

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: **GPC-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: GPC-AF-01-LED-E1-T2R-7030-600  
Description: GALLEON PEDESTRIAN 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: 4220.7 lumens  
Efficiency: N/A  
Efficacy: 124.1 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

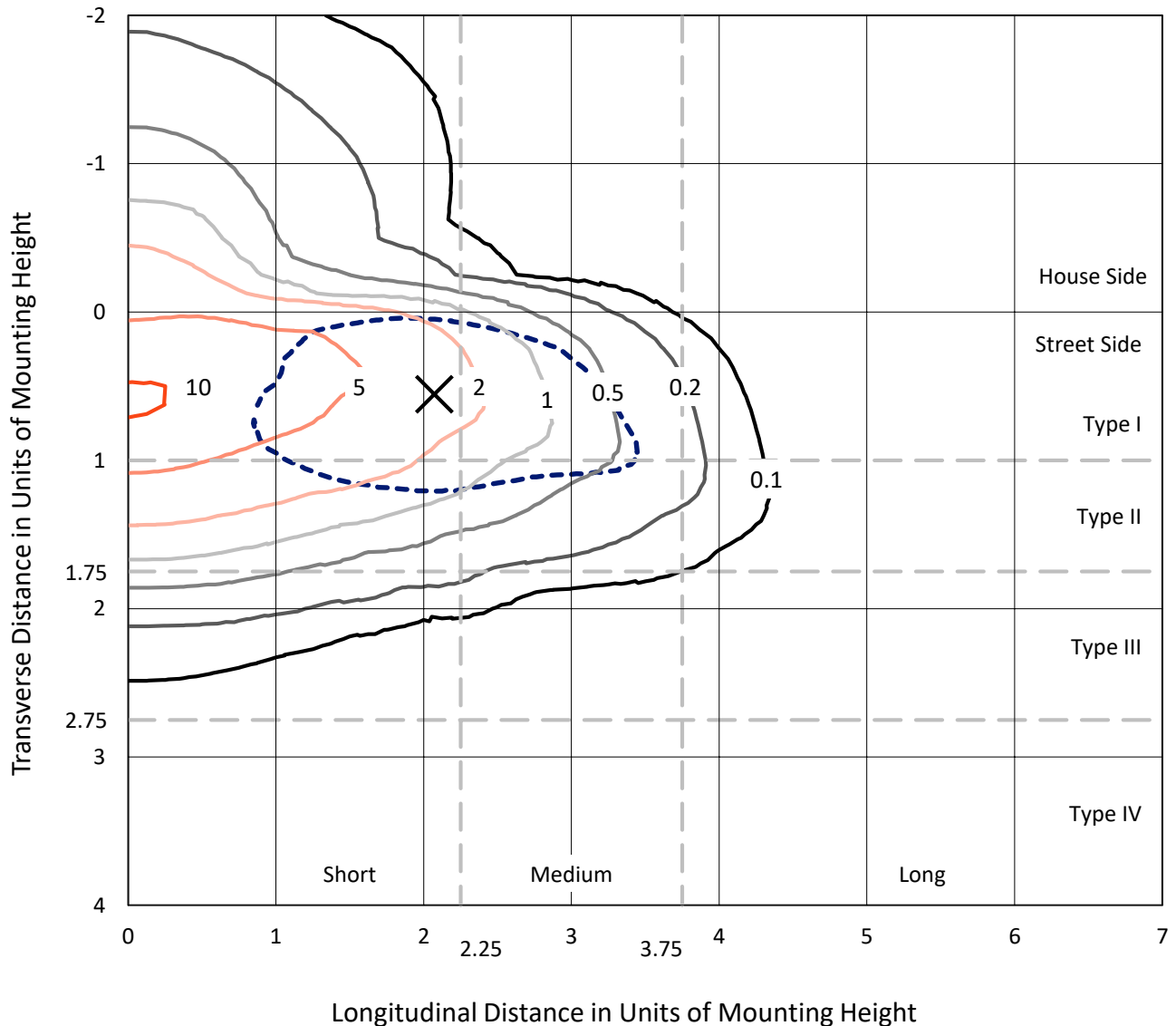
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

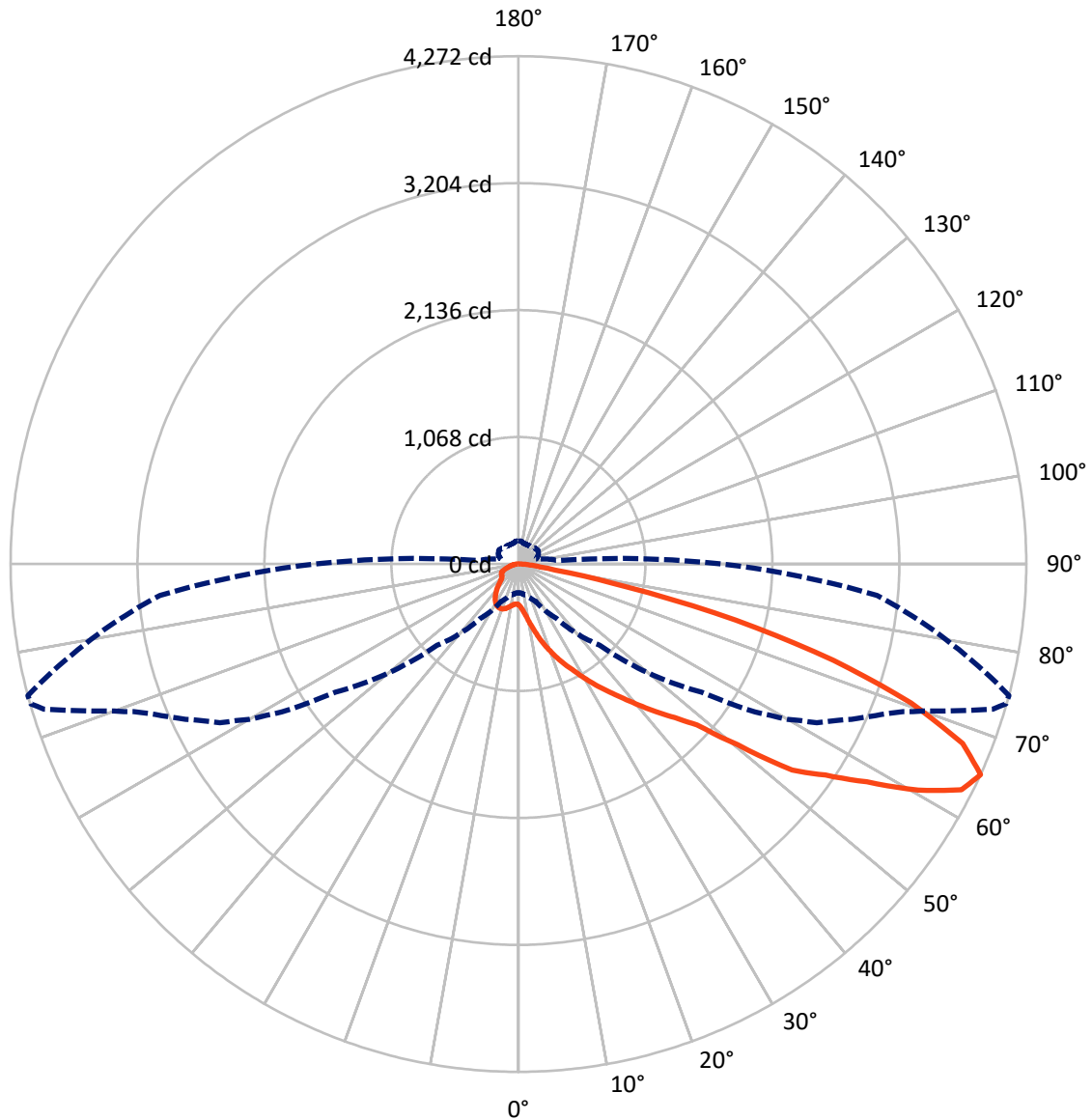
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 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
<b>House Side</b>	Lumens	650.7	0.0	650.7
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	3569.9	0.0	3569.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	4220.7	0.0	4220.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.4	1.0
10°-20°	165.7	3.9
20°-30°	339.9	8.1
30°-40°	571.8	13.5
40°-50°	790.1	18.7
50°-60°	986.3	23.4
60°-70°	887.5	21.0
70°-80°	372.0	8.8
80°-90°	65.0	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°	4220.7	100.0
0°-180°	4220.7	100.0



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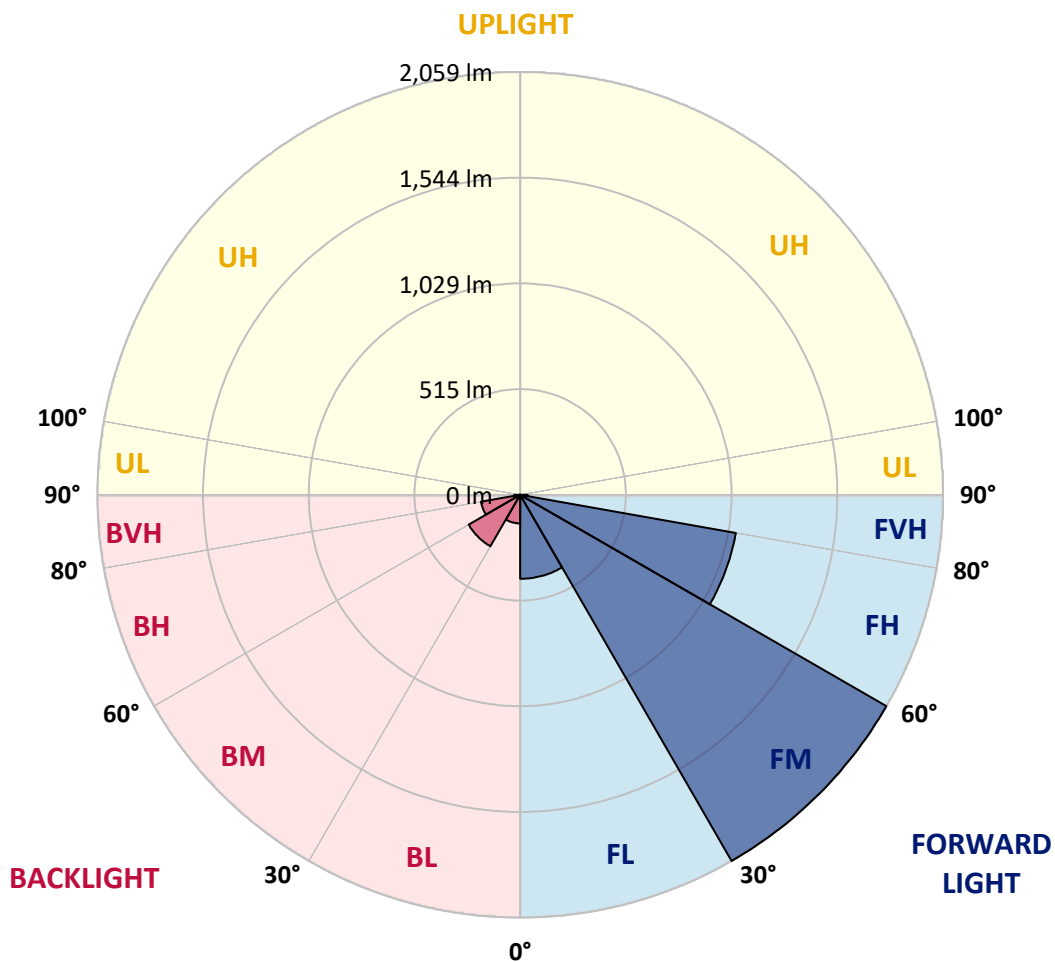
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	408.8	9.7			
FM	(30°-60°)	2058.5	48.8			
FH	(60°-80°)	1066.1	25.3			G1/1800
FVH	(80°-90°)	36.5	0.9			G1/100
BL	(0°-30°)	139.2	3.3	B1/500		
BM	(30°-60°)	289.6	6.9	B1/1000		
BH	(60°-80°)	193.4	4.6	B1/500		G1/500
BVH	(80°-90°)	28.5	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°	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0
2.5°	435.5	430.7	431.9	423.9	414.1	401.3	387.3	387.0	387.3	385.8	380.6
