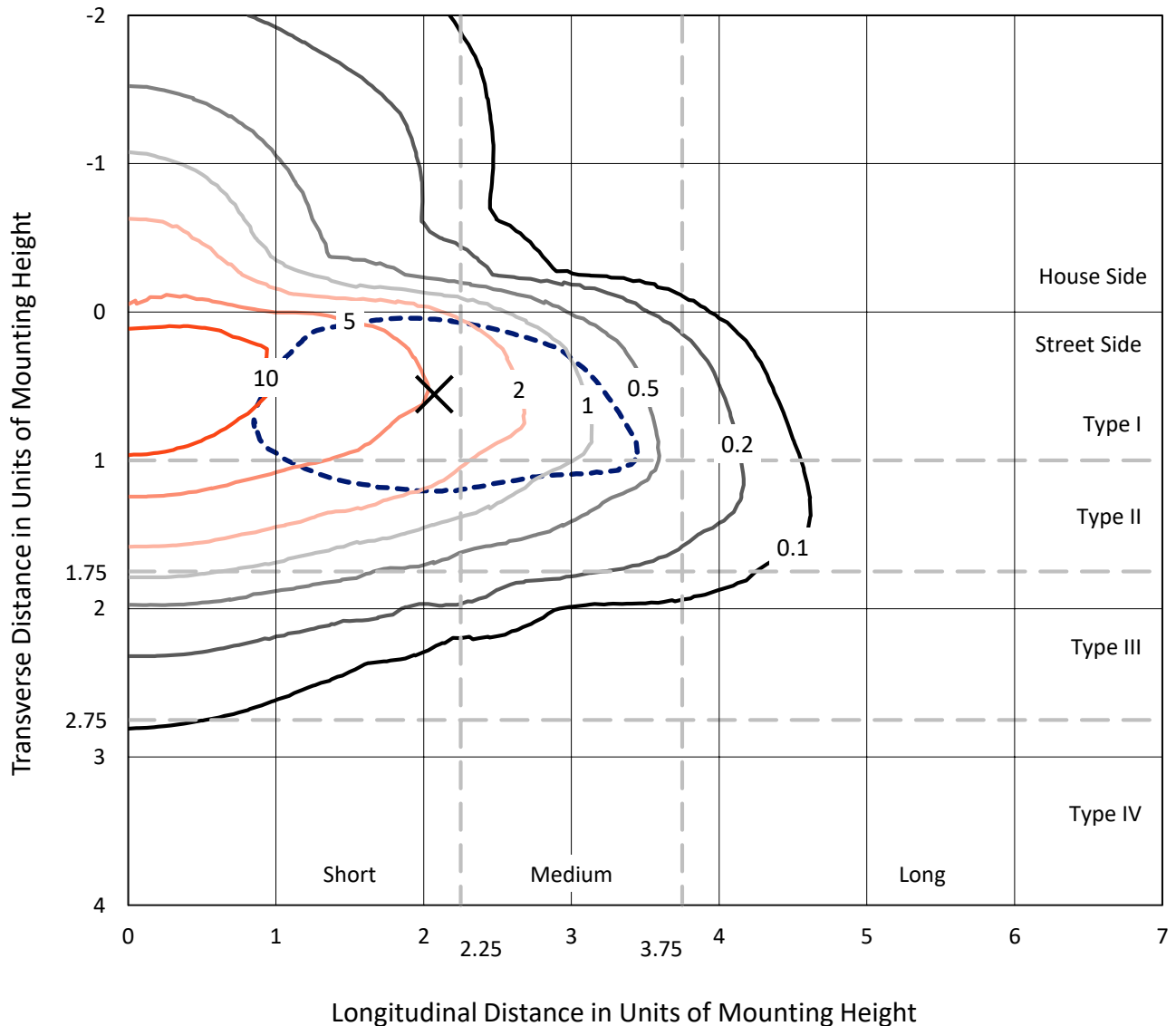
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

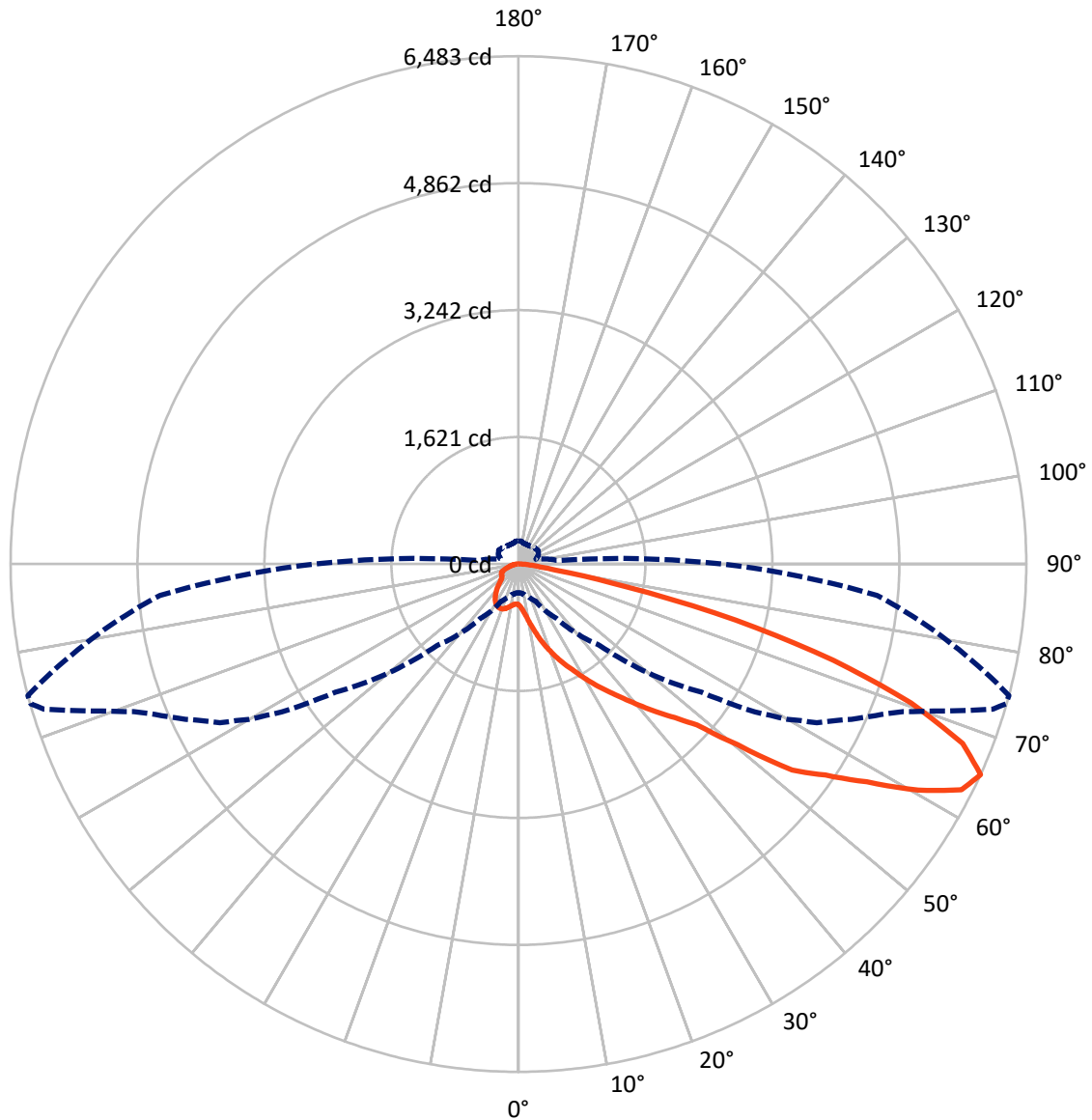
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P200023
CATALOG NUMBER: GPC-AF-01-LED-E1-T2R-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P200023

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	987.6	0.0	987.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5418.2	0.0	5418.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	6405.9	0.0	6405.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	1.0
10°-20°	251.4	3.9
20°-30°	515.8	8.1
30°-40°	867.9	13.5
40°-50°	1199.1	18.7
50°-60°	1496.9	23.4
60°-70°	1347.0	21.0
70°-80°	564.7	8.8
80°-90°	98.6	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°	6405.9	100.0
0°-180°	6405.9	100.0



REPORT NUMBER: P200023

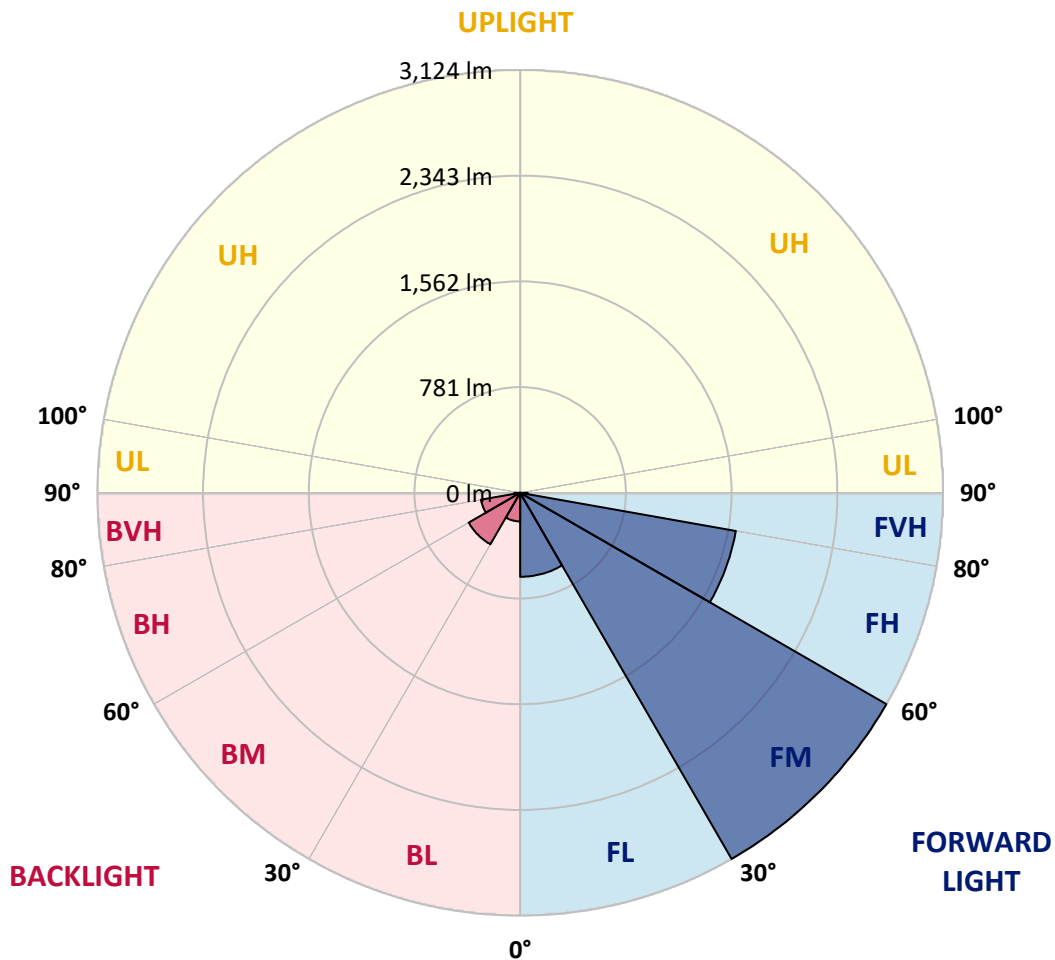
CATALOG NUMBER: GPC-AF-01-LED-E1-T2R-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	620.4	9.7			
FM	(30°-60°)	3124.3	48.8			
FH	(60°-80°)	1618.1	25.3			G1/1800
FVH	(80°-90°)	55.5	0.9			G1/100
BL	(0°-30°)	211.2	3.3	B1/500		
BM	(30°-60°)	439.6	6.9	B1/1000		
BH	(60°-80°)	293.6	4.6	B1/500		G1/500
BVH	(80°-90°)	43.2	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: P200023

CATALOG NUMBER: GPC-AF-01-LED-E1-T2R-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6
2.5°	661.0	653.7	655.5	643.4	628.6	609.1	587.6	587.3	587.6	585.5	577.7
5°	916.5	907.8	904.4	877.2	837.2	780.1	718.3	711.6	708.9	701.9	685.8
7.5°	1103.1	1098.2	1093.0	1072.4	1036.0	972.4	889.3	875.0	861.4	858.0	839.8
10°	1223.3	1222.2	1211.2	1205.7	1183.1	1127.9	1046.9	1033.3	1018.4	1013.3	994.1
