

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: P200659

Luminaire Tested: **GPC-AF-01-LED-E1-T2R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200659
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-8030-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 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: 3561 lumens
Efficiency: N/A
Efficacy: 104.7 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 (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

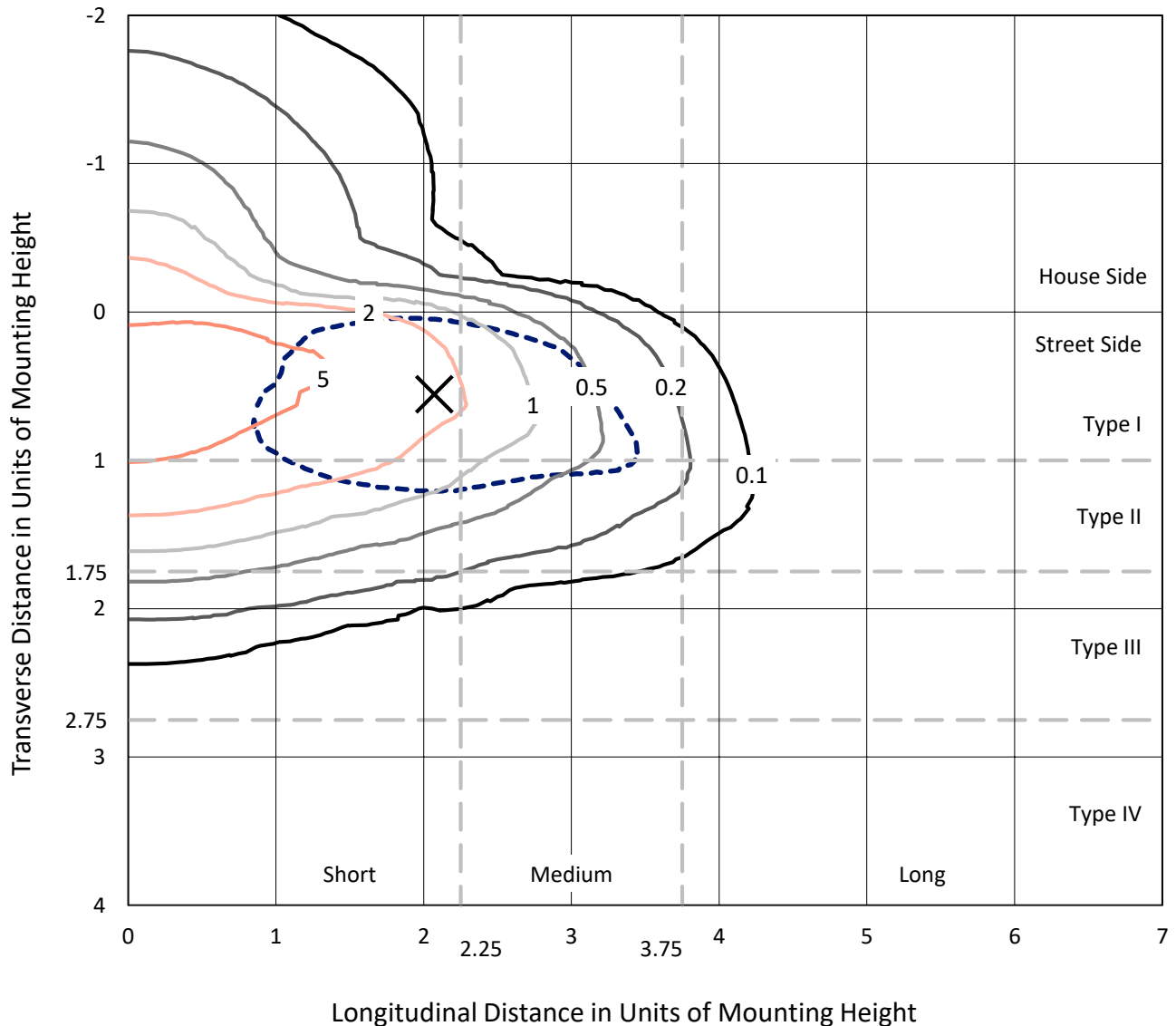


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Iso-Footcandle Lines of Horizontal Illumination