5°	603.8	598.0	595.9	578.0	551.5	514.1	473.3	468.8	467.1	462.5	451.9
7.5°	726.8	723.7	720.2	706.6	682.7	640.7	585.9	576.6	567.6	565.3	553.4
10°	806.2	805.2	798.1	794.6	779.6	743.2	689.9	680.8	671.1	667.7	655.0
12.5°	868.8	868.6	865.3	866.2	853.2	826.9	780.8	772.7	765.6	755.1	746.1
15°	912.2	912.4	917.3	922.9	920.9	903.1	860.0	856.5	850.2	843.1	832.4
17.5°	947.8	948.7	954.0	964.1	975.1	973.7	939.5	936.6	931.1	921.4	915.8
20°	1028.0	1031.9	1021.8	1021.8	1023.0	1028.4	1012.1	1009.7	1002.0	996.9	992.5
22.5°	1163.7	1168.1	1145.5	1122.5	1099.9	1083.6	1067.3	1070.2	1065.0	1061.4	1058.8
25°	1339.8	1343.3	1306.7	1268.0	1222.1	1162.1	1121.5	1119.7	1116.9	1114.8	1113.6
27.5°	1505.7	1507.1	1472.5	1415.8	1362.5	1276.3	1176.6	1174.4	1171.0	1166.9	1163.3
30°	1647.5	1647.1	1611.6	1557.4	1500.3	1405.0	1260.5	1253.5	1243.6	1232.2	1223.3
32.5°	1770.4	1769.8	1730.8	1674.7	1614.8	1532.5	1375.0	1361.1	1345.5	1323.3	1309.9
35°	1867.1	1866.7	1829.9	1771.4	1702.7	1652.5	1506.4	1489.3	1469.5	1439.8	1419.2
37.5°	1903.7	1903.7	1883.1	1843.1	1782.3	1748.0	1652.5	1631.8	1610.6	1576.8	1553.6
40°	1882.3	1882.6	1887.0	1879.7	1850.1	1823.7	1788.8	1776.3	1758.2	1727.8	1703.7
42.5°	1810.5	1812.7	1841.9	1877.6	1892.5	1888.2	1909.7	1904.1	1891.3	1867.9	1848.6
45°	1719.6	1726.4	1758.4	1825.9	1904.3	1944.0	2010.9	2011.6	2009.2	1996.5	1981.8
47.5°	1594.7	1604.4	1646.5	1737.9	1876.6	1998.2	2113.8	2119.2	2124.2	2116.1	2109.2
50°	1429.0	1440.4	1503.5	1624.5	1820.6	2054.3	2308.2	2332.5	2355.3	2352.6	2357.2
52.5°	1251.3	1264.7	1342.0	1476.9	1724.0	2067.3	2432.4	2472.2	2512.0	2544.5	2579.1