12.5°	1318.6	1318.3	1313.2	1314.7	1294.9	1255.0	1185.3	1172.8	1161.9	1146.1	1132.5
15°	1384.5	1384.8	1392.3	1400.8	1397.8	1370.7	1305.3	1299.8	1290.5	1279.5	1263.5
17.5°	1438.4	1439.9	1447.8	1463.3	1479.9	1477.8	1426.0	1421.5	1413.3	1398.4	1389.9
20°	1560.3	1566.0	1550.9	1550.9	1552.7	1560.9	1536.0	1532.4	1520.9	1513.0	1506.3
22.5°	1766.1	1772.8	1738.6	1703.7	1669.5	1644.6	1619.7	1624.2	1616.4	1610.9	1606.9
25°	2033.6	2038.8	1983.3	1924.4	1854.6	1763.8	1702.2	1699.4	1695.1	1691.9	1690.0
27.5°	2285.2	2287.4	2234.9	2148.8	2067.8	1937.1	1785.9	1782.6	1777.4	1771.0	1765.5
30°	2500.5	2500.0	2446.0	2363.9	2277.1	2132.4	1912.9	1902.6	1887.5	1870.2	1856.9
32.5°	2687.0	2686.0	2626.9	2541.7	2450.8	2325.9	2087.0	2065.8	2042.0	2008.4	1988.1
35°	2833.7	2833.1	2777.4	2688.6	2584.2	2508.0	2286.5	2260.3	2230.3	2185.1	2153.9
37.5°	2889.3	2889.3	2858.0	2797.4	2705.2	2653.1	2508.0	2476.6	2444.4	2393.3	2358.1
40°	2856.8	2857.3	2864.0	2852.9	2808.0	2768.0	2714.9	2696.1	2668.4	2622.4	2585.7
42.5°	2748.0	2751.2	2795.5	2849.8	2872.2	2865.9	2898.3	2889.8	2870.5	2835.0	2805.9
45°	2609.9	2620.2	2668.7	2771.3	2890.1	2950.4	3052.0	3052.9	3049.3	3030.2	3007.8
47.5°	2420.4	2435.1	2499.0	2637.5	2848.3	3032.6	3208.2	3216.4	3223.9	3211.5	3201.2
50°	2168.8	2186.1	2281.9	2465.7	2763.0	3117.8	3503.2	3540.2	3574.8	3570.5	3577.4
52.5°	1899.3	1919.5	2036.9	2241.6	2616.6	3137.6	3691.8	3752.2	3812.5	3861.9	3914.3
55°	1656.1	1645.2	1762.6	1978.1	2376.0	3048.7	3861.3	3934.1	4001.4	4062.0	4124.4
57.5°	1326.5	1344.4	1462.0	1675.2	2057.3	2797.9	3978.0	4084.4	4181.2	4281.6	4370.1
60°	969.6	987.4	1115.2	1331.7	1711.3	2417.7	3888.9	4050.1	4205.2	4358.9	4478.9
