

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: P200021

Luminaire Tested: **GPC-AF-01-LED-E1-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200021
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-7030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 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: 5175.6 lumens
Efficiency: N/A
Efficacy: 117.6 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

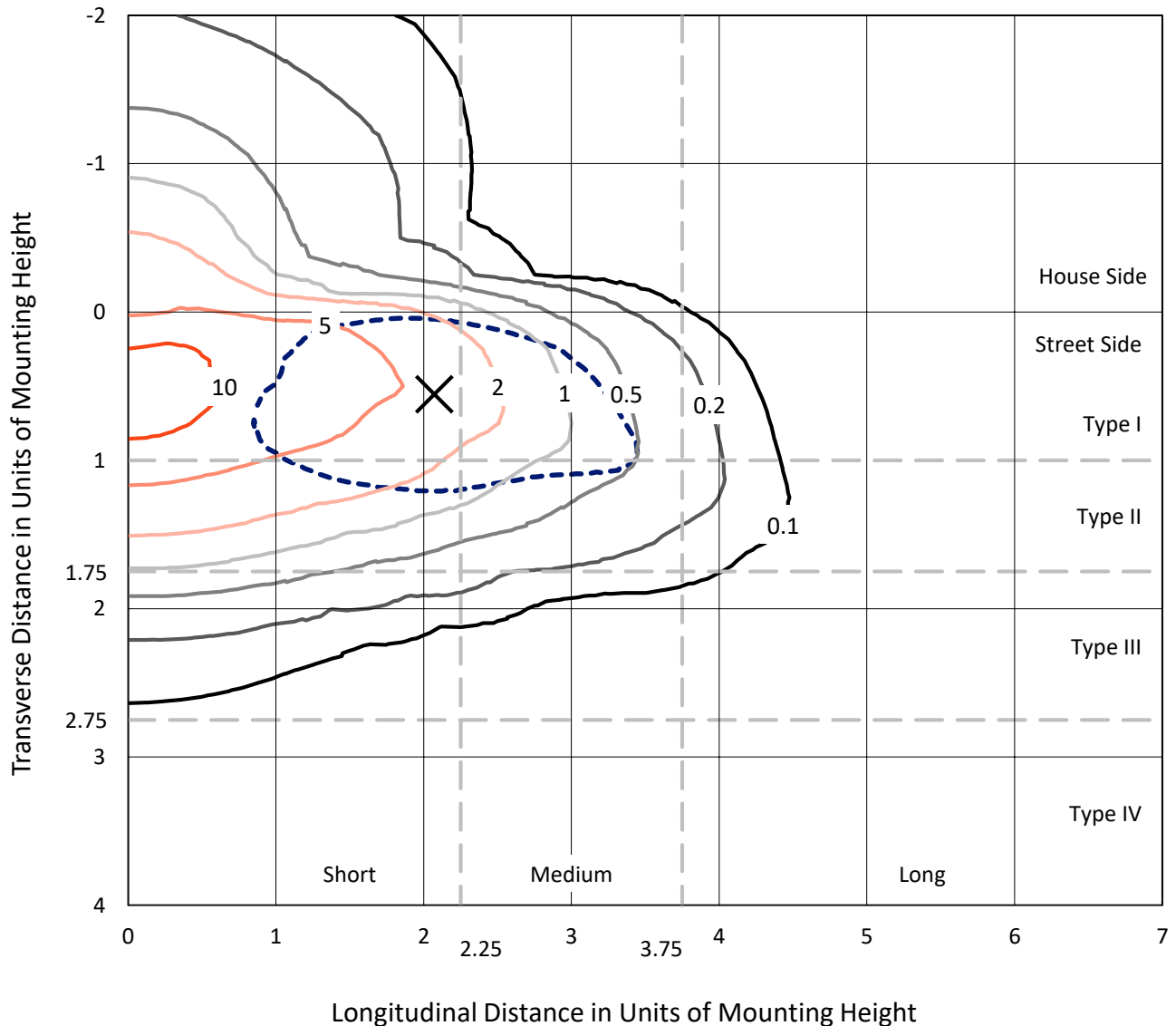
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

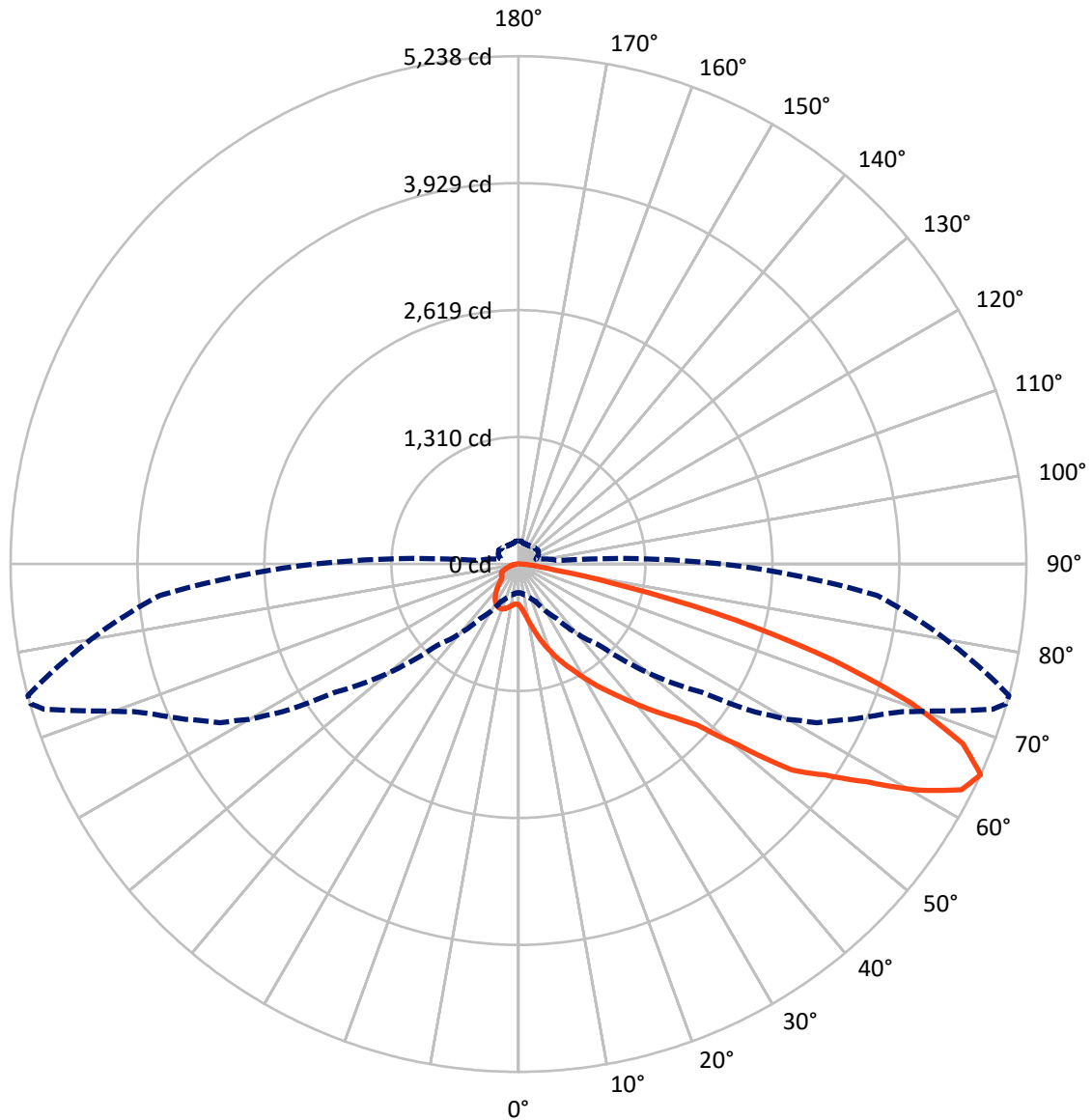
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 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	798.0	0.0	798.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4377.6	0.0	4377.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	5175.6	0.0	5175.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.0
10°-20°	203.1	3.9
20°-30°	416.8	8.1
30°-40°	701.2	13.5
40°-50°	968.8	18.7
50°-60°	1209.4	23.4
60°-70°	1088.3	21.0
70°-80°	456.2	8.8
80°-90°	79.7	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°	5175.6	100.0
0°-180°	5175.6	100.0

Coefficient of Utilization



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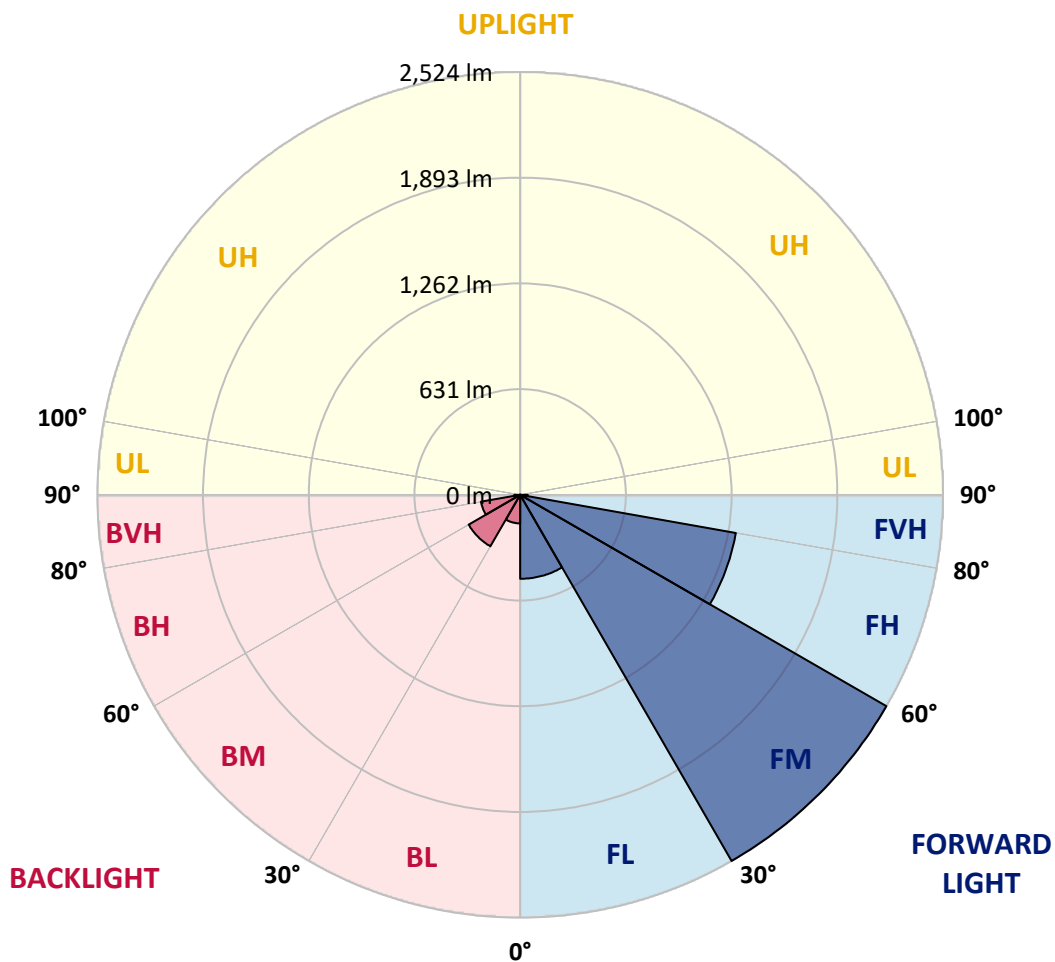
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.2	9.7			
FM	(30°-60°)	2524.3	48.8			
FH	(60°-80°)	1307.3	25.3			G1/1800
FVH	(80°-90°)	44.8	0.9			G1/100
BL	(0°-30°)	170.7	3.3	B1/500		
BM	(30°-60°)	355.2	6.9	B1/1000		
BH	(60°-80°)	237.2	4.6	B1/500		G1/500
BVH	(80°-90°)	34.9	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°	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6