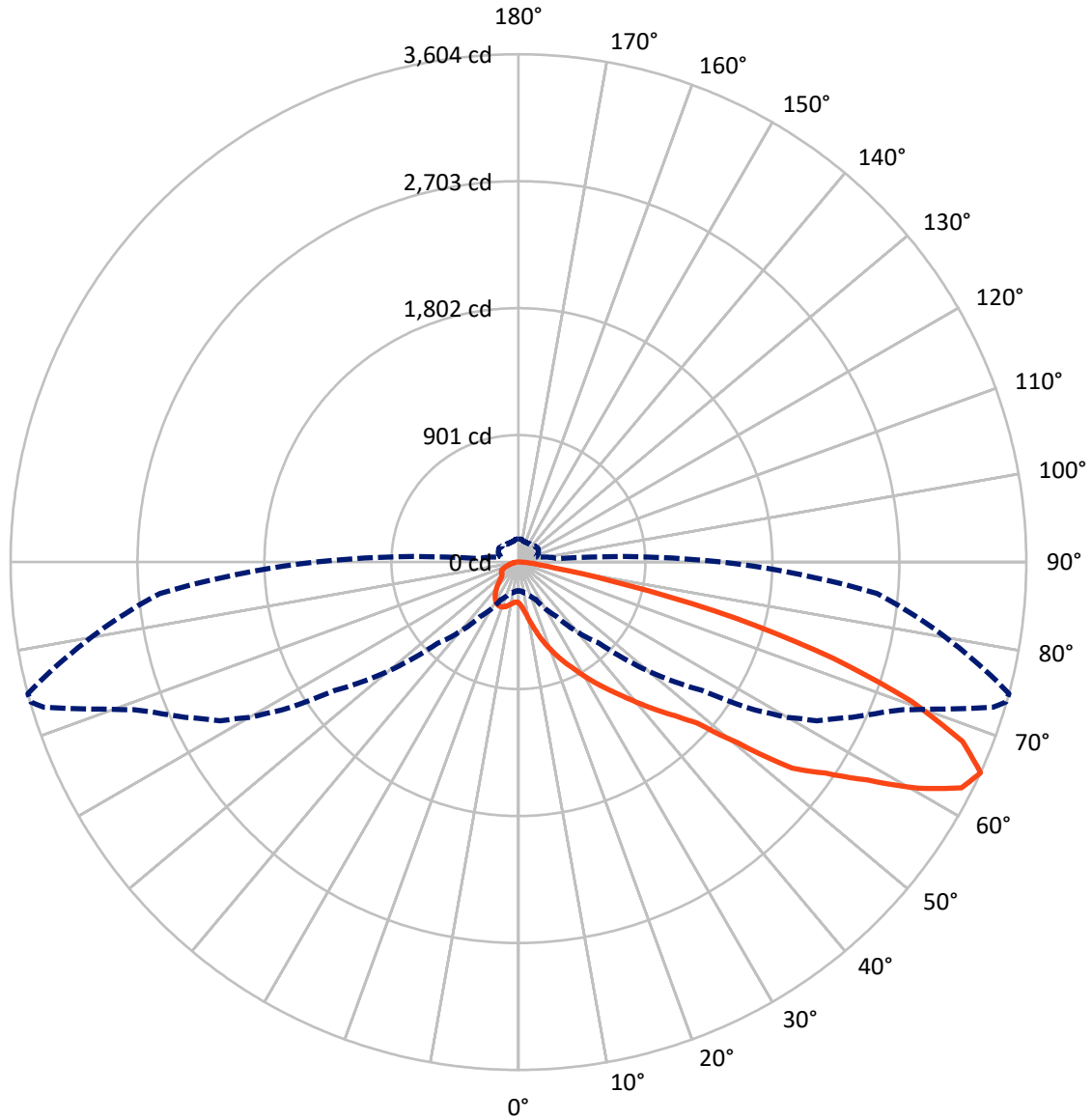
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 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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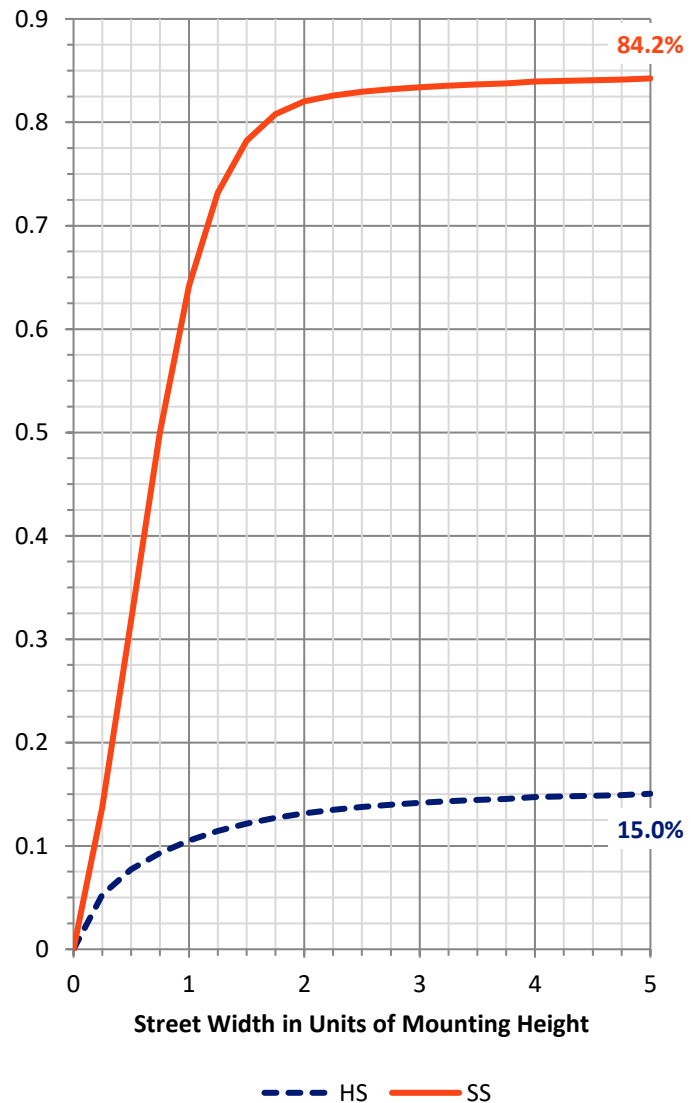
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.0	0.0	549.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3012.0	0.0	3012.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	3561.0	0.0	3561.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.8	1.0
10°-20°	139.8	3.9
20°-30°	286.8	8.1