62.5°	585.5	598.8	711.3	917.4	1319.6	1966.8	3491.7	3703.4	3931.3	4115.0	4299.2
65°	364.5	372.0	413.5	526.9	847.5	1468.5	2852.9	3083.7	3329.1	3562.3	3753.6
67.5°	298.4	301.1	308.6	332.9	465.5	957.5	2123.4	2327.7	2549.3	2774.9	2987.8
70°	268.3	266.5	266.5	268.0	298.4	514.8	1390.3	1523.3	1707.9	1904.1	2098.8
72.5°	242.2	240.5	237.1	232.5	243.4	314.1	718.6	818.9	952.0	1126.4	1312.9
75°	217.8	215.2	211.3	205.6	213.2	237.1	345.0	387.3	452.2	544.8	648.9
77.5°	192.2	189.2	185.5	181.3	190.9	184.3	202.2	217.4	242.2	271.9	311.1
80°	163.5	160.7	159.5	157.4	169.0	140.4	142.8	152.2	166.7	182.8	201.0
82.5°	128.0	128.0	132.8	133.8	146.4	100.9	106.7	114.9	122.5	131.0	139.6
85°	84.2	84.9	101.3	107.6	115.5	68.0	80.1	82.8	88.8	93.6	97.4
87.5°	26.3	28.5	61.8	68.5	66.4	38.5	49.1	50.4	54.6	57.9	60.9
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: P200023
 CATALOG NUMBER: GPC-AF-01-LED-E1-T2R-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6
2.5°	577.7	573.9	570.7	570.4	567.9	564.6	565.8	560.6	560.9	558.2	555.1
5°	679.1	676.8	664.7	661.2	652.2	646.4	645.5	633.3	631.8	624.9	617.4
7.5°	825.4	817.5	800.5	792.2	776.9	765.3	759.8	743.7	735.9	717.8	709.5
10°	978.4	968.5	947.5	936.1	921.2	902.6	892.6	869.2	860.2	843.5	823.5
12.5°	1120.4	1110.3	1088.8	1080.0	1060.3	1040.5	1029.7	1003.3	991.5	964.8	949.0
15°	1251.7	1241.6	1222.8	1213.8	1193.9	1178.0	1163.4	1137.3	1123.4	1098.5	1077.9
17.5°	1379.0	1368.4	1352.0	1343.8	1324.7	1308.3	1292.5	1268.0	1253.8	1228.8	1210.4
20°	1497.2	1489.3	1477.5	1466.6	1447.4	1432.6	1413.9	1392.6	1372.0	1353.8	1336.2
22.5°	1600.3	1597.3	1584.6	1579.7	1563.3	1550.6	1534.2	1513.2	1498.4	1475.4	1459.0