2.5°	534.1	528.2	529.6	519.8	507.8	492.1	474.7	474.5	474.7	473.1	466.6
5°	740.6	733.4	730.7	708.6	676.4	630.3	580.3	574.9	572.7	567.2	554.2
7.5°	891.2	887.3	883.2	866.4	837.0	785.6	718.5	707.0	696.0	693.2	678.6
10°	988.5	987.4	978.6	974.3	955.9	911.3	845.8	834.8	822.8	818.7	803.3
12.5°	1065.4	1065.2	1061.0	1062.2	1046.2	1013.9	957.5	947.6	938.7	926.0	914.9
15°	1118.6	1118.9	1125.0	1131.8	1129.3	1107.6	1054.6	1050.2	1042.6	1033.8	1020.8
17.5°	1162.2	1163.4	1169.7	1182.1	1195.8	1193.9	1152.1	1148.5	1141.9	1129.8	1122.9
20°	1260.7	1265.3	1252.9	1252.9	1254.6	1261.1	1241.0	1238.1	1228.7	1222.4	1217.0
22.5°	1426.9	1432.4	1404.6	1376.4	1348.8	1328.7	1308.6	1312.3	1305.9	1301.5	1298.3
25°	1643.0	1647.2	1602.4	1554.9	1498.5	1425.0	1375.2	1373.1	1369.7	1367.0	1365.5
27.5°	1846.4	1848.1	1805.7	1736.1	1670.7	1565.1	1442.9	1440.1	1436.0	1430.9	1426.5
30°	2020.3	2019.7	1976.2	1909.9	1839.7	1722.9	1545.6	1537.2	1524.9	1510.9	1500.2
32.5°	2171.0	2170.2	2122.5	2053.6	1980.1	1879.2	1686.2	1669.1	1650.0	1622.7	1606.3
35°	2289.5	2289.0	2243.9	2172.2	2088.0	2026.4	1847.3	1826.3	1802.0	1765.5	1740.3
37.5°	2334.4	2334.4	2309.0	2260.1	2185.6	2143.5	2026.4	2001.0	1975.0	1933.6	1905.2
40°	2308.1	2308.6	2314.0	2305.0	2268.7	2236.3	2193.5	2178.3	2156.0	2118.7	2089.1
42.5°	2220.1	2222.9	2258.6	2302.5	2320.6	2315.5	2341.7	2334.9	2319.1	2290.5	2267.0
45°	2108.7	2117.0	2156.2	2239.0	2335.1	2383.8	2465.9	2466.6	2463.7	2448.3	2430.2
47.5°	1955.6	1967.3	2019.1	2131.0	2301.2	2450.2	2592.0	2598.6	2604.7	2594.8	2586.3
50°	1752.3	1766.2	1843.6	1992.2	2232.3	2519.1	2830.4	2860.3	2888.3	2884.8	2890.5
52.5°	1534.5	1550.9	1645.8	1811.1	2114.0	2535.0	2982.8	3031.5	3080.2	3120.2	3162.6
