

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: P200661

Luminaire Tested: **GPC-AF-01-LED-E1-T2R-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200661  
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-8030-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 80 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: 4366 lumens  
Efficiency: N/A  
Efficacy: 99.2 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

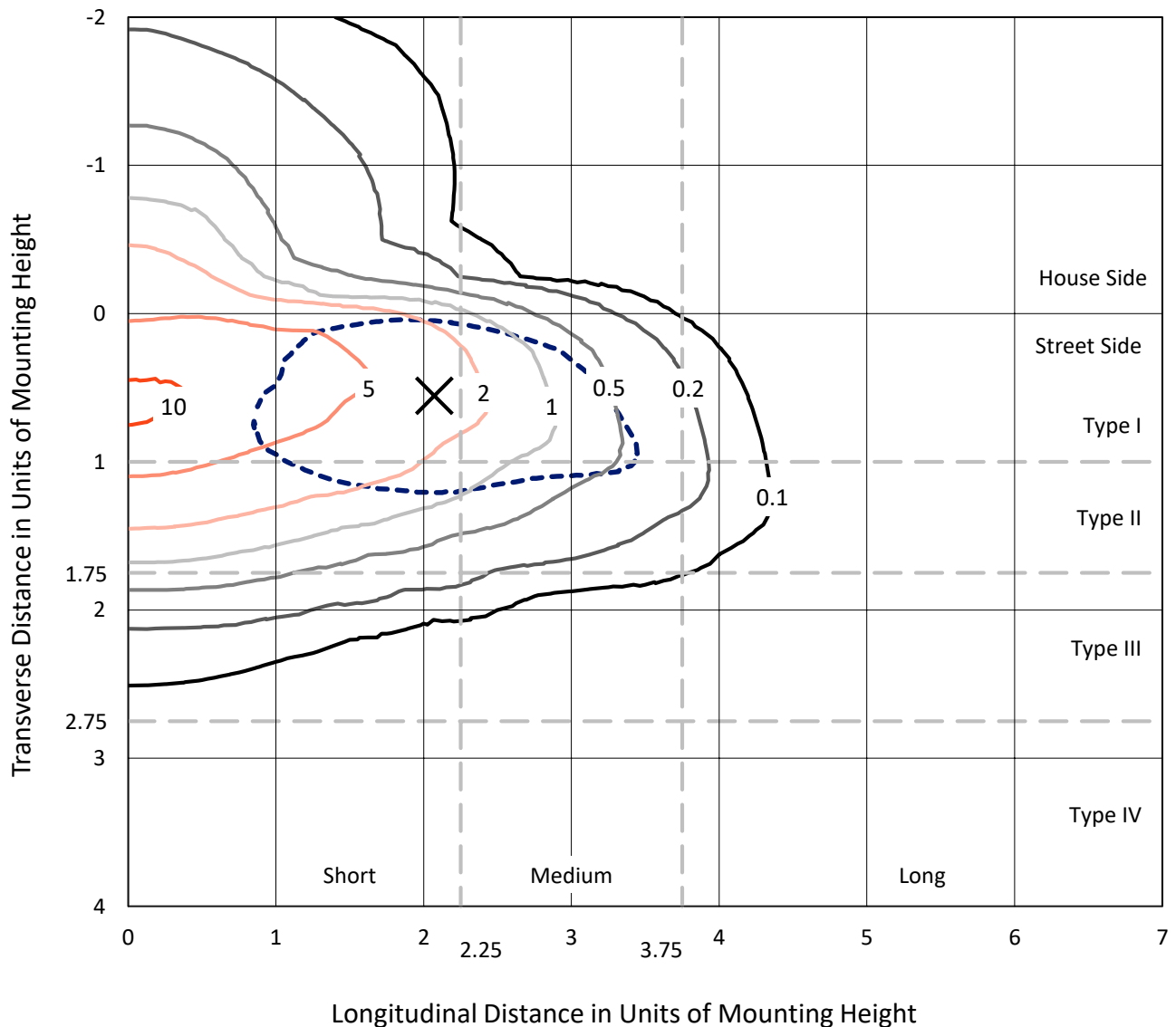
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

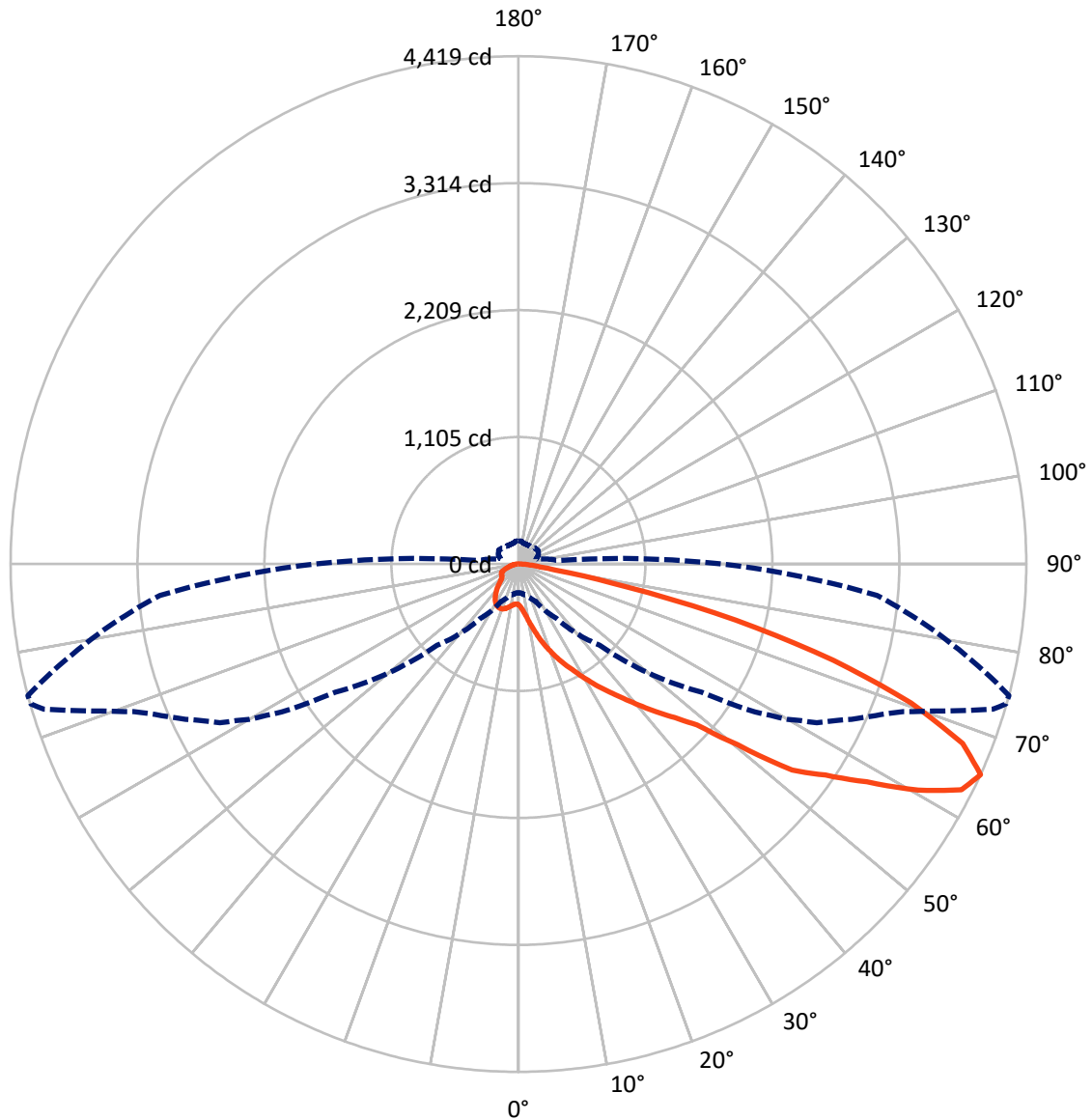
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 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	673.1	0.0	673.1
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	3692.9	0.0	3692.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	4366.0	0.0	4366.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.9	1.0
10°-20°	171.4	3.9
20°-30°	351.6	8.1
30°-40°	591.5	13.5
40°-50°	817.3	18.7
50°-60°	1020.2	23.4
60°-70°	918.1	21.0
70°-80°	384.9	8.8
80°-90°	67.2	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°	4366.0	100.0
0°-180°	4366.0	100.0



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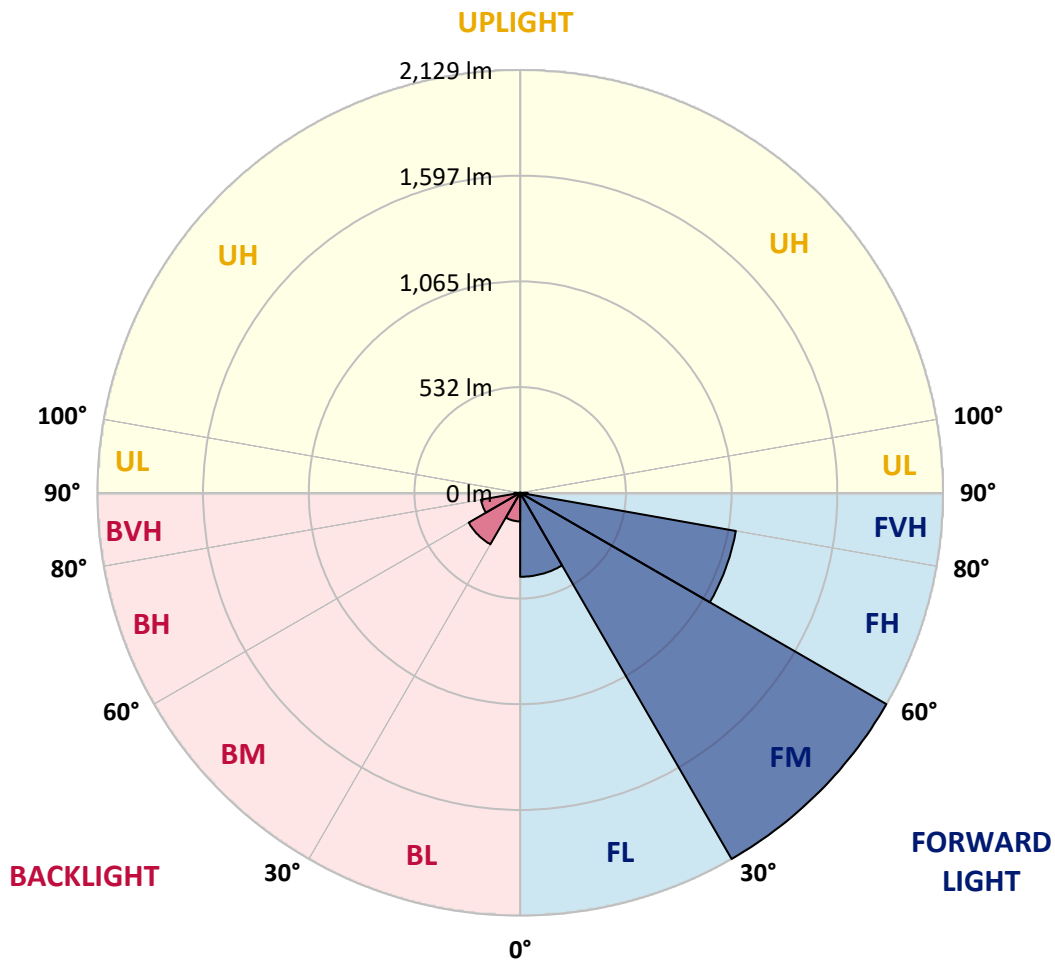
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.8	9.7			
FM (30°-60°)	2129.4	48.8			
FH (60°-80°)	1102.8	25.3			G1/1800
FVH (80°-90°)	37.8	0.9			G1/100
BL (0°-30°)	144.0	3.3	B1/500		
BM (30°-60°)	299.6	6.9	B1/1000		
BH (60°-80°)	200.1	4.6	B1/500		G1/500
BVH (80°-90°)	29.4	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°	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8