55°	1091.2	1084.0	1161.3	1303.4	1565.4	2008.7	2544.1	2592.0	2636.4	2676.5	2717.5
57.5°	874.0	885.8	963.3	1103.7	1355.5	1843.5	2621.0	2691.2	2754.9	2821.0	2879.3
60°	638.8	650.6	734.8	877.4	1127.5	1593.0	2562.3	2668.5	2770.7	2872.0	2951.1
62.5°	385.8	394.5	468.7	604.5	869.3	1296.0	2300.6	2440.1	2590.3	2711.4	2832.5
65°	240.2	245.1	272.5	347.2	558.4	967.5	1879.7	2031.6	2193.5	2347.1	2473.2
67.5°	196.5	198.5	203.3	219.4	306.7	630.9	1399.1	1533.7	1679.7	1828.4	1968.6
70°	176.8	175.6	175.6	176.6	196.5	339.2	915.9	1003.6	1125.4	1254.7	1382.7
72.5°	159.6	158.4	156.2	153.2	160.4	206.9	473.4	539.6	627.2	742.2	865.0
75°	143.4	141.8	139.2	135.5	140.4	156.2	227.4	255.1	297.8	359.0	427.5
77.5°	126.6	124.7	122.3	119.4	125.8	121.5	133.3	143.2	159.6	179.1	205.0
80°	107.7	105.9	105.1	103.7	111.2	92.6	94.1	100.3	110.0	120.5	132.4
82.5°	84.3	84.3	87.5	88.1	96.4	66.5	70.4	75.7	80.8	86.4	91.9
85°	55.5	55.9	66.7	70.9	76.2	44.8	52.8	54.5	58.6	61.7	64.1
87.5°	17.4	18.8	40.8	45.2	43.7	25.3	32.3	33.3	35.9	38.1	40.2
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°	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0
2.5°	380.6	378.1	376.0	375.8	374.2	372.0	372.8	369.4	369.7	367.7	365.8
5°	447.5	445.9	437.9	435.7	429.7	425.9	425.3	417.4	416.3	411.7	406.8
7.5°	543.8	538.5	527.4	522.0	511.8	504.2	500.6	490.0	484.9	472.9	467.5
10°	644.6	638.1	624.3	616.7	606.9	594.7	588.2	572.7	566.7	555.8	542.6
12.5°	738.1	731.6	717.4	711.6	698.6	685.6	678.4	661.0	653.3	635.7	625.3
15°	824.7	818.1	805.7	799.7	786.6	776.1	766.6	749.3	740.1	723.8	710.1
17.5°	908.6	901.6	890.8	885.4	872.8	862.0	851.6	835.5	826.1	809.7	797.5