55°	1338.0	1329.2	1423.9	1598.3	1919.5	2463.2	3119.7	3178.5	3232.9	3281.9	3332.4
57.5°	1071.8	1086.2	1181.2	1353.5	1662.2	2260.6	3214.1	3300.0	3378.2	3459.2	3530.8
60°	783.4	797.9	901.1	1075.8	1382.6	1953.4	3142.0	3272.4	3397.5	3521.8	3618.7
62.5°	473.1	483.8	574.7	741.4	1066.2	1589.1	2821.1	2992.1	3176.2	3324.8	3473.5
65°	294.5	300.6	334.2	425.8	684.7	1186.4	2305.0	2491.3	2689.8	2878.2	3032.7
67.5°	241.0	243.2	249.3	269.0	376.1	773.7	1715.6	1880.7	2059.7	2242.0	2414.0
70°	216.8	215.3	215.3	216.6	241.0	415.9	1123.1	1230.7	1380.0	1538.5	1695.7
72.5°	195.7	194.3	191.5	187.9	196.6	253.8	580.6	661.7	769.1	910.0	1060.7
75°	175.9	173.9	170.8	166.1	172.2	191.5	278.8	312.8	365.3	440.2	524.2
77.5°	155.3	152.9	149.9	146.5	154.4	148.9	163.4	175.7	195.7	219.7	251.3
80°	132.1	129.8	128.8	127.2	136.5	113.4	115.4	123.0	134.7	147.7	162.5
82.5°	103.4	103.4	107.3	108.0	118.3	81.6	86.2	92.9	99.0	105.9	112.6
85°	68.1	68.7	81.8	87.0	93.3	54.8	64.7	66.8	71.8	75.7	78.6
87.5°	21.3	23.1	49.9	55.4	53.6	31.1	39.7	40.7	44.1	46.8	49.2
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°	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6
2.5°	466.6	463.7	461.1	460.7	458.8	456.1	457.1	453.0	453.2	451.0	448.5
5°	548.7	546.8	537.0	534.3	526.9	522.3	521.5	511.8	510.6	504.9	498.8
7.5°	666.8	660.5	646.7	640.1	627.5	618.3	613.9	600.9	594.6	579.8	573.3
10°	790.5	782.4	765.6	756.2	744.3	729.3	721.2	702.3	695.0	681.6	665.4
12.5°	905.2	897.1	879.6	872.6	856.7	840.7	831.9	810.6	801.1	779.4	766.8
15°	1011.2	1003.1	987.9	980.6	964.6	951.7	939.9	918.9	907.6	887.5	870.9
17.5°	1114.1	1105.6	1092.4	1085.7	1070.3	1057.1	1044.3	1024.6	1013.0	992.8	978.0