2.5°	450.5	445.5	446.8	438.5	428.4	415.2	400.5	400.3	400.5	399.0	393.7
5°	624.7	618.7	616.4	597.8	570.6	531.7	489.6	485.0	483.2	478.4	467.4
7.5°	751.8	748.5	745.0	730.9	706.1	662.7	606.1	596.4	587.1	584.8	572.4
10°	833.8	833.0	825.6	821.9	806.4	768.7	713.6	704.3	694.1	690.6	677.6
12.5°	898.7	898.5	895.0	896.0	882.6	855.3	807.8	799.3	791.9	781.1	771.8
15°	943.6	943.8	948.9	954.7	952.7	934.3	889.6	885.9	879.5	872.1	861.1
17.5°	980.4	981.4	986.8	997.3	1008.7	1007.2	971.9	968.8	963.2	953.1	947.3
20°	1063.4	1067.4	1057.0	1057.0	1058.3	1063.8	1046.9	1044.4	1036.6	1031.2	1026.6
22.5°	1203.7	1208.3	1184.9	1161.2	1137.8	1120.9	1103.9	1107.0	1101.7	1097.9	1095.3
25°	1386.0	1389.5	1351.7	1311.6	1264.1	1202.1	1160.1	1158.3	1155.4	1153.1	1151.9
27.5°	1557.5	1559.0	1523.2	1464.5	1409.4	1320.3	1217.2	1214.9	1211.4	1207.1	1203.3
30°	1704.3	1703.8	1667.1	1611.1	1552.0	1453.4	1303.8	1296.7	1286.4	1274.6	1265.5
32.5°	1831.3	1830.7	1790.4	1732.4	1670.4	1585.2	1422.4	1407.9	1391.8	1368.9	1355.0
35°	1931.4	1931.0	1892.9	1832.4	1761.3	1709.4	1558.4	1540.6	1520.1	1489.3	1468.1
37.5°	1969.2	1969.2	1947.9	1906.6	1843.7	1808.2	1709.4	1687.9	1666.0	1631.1	1607.1
40°	1947.1	1947.5	1952.0	1944.4	1913.8	1886.5	1850.4	1837.5	1818.7	1787.3	1762.3
42.5°	1872.9	1875.2	1905.3	1942.3	1957.6	1953.3	1975.4	1969.6	1956.4	1932.2	1912.4
45°	1778.9	1785.9	1818.9	1888.8	1969.8	2010.9	2080.2	2080.8	2078.3	2065.3	2050.0
47.5°	1649.7	1659.6	1703.2	1797.7	1941.3	2066.9	2186.6	2192.2	2197.3	2188.9	2181.8
50°	1478.2	1490.0	1555.3	1680.5	1883.2	2125.0	2387.7	2412.9	2436.4	2433.5	2438.3
52.5°	1294.5	1308.3	1388.3	1527.8	1783.4	2138.4	2516.2	2557.3	2598.4	2632.1	2667.9