25°	1689.1	1688.3	1682.1	1680.6	1669.2	1657.0	1653.4	1636.0	1622.4	1602.2	1585.2
27.5°	1765.5	1766.5	1765.0	1769.2	1766.1	1760.7	1761.0	1755.2	1747.4	1730.3	1715.5
30°	1850.5	1845.6	1848.3	1854.3	1856.2	1856.9	1866.8	1870.2	1869.5	1858.3	1851.1
32.5°	1970.5	1959.0	1948.4	1947.4	1953.5	1956.0	1972.9	1981.8	1989.3	1992.1	1993.2
35°	2123.7	2100.6	2078.4	2066.6	2056.4	2059.1	2071.2	2085.4	2102.1	2113.6	2127.3
37.5°	2316.6	2288.3	2249.2	2221.2	2214.2	2199.2	2207.0	2218.2	2234.6	2252.5	2276.2
40°	2550.2	2507.5	2463.6	2426.5	2406.6	2378.6	2378.3	2376.2	2386.2	2402.8	2436.3
42.5°	2775.1	2737.3	2690.6	2651.8	2625.7	2588.5	2580.8	2561.1	2565.7	2580.2	2612.7
45°	2985.9	2954.7	2926.2	2881.3	2859.2	2818.9	2806.1	2782.9	2769.7	2776.4	2808.8
47.5°	3190.1	3169.9	3140.2	3111.1	3094.2	3058.0	3041.8	3025.1	3008.4	3007.8	3041.8
50°	3587.7	3577.1	3541.9	3511.7	3519.9	3475.6	3478.4	3433.5	3453.8	3456.2	3527.4
52.5°	3961.6	3998.7	4024.7	4056.6	4077.1	4081.2	4094.7	4115.0	4139.7	4188.1	4254.2
55°	4175.7	4222.1	4249.1	4273.3	4313.3	4321.9	4344.5	4371.6	4393.1	4447.7	4503.7
57.5°	4430.1	4516.2	4558.1	4596.5	4650.5	4671.2	4709.1	4738.5	4766.3	4830.9	4898.8
60°	4586.8	4691.8	4777.0	4837.9	4905.5	4954.1	5011.2	5057.4	5122.9	5200.2	5301.5
62.5°	4462.2	4616.3	4729.4	4833.9	4925.9	5018.6	5100.8	5186.9	5286.3	5403.4	5560.4
65°	3965.9	4122.7	4316.4	4424.9	4546.5	4689.6	4814.5	4954.1	5089.6	5260.0	5492.3
67.5°	3192.8	3374.9	3592.7	3702.1	3841.9	4001.6	4141.8	4312.1	4470.5	4677.0	4964.0
70°	2301.3	2536.9	2720.0	2834.3	2997.4	3162.1	3297.3	3495.6	3626.7	3838.3	4135.1
72.5°	1457.2	1643.0	1867.5	2011.5	2156.3	2323.2	2461.4	2632.4	2754.7	2947.5	3216.4