20°	1209.7	1203.3	1193.7	1184.9	1169.5	1157.5	1142.3	1125.2	1108.6	1093.8	1079.6
22.5°	1293.0	1290.5	1280.2	1276.2	1263.0	1252.7	1239.5	1222.6	1210.7	1192.0	1178.8
25°	1364.7	1364.0	1359.0	1357.9	1348.6	1338.8	1335.8	1321.8	1310.9	1294.4	1280.7
27.5°	1426.5	1427.3	1426.0	1429.4	1426.9	1422.5	1422.8	1418.1	1411.7	1398.1	1386.1
30°	1495.1	1491.2	1493.3	1498.3	1499.7	1500.2	1508.4	1510.9	1510.5	1501.4	1495.5
32.5°	1592.1	1582.7	1574.2	1573.5	1578.4	1580.3	1594.0	1601.0	1607.3	1609.5	1610.5
35°	1715.8	1697.2	1679.4	1669.7	1661.4	1663.6	1673.5	1684.9	1698.4	1707.7	1718.7
37.5°	1871.6	1848.7	1817.2	1794.7	1789.0	1776.8	1783.1	1792.2	1805.4	1819.9	1839.1
40°	2060.4	2025.8	1990.3	1960.5	1944.4	1921.8	1921.6	1919.8	1927.9	1941.4	1968.3
42.5°	2242.2	2211.6	2173.9	2142.6	2121.5	2091.3	2085.2	2069.3	2072.9	2084.6	2110.9
45°	2412.5	2387.2	2364.3	2328.0	2310.1	2277.5	2267.2	2248.3	2237.8	2243.2	2269.5
47.5°	2577.3	2561.1	2537.2	2513.6	2500.0	2470.8	2457.6	2444.1	2430.6	2430.2	2457.6
50°	2898.7	2890.2	2861.7	2837.3	2843.9	2808.1	2810.3	2774.1	2790.5	2792.4	2850.0
52.5°	3200.9	3230.7	3251.8	3277.4	3294.1	3297.3	3308.4	3324.8	3344.7	3383.8	3437.2
55°	3373.7	3411.3	3433.0	3452.6	3485.0	3491.8	3510.2	3532.1	3549.4	3593.5	3638.8
57.5°	3579.4	3648.8	3682.7	3713.8	3757.4	3774.1	3804.6	3828.5	3851.0	3903.2	3958.0
60°	3706.0	3790.7	3859.6	3908.7	3963.4	4002.6	4048.9	4086.2	4139.1	4201.6	4283.3
62.5°	3605.2	3729.7	3821.2	3905.6	3979.8	4054.8	4121.2	4190.7	4271.1	4365.7	4492.5
65°	3204.2	3330.9	3487.4	3575.1	3673.4	3789.0	3889.9	4002.6	4112.1	4249.7	4437.4
67.5°	2579.6	2726.8	2902.7	2991.1	3104.0	3233.1	3346.3	3484.0	3611.9	3778.7	4010.7