55°	1128.7	1121.3	1201.3	1348.2	1619.3	2077.9	2631.7	2681.3	2727.2	2768.5	2811.1
57.5°	904.1	916.3	996.5	1141.8	1402.1	1907.0	2711.3	2783.8	2849.7	2918.1	2978.5
60°	660.9	673.1	760.1	907.6	1166.3	1647.8	2650.5	2760.5	2866.1	2970.8	3052.7
62.5°	399.0	408.1	484.8	625.3	899.3	1340.5	2379.8	2524.0	2679.4	2804.7	2930.1
65°	248.4	253.6	281.9	359.2	577.6	1000.8	1944.4	2101.6	2269.0	2428.0	2558.3
67.5°	203.3	205.2	210.4	226.9	317.2	652.6	1447.2	1586.5	1737.5	1891.3	2036.3
70°	182.9	181.6	181.6	182.7	203.3	350.9	947.5	1038.2	1164.1	1297.8	1430.4
72.5°	165.1	163.9	161.6	158.5	165.9	214.1	489.8	558.2	648.9	767.7	894.8
75°	148.4	146.7	144.0	140.1	145.3	161.6	235.2	263.9	308.1	371.4	442.2
77.5°	131.0	129.0	126.5	123.6	130.2	125.6	137.8	148.2	165.1	185.4	212.0
80°	111.4	109.5	108.7	107.3	115.1	95.7	97.3	103.7	113.7	124.6	137.0
82.5°	87.2	87.2	90.5	91.1	99.8	68.8	72.7	78.3	83.5	89.3	95.1
85°	57.4	57.9	69.0	73.4	78.7	46.3	54.6	56.4	60.5	63.9	66.3
87.5°	18.0	19.4	42.2	46.7	45.3	26.2	33.5	34.3	37.2	39.5	41.5
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8
2.5°	393.7	391.2	388.9	388.7	387.1	384.8	385.6	382.1	382.3	380.4	378.4
5°	462.9	461.2	453.0	450.7	444.5	440.6	440.0	431.7	430.7	425.9	420.7
7.5°	562.5	557.1	545.6	540.0	529.4	521.6	517.9	506.9	501.5	489.1	483.6
10°	666.9	660.0	645.8	637.9	627.8	615.2	608.4	592.5	586.3	574.9	561.3
12.5°	763.6	756.8	742.1	736.1	722.7	709.2	701.8	683.8	675.8	657.6	646.8
15°	853.1	846.2	833.4	827.2	813.8	802.8	792.9	775.2	765.6	748.7	734.6
17.5°	939.9	932.6	921.5	915.9	902.9	891.7	881.0	864.2	854.5	837.6	825.0