75°	783.5	920.5	1117.6	1254.3	1409.6	1552.1	1714.1	1828.6	1918.9	2071.4	2289.7
77.5°	367.2	450.5	550.3	655.5	760.8	870.5	977.3	1069.9	1108.8	1196.2	1325.0
80°	222.9	249.8	278.9	311.4	355.3	390.8	437.8	471.8	474.1	501.8	541.3
82.5°	148.9	158.9	167.7	175.9	187.1	195.9	205.9	217.8	222.6	228.9	241.7
85°	101.6	106.4	108.2	113.4	112.2	115.3	119.2	123.1	125.2	124.9	130.7
87.5°	62.5	64.9	66.1	67.3	66.4	65.2	66.9	69.2	69.7	68.0	68.5
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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CATALOG NUMBER: GPC-AF-01-LED-E1-T2R-7030

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6
2.5°	555.8	553.1	550.3	548.5	547.9	531.8	524.9	520.3	510.6	502.7	496.4
5°	613.1	607.3	602.8	597.3	594.3	553.6	538.7	528.5	511.6	501.5	492.4
7.5°	705.3	689.2	679.8	669.2	660.0	586.7	562.1	546.1	522.4	509.0	498.8
10°	809.8	793.2	778.4	762.0	747.7	630.7	594.9	570.0	538.7	521.5	507.8
12.5°	926.6	910.2	891.4	870.5	852.3	686.4	636.8	601.3	558.6	535.5	516.4
15°	1064.5	1035.8	1013.1	988.8	967.5	753.2	685.5	636.4	579.4	548.2	522.7
17.5°	1192.8	1162.5	1131.6	1110.3	1085.8	828.0	734.7	672.2	596.7	556.3	523.9
20°	1318.0	1285.0	1258.3	1229.8	1204.0	905.6	787.1	703.7	607.9	556.6	516.4
22.5°	1428.3	1407.8	1378.1	1347.1	1321.1	983.4	836.3	730.4	612.2	549.7	503.0
25°	1553.8	1532.1	1495.6	1469.6	1440.5	1062.4	884.5	751.0	609.7	536.7	482.4
27.5°	1687.9	1663.7	1626.5	1599.1	1563.9	1144.6	928.7	765.9	600.6	515.4	454.8
30°	1827.7	1805.6	1768.9	1741.3	1705.9	1231.6	978.1	775.8	582.5	485.9	422.7
32.5°	1977.8	1959.3	1923.0	1894.1	1856.2	1325.9	1024.2	778.9	554.8	451.1	388.8
35°	2120.2	2107.6	2076.9	2049.9	2010.6	1415.0	1073.0	777.4	522.1	413.0	357.9