70°	1859.4	2049.7	2197.6	2290.0	2421.8	2554.8	2664.1	2824.3	2930.2	3101.1	3340.9
72.5°	1177.4	1327.5	1508.8	1625.1	1742.2	1877.0	1988.7	2126.8	2225.6	2381.5	2598.6
75°	633.0	743.7	902.9	1013.5	1138.9	1254.0	1384.9	1477.4	1550.4	1673.7	1850.0
77.5°	296.6	364.1	444.5	529.6	614.6	703.3	789.5	864.5	895.8	966.4	1070.5
80°	180.1	201.9	225.4	251.7	287.2	315.8	353.8	381.2	383.2	405.5	437.2
82.5°	120.3	128.4	135.5	142.0	151.1	158.2	166.3	175.9	179.8	184.9	195.2
85°	82.1	86.0	87.4	91.7	90.6	93.1	96.2	99.4	101.2	100.9	105.6
87.5°	50.5	52.5	53.4	54.4	53.6	52.7	54.2	55.8	56.4	54.8	55.4
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°	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6	420.6
2.5°	449.0	446.9	444.5	443.1	442.7	429.7	424.0	420.3	412.6	406.1	401.0
5°	495.4	490.7	487.0	482.6	480.2	447.3	435.3	426.9	413.2	405.2	397.8
7.5°	569.8	556.7	549.2	540.7	533.3	474.0	454.2	441.2	422.1	411.4	402.9
10°	654.4	640.8	628.9	615.5	604.1	509.5	480.6	460.5	435.3	421.3	410.4
12.5°	748.7	735.5	720.2	703.3	688.7	554.6	514.4	485.7	451.2	432.6	417.2
15°	860.1	836.8	818.5	798.9	781.7	608.5	553.8	514.2	468.1	442.9	422.3
17.5°	963.6	939.2	914.3	897.1	877.3	669.0	593.6	543.1	482.1	449.5	423.3
20°	1064.8	1038.2	1016.6	993.6	972.7	731.7	636.0	568.5	491.1	449.8	417.2
22.5°	1154.1	1137.4	1113.4	1088.4	1067.4	794.5	675.7	590.1	494.6	444.1	406.5
25°	1255.5	1237.8	1208.4	1187.4	1163.8	858.3	714.5	606.8	492.6	433.6	389.7
27.5°	1363.8	1344.2	1314.1	1292.0	1263.6	924.8	750.4	618.9	485.3	416.5	367.4
30°	1476.6	1458.8	1429.2	1406.8	1378.2	995.1	790.3	626.9	470.6	392.7	341.6
32.5°	1597.9	1583.0	1553.6	1530.4	1499.7	1071.3	827.5	629.4	448.3	364.5	314.0