20°	1020.4	1015.1	1007.0	999.6	986.6	976.4	963.6	949.2	935.1	922.7	910.7
22.5°	1090.7	1088.6	1080.0	1076.7	1065.5	1056.8	1045.7	1031.4	1021.3	1005.6	994.4
25°	1151.3	1150.6	1146.5	1145.5	1137.6	1129.4	1126.9	1115.1	1105.8	1091.9	1080.4
27.5°	1203.3	1204.0	1202.9	1205.8	1203.7	1200.0	1200.2	1196.3	1190.9	1179.4	1169.2
30°	1261.2	1257.9	1259.7	1263.9	1265.1	1265.5	1272.4	1274.6	1274.2	1266.6	1261.6
32.5°	1343.0	1335.2	1327.9	1327.3	1331.5	1333.1	1344.7	1350.7	1355.8	1357.7	1358.5
35°	1447.4	1431.7	1416.6	1408.5	1401.5	1403.4	1411.6	1421.4	1432.7	1440.6	1449.9
37.5°	1578.8	1559.6	1532.9	1513.9	1509.2	1498.8	1504.2	1511.9	1523.0	1535.2	1551.3
40°	1738.1	1709.0	1679.0	1653.8	1640.2	1621.2	1621.0	1619.5	1626.3	1637.7	1660.4
42.5°	1891.5	1865.7	1833.8	1807.4	1789.6	1764.2	1759.0	1745.6	1748.7	1758.6	1780.7
45°	2035.1	2013.8	1994.4	1963.8	1948.7	1921.2	1912.6	1896.6	1887.8	1892.3	1914.4
47.5°	2174.2	2160.5	2140.3	2120.5	2108.9	2084.3	2073.1	2061.8	2050.4	2050.0	2073.1
50°	2445.3	2438.1	2414.1	2393.4	2399.0	2368.8	2370.7	2340.1	2354.0	2355.6	2404.2
52.5°	2700.1	2725.3	2743.1	2764.8	2778.8	2781.5	2790.8	2804.7	2821.4	2854.5	2899.5
55°	2846.0	2877.6	2896.0	2912.5	2939.8	2945.6	2961.1	2979.5	2994.2	3031.4	3069.6
57.5°	3019.4	3078.1	3106.6	3132.8	3169.6	3183.7	3209.5	3229.6	3248.6	3292.6	3338.9
60°	3126.2	3197.7	3255.8	3297.3	3343.4	3376.5	3415.5	3447.0	3491.6	3544.3	3613.3
62.5°	3041.3	3146.3	3223.4	3294.6	3357.3	3420.5	3476.5	3535.2	3603.0	3682.7	3789.8
65°	2703.0	2809.8	2941.9	3015.9	3098.7	3196.3	3281.4	3376.5	3468.9	3585.0	3743.3
67.5°	2176.0	2300.2	2448.6	2523.2	2618.5	2727.4	2822.9	2939.0	3046.9	3187.6	3383.3