20°	986.5	981.2	973.5	966.3	953.8	943.9	931.6	917.6	904.0	892.0	880.4
22.5°	1054.4	1052.3	1044.0	1040.8	1030.0	1021.7	1010.8	997.1	987.2	972.1	961.3
25°	1113.0	1112.4	1108.3	1107.4	1099.8	1091.7	1089.4	1078.0	1069.0	1055.6	1044.4
27.5°	1163.3	1163.8	1162.8	1165.7	1163.7	1160.2	1160.4	1156.5	1151.3	1140.1	1130.3
30°	1219.3	1216.0	1217.8	1221.8	1223.0	1223.3	1230.0	1232.2	1231.8	1224.4	1219.7
32.5°	1298.3	1290.8	1283.8	1283.1	1287.2	1288.7	1299.9	1305.7	1310.7	1312.5	1313.3
35°	1399.2	1384.0	1369.4	1361.7	1354.9	1356.7	1364.6	1374.1	1385.1	1392.6	1401.6
37.5°	1526.3	1507.7	1481.9	1463.5	1458.9	1449.0	1454.1	1461.6	1472.4	1484.1	1499.7
40°	1680.3	1652.1	1623.1	1598.8	1585.6	1567.3	1567.0	1565.5	1572.2	1583.1	1605.1
42.5°	1828.6	1803.6	1772.8	1747.3	1730.0	1705.4	1700.5	1687.5	1690.5	1700.1	1721.5
45°	1967.3	1946.8	1928.0	1898.5	1883.8	1857.3	1848.8	1833.5	1824.9	1829.3	1850.8
47.5°	2101.8	2088.6	2069.1	2049.9	2038.7	2015.0	2004.2	1993.1	1982.2	1981.8	2004.2
50°	2364.0	2356.9	2333.8	2313.8	2319.1	2290.0	2291.8	2262.2	2275.7	2277.2	2324.2
52.5°	2610.2	2634.6	2651.8	2672.8	2686.3	2689.0	2697.9	2711.4	2727.5	2759.5	2803.0
55°	2751.2	2781.8	2799.7	2815.6	2842.0	2847.7	2862.6	2880.3	2894.5	2930.5	2967.5
57.5°	2918.9	2975.6	3003.2	3028.5	3064.1	3077.8	3102.6	3122.1	3140.4	3182.9	3227.7
60°	3022.2	3091.3	3147.4	3187.6	3232.1	3264.1	3301.9	3332.2	3375.3	3426.4	3493.0
62.5°	2940.0	3041.6	3116.1	3185.0	3245.5	3306.6	3360.9	3417.5	3483.0	3560.2	3663.7
65°	2613.1	2716.3	2844.0	2915.5	2995.6	3089.9	3172.3	3264.1	3353.3	3465.7	3618.6
67.5°	2103.6	2223.7	2367.1	2439.2	2531.3	2636.7	2728.9	2841.2	2945.4	3081.5	3270.6