35°	1713.0	1702.8	1678.1	1656.3	1624.3	1143.3	867.0	628.1	421.8	333.7	289.1
37.5°	1842.6	1836.5	1824.3	1796.7	1757.7	1241.0	914.3	623.0	389.5	303.0	270.0
40°	1980.9	1981.3	1968.1	1949.3	1913.0	1359.6	970.6	613.0	354.2	276.1	252.6
42.5°	2127.1	2134.7	2128.4	2114.8	2080.1	1479.2	1038.0	600.7	319.9	249.8	235.5
45°	2294.7	2304.0	2313.8	2293.9	2260.1	1636.9	1126.7	584.7	283.0	228.1	223.7
47.5°	2488.0	2502.6	2511.5	2511.7	2477.9	1832.4	1270.6	575.1	250.1	213.4	218.0
50°	2895.8	2900.5	2921.3	2957.5	2931.5	2284.8	1522.3	569.4	227.8	204.4	213.8
52.5°	3483.5	3534.7	3570.7	3568.3	3533.0	2572.2	1661.0	538.9	214.5	200.9	211.9
55°	3722.8	3786.8	3853.5	3871.0	3843.6	2817.5	1792.0	508.6	208.2	203.3	212.6
57.5°	4041.8	4149.5	4241.0	4279.4	4239.7	3131.3	1964.5	492.6	206.3	209.9	217.3
60°	4414.4	4547.7	4667.7	4736.8	4736.8	3491.8	2143.2	485.9	203.5	219.7	225.2
62.5°	4653.8	4849.5	5030.8	5131.9	5128.9	3742.9	2222.7	463.5	197.4	226.6	235.9
65°	4654.8	4887.5	5118.5	5232.1	5238.0	3712.1	2091.5	409.4	186.2	227.6	246.7
67.5°	4266.7	4514.8	4784.0	4911.2	4940.6	3417.1	1810.7	336.6	167.8	217.8	250.6
70°	3603.6	3845.8	4120.7	4245.6	4297.8	2913.0	1458.3	259.4	144.3	196.2	242.5
72.5°	2839.0	3076.6	3268.0	3359.2	3399.9	2226.6	1062.0	196.0	118.3	165.3	220.7
75°	2010.1	2188.4	2290.0	2310.3	2316.8	1342.2	645.2	145.8	97.5	128.6	186.4
77.5°	1134.4	1210.9	1202.6	1211.6	1136.2	518.1	281.1	104.4	80.3	97.8	144.5
80°	442.9	456.6	429.0	420.3	385.5	192.9	124.0	72.7	64.1	74.0	101.2
82.5°	195.2	201.6	195.7	197.2	188.6	99.4	74.2	52.7	48.9	54.2	67.0
85°	107.5	109.5	109.0	112.2	107.5	39.7	35.3	32.3	34.3	36.7	43.1
87.5°	52.5	52.9	51.3	53.9	52.2	20.1	17.4	18.3	20.1	20.5	20.5