70°	1568.5	1729.1	1853.9	1931.8	2043.0	2155.2	2247.3	2382.5	2471.8	2616.0	2818.3
72.5°	993.2	1119.8	1272.8	1370.9	1469.7	1583.4	1677.6	1794.2	1877.4	2008.9	2192.2
75°	534.0	627.4	761.7	854.9	960.7	1057.9	1168.2	1246.3	1307.9	1411.8	1560.6
77.5°	250.3	307.1	375.1	446.8	518.5	593.3	666.0	729.3	755.7	815.2	903.1
80°	151.9	170.3	190.1	212.2	242.2	266.4	298.4	321.6	323.2	342.0	368.9
82.5°	101.5	108.3	114.3	119.9	127.5	133.5	140.3	148.4	151.7	156.0	164.7
85°	69.2	72.5	73.8	77.3	76.5	78.5	81.2	83.9	85.3	85.1	89.1
87.5°	42.6	44.2	45.1	45.9	45.3	44.4	45.7	47.1	47.5	46.3	46.7
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°	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8	354.8
2.5°	378.8	376.9	375.1	373.8	373.4	362.5	357.7	354.6	348.0	342.6	338.3
5°	417.8	413.9	410.8	407.1	405.0	377.3	367.2	360.2	348.6	341.8	335.6
7.5°	480.7	469.7	463.3	456.1	449.9	399.9	383.1	372.2	356.1	347.0	339.9
10°	552.0	540.6	530.5	519.3	509.6	429.8	405.5	388.5	367.2	355.4	346.1
12.5°	631.5	620.4	607.6	593.3	580.9	467.9	434.0	409.8	380.7	364.9	351.9
15°	725.6	705.9	690.4	673.9	659.4	513.3	467.2	433.8	394.9	373.6	356.3
17.5°	813.0	792.3	771.2	756.8	740.0	564.4	500.7	458.1	406.7	379.2	357.1
20°	898.3	875.8	857.6	838.2	820.6	617.3	536.5	479.6	414.3	379.4	351.9
22.5°	973.5	959.5	939.2	918.2	900.4	670.2	569.9	497.8	417.2	374.7	342.8
25°	1059.1	1044.2	1019.4	1001.6	981.8	724.1	602.8	511.9	415.6	365.8	328.8
27.5°	1150.4	1133.9	1108.5	1089.9	1065.9	780.1	633.0	522.0	409.4	351.3	310.0
30°	1245.7	1230.6	1205.6	1186.8	1162.6	839.4	666.7	528.8	397.0	331.3	288.1
32.5°	1348.0	1335.4	1310.6	1291.0	1265.1	903.7	698.1	530.9	378.2	307.5	264.9