70°	1516.3	1671.5	1792.2	1867.5	1975.0	2083.5	2172.5	2303.1	2389.5	2529.0	2724.5
72.5°	960.1	1082.5	1230.4	1325.4	1420.8	1530.6	1621.7	1734.4	1814.9	1942.0	2119.2
75°	516.2	606.5	736.4	826.4	928.7	1022.6	1129.3	1204.8	1264.3	1364.8	1508.7
77.5°	241.9	296.8	362.6	431.9	501.3	573.5	643.9	705.0	730.6	788.1	873.0
80°	146.9	164.7	183.8	205.2	234.2	257.6	288.5	310.9	312.5	330.6	356.6
82.5°	98.2	104.7	110.5	115.9	123.3	129.0	135.7	143.4	146.6	150.8	159.2
85°	66.9	70.2	71.3	74.8	74.0	75.9	78.5	81.1	82.5	82.3	86.1
87.5°	41.2	42.7	43.6	44.4	43.7	42.9	44.1	45.6	46.0	44.8	45.2
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0
2.5°	366.2	364.4	362.6	361.4	361.0	350.4	345.8	342.8	336.4	331.3	327.0
5°	403.9	400.1	397.1	393.6	391.5	364.8	355.0	348.2	337.1	330.4	324.4
7.5°	464.7	454.1	447.9	440.9	435.0	386.6	370.4	359.8	344.1	335.4	328.7
10°	533.6	522.6	512.9	502.0	492.6	415.5	391.9	375.6	355.0	343.6	334.7
12.5°	610.5	599.8	587.4	573.5	561.6	452.4	419.5	396.2	367.9	352.8	340.3
15°	701.5	682.5	667.5	651.5	637.5	496.2	451.7	419.3	381.8	361.2	344.3
17.5°	785.9	765.9	745.5	731.6	715.4	545.5	484.0	442.9	393.2	366.6	345.3
20°	868.4	846.6	829.1	810.2	793.3	596.8	518.7	463.7	400.6	366.8	340.3
22.5°	941.2	927.5	908.0	887.6	870.5	647.9	551.0	481.3	403.3	362.2	331.4
25°	1023.9	1009.4	985.5	968.2	949.1	700.1	582.8	494.8	401.7	353.6	317.8
27.5°	1112.1	1096.2	1071.7	1053.6	1030.5	754.1	612.0	504.7	395.7	339.6	299.7
30°	1204.2	1189.7	1165.5	1147.3	1124.0	811.5	644.5	511.3	383.7	320.2	278.5
32.5°	1303.1	1290.9	1267.0	1248.0	1223.0	873.6	674.7	513.2	365.6	297.3	256.1
35°	1397.0	1388.5	1368.5	1350.7	1324.7	932.3	707.0	512.2	344.0	272.0	235.8