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-7030-800

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	420.6	420.6	420.6	420.6	420.6	420.6
2.5°	397.3	395.4	395.6	395.2	394.2	394.2
5°	393.9	391.9	391.9	391.4	390.3	390.5
7.5°	397.3	394.2	392.9	391.2	389.5	389.5
10°	401.3	395.6	392.2	389.3	387.1	387.1
12.5°	404.2	395.4	389.7	385.8	383.6	383.6
15°	405.2	393.7	385.8	381.2	379.2	379.0
17.5°	402.0	387.1	377.5	372.1	369.7	369.0
20°	392.2	375.1	363.5	357.4	354.0	352.8
22.5°	377.5	358.0	344.3	338.0	333.7	332.9
25°	356.9	335.9	322.7	316.6	314.0	313.3
27.5°	332.9	313.3	302.1	298.2	295.9	295.6
30°	310.2	293.5	285.1	282.2	279.4	279.0
32.5°	288.8	278.3	275.2	271.0	264.5	263.9
35°	273.5	272.6	270.4	261.1	253.3	251.1
37.5°	264.3	273.3	262.1	243.7	238.0	237.6
40°	259.0	265.8	246.5	240.1	240.6	240.1
42.5°	246.7	253.8	246.9	243.9	246.0	246.5
45°	234.5	242.2	250.6	248.7	253.3	253.3
47.5°	227.6	239.4	250.3	250.3	257.2	259.7
50°	219.7	236.9	246.5	249.8	255.2	253.3
52.5°	219.3	232.7	240.8	246.9	249.3	247.2
55°	219.9	229.3	235.1	242.0	245.0	245.2
57.5°	220.9	227.4	231.3	234.5	243.2	243.2
60°	223.4	225.6	227.8	229.6	241.0	241.3
62.5°	227.4	223.9	223.4	225.2	239.9	238.8
65°	233.5	221.5	217.8	219.5	238.6	235.7
67.5°	241.8	217.8	210.7	211.9	237.6	231.3
70°	249.3	211.9	201.9	200.6	228.4	217.1
72.5°	250.1	205.1	189.6	186.0	198.5	187.6
75°	237.8	200.4	176.1	165.3	163.9	162.5
77.5°	214.3	197.6	160.5	143.5	140.6	141.6
80°	179.3	187.6	141.6	121.5	137.4	135.7
82.5°	134.0	165.6	120.3	107.5	107.3	94.8
85°	74.6	129.2	98.0	80.7	56.0	54.4
87.5°	20.9	71.8	68.7	45.6	31.1	32.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)