35°	1445.1	1436.4	1415.6	1397.2	1370.3	964.4	731.3	529.9	355.9	281.5	243.8
37.5°	1554.4	1549.3	1538.9	1515.6	1482.7	1046.9	771.2	525.5	328.6	255.6	227.7
40°	1671.0	1671.4	1660.2	1644.3	1613.7	1146.9	818.8	517.0	298.8	232.9	213.1
42.5°	1794.4	1800.8	1795.4	1784.0	1754.7	1247.8	875.6	506.7	269.9	210.8	198.6
45°	1935.7	1943.6	1951.8	1935.1	1906.6	1380.8	950.4	493.3	238.7	192.4	188.7
47.5°	2098.8	2111.2	2118.6	2118.8	2090.3	1545.8	1071.9	485.2	211.0	180.0	183.9
50°	2442.8	2446.8	2464.3	2494.9	2473.0	1927.4	1284.1	480.3	192.2	172.3	180.4
52.5°	2938.6	2981.8	3012.2	3010.1	2980.3	2169.8	1401.1	454.6	181.0	169.5	178.8
55°	3140.5	3194.4	3250.6	3265.5	3242.4	2376.7	1511.7	429.0	175.7	171.5	179.4
57.5°	3409.5	3500.5	3577.6	3610.0	3576.5	2641.4	1657.1	415.6	174.0	177.1	183.3
60°	3723.9	3836.3	3937.5	3995.8	3995.8	2945.6	1808.0	410.0	171.7	185.4	189.9
62.5°	3925.8	4090.9	4243.8	4329.1	4326.7	3157.4	1875.0	391.0	166.6	191.2	199.0
65°	3926.6	4122.9	4317.8	4413.7	4418.6	3131.4	1764.4	345.3	157.1	192.0	208.1
67.5°	3599.3	3808.6	4035.7	4143.0	4167.8	2882.6	1527.4	283.9	141.6	183.7	211.4
70°	3039.8	3244.2	3476.1	3581.5	3625.5	2457.3	1230.2	218.8	121.7	165.5	204.6
72.5°	2394.9	2595.3	2756.7	2833.8	2868.1	1878.3	895.8	165.3	99.8	139.5	186.2
75°	1695.6	1846.0	1931.8	1948.9	1954.3	1132.2	544.3	123.0	82.2	108.5	157.3
77.5°	957.0	1021.5	1014.5	1022.1	958.5	437.1	237.0	88.0	67.8	82.5	121.9
80°	373.6	385.2	361.8	354.6	325.3	162.6	104.6	61.4	54.1	62.4	85.3
82.5°	164.7	170.1	165.1	166.4	159.1	83.9	62.6	44.4	41.3	45.7	56.6
85°	90.7	92.4	92.0	94.6	90.7	33.5	29.8	27.3	28.9	31.0	36.4
87.5°	44.2	44.6	43.2	45.5	44.0	16.9	14.7	15.5	16.9	17.4	17.4