37.5°	2280.7	2273.1	2258.0	2223.7	2175.5	1536.0	1131.6	771.1	482.1	375.1	334.2
40°	2451.7	2452.4	2435.9	2412.6	2367.7	1682.8	1201.3	758.6	438.4	341.8	312.6
42.5°	2632.7	2642.1	2634.2	2617.6	2574.4	1830.7	1284.7	743.4	395.9	309.3	291.4
45°	2840.0	2851.6	2863.8	2839.2	2797.4	2026.0	1394.4	723.8	350.1	282.3	276.9
47.5°	3079.4	3097.5	3108.4	3108.8	3066.9	2268.0	1572.7	712.0	309.5	264.1	269.9
50°	3584.1	3589.9	3615.7	3660.6	3628.4	2827.9	1884.0	704.6	282.0	252.8	264.7
52.5°	4311.6	4375.0	4419.5	4416.5	4372.8	3183.6	2055.7	667.0	265.6	248.7	262.2
55°	4607.8	4686.9	4769.3	4791.2	4757.2	3487.1	2218.0	629.5	257.8	251.7	263.2
57.5°	5002.6	5135.9	5249.1	5296.7	5247.5	3875.5	2431.3	609.7	255.3	259.8	268.9
60°	5463.7	5628.7	5777.2	5862.8	5862.8	4321.9	2652.7	601.6	252.0	271.9	278.6
62.5°	5759.9	6002.1	6226.5	6351.8	6348.2	4632.6	2750.9	573.6	244.4	280.5	291.9
65°	5761.1	6049.2	6335.1	6475.8	6483.1	4594.5	2588.8	506.6	230.4	281.7	305.4
67.5°	5280.9	5588.1	5921.2	6078.6	6115.0	4229.4	2241.0	416.6	207.7	269.6	310.2
70°	4460.1	4760.0	5100.2	5254.9	5319.4	3605.3	1805.0	321.1	178.6	242.9	300.1
72.5°	3513.8	3807.9	4044.8	4157.9	4208.1	2755.8	1314.4	242.5	146.4	204.7	273.1
75°	2487.9	2708.5	2834.3	2859.6	2867.4	1661.3	798.6	180.4	120.6	159.2	230.7
77.5°	1404.1	1498.7	1488.4	1499.7	1406.2	641.3	347.8	129.2	99.4	121.0	178.8
80°	548.2	565.2	530.9	520.3	477.3	238.6	153.4	90.0	79.4	91.6	125.2
82.5°	241.7	249.5	242.2	244.0	233.5	123.1	91.9	65.2	60.6	66.9	83.0
85°	133.1	135.5	134.9	138.9	133.1	49.1	43.7	40.0	42.5	45.5	53.3
87.5°	64.9	65.4	63.4	66.7	64.6	24.9	21.6	22.7	24.9	25.4	25.4
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: P200023