37.5°	1502.8	1497.7	1487.7	1465.1	1433.4	1012.1	745.5	508.0	317.6	247.2	220.1
40°	1615.4	1615.7	1605.0	1589.6	1560.0	1108.8	791.5	499.9	288.9	225.2	206.0
42.5°	1734.6	1740.8	1735.6	1724.6	1696.2	1206.2	846.4	489.8	260.9	203.8	192.0
45°	1871.3	1878.8	1886.9	1870.6	1843.1	1334.9	918.8	476.8	230.7	186.0	182.4
47.5°	2029.0	2040.9	2048.1	2048.3	2020.7	1494.3	1036.3	469.0	204.0	174.0	177.8
50°	2361.5	2365.4	2382.3	2411.9	2390.7	1863.3	1241.4	464.3	185.7	166.6	174.4
52.5°	2840.7	2882.6	2911.9	2909.9	2881.1	2097.7	1354.5	439.6	175.1	163.8	172.8
55°	3036.0	3088.1	3142.4	3156.8	3134.4	2297.6	1461.4	414.7	169.8	165.8	173.4
57.5°	3296.1	3384.0	3458.5	3489.8	3457.5	2553.5	1602.0	401.7	168.3	171.2	177.2
60°	3599.9	3708.6	3806.5	3862.9	3862.9	2847.7	1747.8	396.4	166.0	179.1	183.5
62.5°	3795.1	3954.7	4102.5	4185.0	4182.7	3052.3	1812.5	377.9	161.0	184.7	192.4
65°	3795.8	3985.7	4174.0	4266.8	4271.6	3027.1	1705.6	333.8	151.9	185.6	201.1
67.5°	3479.5	3681.8	3901.4	4005.1	4029.1	2786.6	1476.5	274.5	136.8	177.5	204.4
70°	2938.6	3136.3	3360.4	3462.3	3504.8	2375.6	1189.3	211.5	117.7	160.1	197.8
72.5°	2315.2	2508.9	2665.0	2739.4	2772.7	1815.8	866.0	159.8	96.4	134.8	180.0
75°	1639.1	1784.5	1867.5	1884.0	1889.3	1094.6	526.2	118.9	79.5	104.9	152.0
77.5°	925.1	987.4	980.7	988.0	926.5	422.5	229.1	85.1	65.5	79.8	117.9
80°	361.2	372.3	349.8	342.8	314.4	157.3	101.1	59.3	52.3	60.3	82.5
82.5°	159.2	164.4	159.6	160.8	153.8	81.1	60.5	42.9	40.0	44.1	54.7
85°	87.7	89.3	88.9	91.4	87.7	32.3	28.7	26.3	28.0	29.9	35.2
87.5°	42.7	43.1	41.7	43.9	42.5	16.4	14.2	15.0	16.4	16.8	16.8