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):**

	135°	145°	155°	165°	175°	180°
0°	354.8	354.8	354.8	354.8	354.8	354.8
2.5°	335.2	333.5	333.7	333.3	332.5	332.5
5°	332.3	330.6	330.6	330.2	329.2	329.4
7.5°	335.2	332.5	331.5	330.0	328.6	328.6
10°	338.5	333.7	330.8	328.4	326.5	326.5
12.5°	341.0	333.5	328.8	325.5	323.6	323.6
15°	341.8	332.1	325.5	321.6	319.9	319.7
17.5°	339.1	326.5	318.5	313.9	311.8	311.2
20°	330.8	316.4	306.7	301.5	298.6	297.6
22.5°	318.5	301.9	290.6	285.2	281.5	280.8
25°	301.1	283.3	272.2	267.0	264.9	264.3
27.5°	280.8	264.3	254.8	251.5	249.6	249.4
30°	261.6	247.6	240.5	238.1	235.8	235.4
32.5°	243.6	234.8	232.1	228.6	223.2	222.6
35°	230.8	230.0	228.1	220.3	213.7	211.8
37.5°	223.0	230.6	221.1	205.6	200.9	200.5
40°	218.4	224.2	207.9	202.5	202.9	202.5
42.5°	208.1	214.1	208.3	205.8	207.5	207.9
45°	197.8	204.4	211.4	209.8	213.7	213.7
47.5°	192.0	201.9	211.2	211.2	217.0	219.1
50°	185.4	199.8	207.9	210.8	215.3	213.7
52.5°	185.0	196.3	203.1	208.3	210.4	208.5
55°	185.6	193.4	198.4	204.2	206.7	206.9
57.5°	186.4	191.8	195.1	197.8	205.2	205.2
60°	188.5	190.3	192.2	193.6	203.3	203.6
62.5°	191.8	188.9	188.5	189.9	202.3	201.5
65°	196.9	186.8	183.7	185.2	201.3	198.8
67.5°	204.0	183.7	177.7	178.8	200.5	195.1
70°	210.4	178.8	170.3	169.2	192.6	183.1
72.5°	211.0	173.0	159.9	156.8	167.4	158.3
75°	200.7	169.0	148.6	139.5	138.3	137.0
77.5°	180.8	166.8	135.4	121.1	118.6	119.4
80°	151.3	158.3	119.4	102.5	115.9	114.5
82.5°	113.0	139.7	101.5	90.7	90.5	80.0
85°	62.8	108.9	82.7	68.0	47.3	45.9
87.5°	17.6	60.5	57.9	38.4	26.2	27.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)