CATALOG NUMBER: GPC-AF-01-LED-E1-T2R-7030

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	520.6	520.6	520.6	520.6	520.6	520.6
2.5°	491.7	489.4	489.7	489.1	487.9	487.9
5°	487.6	485.1	485.1	484.6	483.0	483.3
7.5°	491.7	487.9	486.3	484.2	482.1	482.1
10°	496.7	489.7	485.4	481.9	479.1	479.1
12.5°	500.3	489.4	482.4	477.6	474.8	474.8
15°	501.5	487.3	477.6	471.8	469.4	469.0
17.5°	497.5	479.1	467.2	460.5	457.6	456.6
20°	485.4	464.3	449.9	442.4	438.1	436.6
22.5°	467.2	442.9	426.3	418.5	413.0	412.0
25°	441.7	415.7	399.4	391.7	388.8	387.8
27.5°	412.0	387.8	373.8	369.0	366.2	366.0
30°	383.8	363.3	352.9	349.3	346.0	345.4
32.5°	357.5	344.3	340.5	335.3	327.4	326.5
35°	338.7	337.5	334.8	323.2	313.5	310.8
37.5°	327.1	338.3	324.4	301.7	294.7	294.1
40°	320.4	329.0	305.1	297.1	297.7	297.1
42.5°	305.4	314.1	305.6	302.0	304.4	305.1
45°	290.2	299.9	310.2	307.8	313.5	313.5
47.5°	281.7	296.2	309.9	309.9	318.4	321.4
50°	271.9	293.3	305.1	309.3	316.0	313.5
52.5°	271.4	288.0	298.1	305.6	308.6	305.9
55°	272.3	283.7	291.0	299.6	303.2	303.5
57.5°	273.4	281.4	286.3	290.2	301.1	301.1
60°	276.5	279.2	282.0	284.1	298.4	298.6
62.5°	281.4	277.1	276.5	278.6	296.8	295.6
65°	289.0	274.1	269.6	271.6	295.3	291.7
67.5°	299.3	269.6	260.8	262.2	294.1	286.3
70°	308.6	262.2	249.8	248.3	282.6	268.7
72.5°	309.5	253.8	234.7	230.1	245.7	232.2
75°	294.5	248.0	218.0	204.7	202.9	201.0
77.5°	265.3	244.6	198.7	177.6	174.0	175.3
80°	221.9	232.2	175.3	150.3	170.1	167.9
82.5°	165.8	205.0	148.9	133.1	132.8	117.4
85°	92.3	159.7	121.3	99.8	69.4	67.3
87.5°	25.7	88.8	84.9	56.4	38.5	40.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)