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: GPC-AF-01-LED-E1-T2R-7030-600

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	343.0	343.0	343.0	343.0	343.0	343.0
2.5°	324.1	322.5	322.7	322.2	321.4	321.4
5°	321.2	319.6	319.6	319.2	318.3	318.5
7.5°	324.1	321.4	320.4	319.0	317.6	317.6
10°	327.2	322.7	319.8	317.4	315.6	315.6
12.5°	329.6	322.5	317.8	314.6	312.8	312.8
15°	330.4	321.0	314.6	310.9	309.2	309.1
17.5°	327.8	315.6	307.9	303.4	301.4	300.9
20°	319.8	305.8	296.4	291.5	288.7	287.7
22.5°	307.9	291.8	280.9	275.7	272.0	271.5
25°	291.0	273.9	263.1	258.1	256.1	255.5
27.5°	271.5	255.5	246.3	243.1	241.4	241.1
30°	252.9	239.3	232.5	230.1	228.0	227.6
32.5°	235.6	226.9	224.3	220.9	215.8	215.1
35°	223.1	222.4	220.6	212.9	206.6	204.8
37.5°	215.6	223.0	213.7	198.8	194.2	193.8
40°	211.2	216.8	200.9	195.8	196.2	195.8
42.5°	201.1	206.9	201.4	199.0	200.6	200.9
45°	191.2	197.5	204.4	202.7	206.6	206.6
47.5°	185.6	195.1	204.2	204.2	209.8	211.8
50°	179.1	193.2	200.9	203.8	208.1	206.6
52.5°	178.7	189.8	196.3	201.4	203.3	201.6
55°	179.4	187.0	191.7	197.3	199.7	200.0
57.5°	180.2	185.4	188.6	191.2	198.5	198.5
60°	182.3	184.0	185.7	187.2	196.5	196.7
62.5°	185.4	182.6	182.3	183.5	195.6	194.8
65°	190.4	180.6	177.5	178.9	194.6	192.2
67.5°	197.2	177.5	171.7	172.8	193.8	188.6
70°	203.3	172.8	164.7	163.6	186.2	177.0
72.5°	204.0	167.1	154.6	151.7	161.8	153.1
75°	193.9	163.5	143.6	134.8	133.7	132.4
77.5°	174.9	161.2	130.9	117.0	114.7	115.5
80°	146.2	153.1	115.5	99.1	112.1	110.7
82.5°	109.3	135.1	98.2	87.7	87.5	77.3
85°	60.7	105.3	79.9	65.8	45.8	44.4
87.5°	16.9	58.6	55.9	37.1	25.3	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)