30°-40°	482.4	13.5
40°-50°	666.6	18.7
50°-60°	832.1	23.4
60°-70°	748.8	21.0
70°-80°	313.9	8.8
80°-90°	54.8	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°	3561.0	100.0
0°-180°	3561.0	100.0



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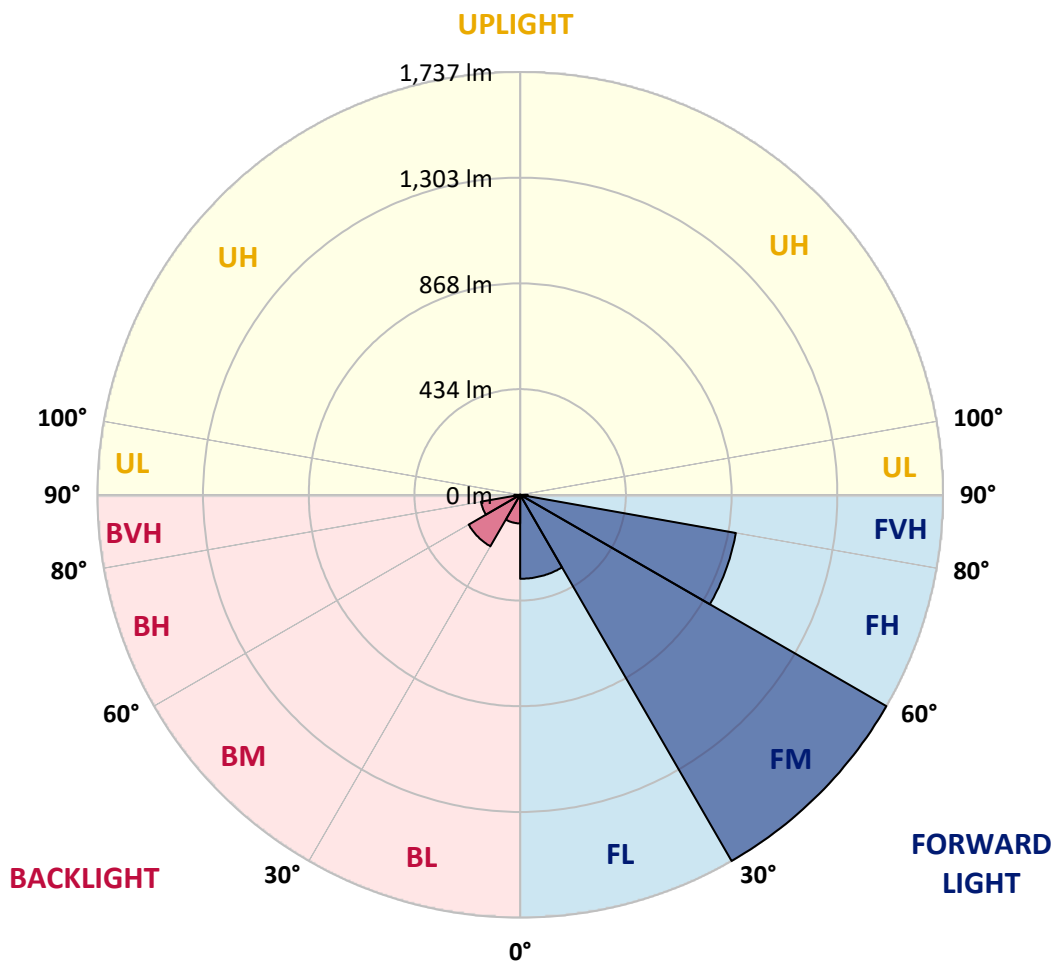
CATALOG NUMBER: GPC-AF-01-LED-E1-T2R-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.9	9.7			
FM	(30°-60°)	1736.8	48.8			
FH	(60°-80°)	899.5	25.3			G1/1800
FVH	(80°-90°)	30.8	0.9			G1/100
BL	(0°-30°)	117.4	3.3	B1/500		
BM	(30°-60°)	244.4	6.9	B1/1000		
BH	(60°-80°)	163.2	4.6	B1/500		G1/500
BVH	(80°-90°)	24.0	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°	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4
2.5°	367.4	363.4	364.4	357.7	349.4	338.6	326.6	326.5	326.6	325.5	321.1
5°	509.5	504.6	502.8	487.6	465.4	433.7	399.3	395.6	394.1	390.2	381.3
7.5°	613.2	610.5	607.6	596.2	575.9	540.5	494.4	486.4	478.8	477.0	466.9
10°	680.1	679.4	673.4	670.3	657.7	627.0	582.0	574.4	566.2	563.3	552.7
12.5°	733.0	732.9	730.0	730.8	719.9	697.6	658.9	651.9	645.9	637.1	629.5
15°	769.6	769.8	774.0	778.7	777.0	762.0	725.6	722.6	717.3	711.3	702.3
17.5°	799.6	800.4	804.8	813.4	822.7	821.5	792.7	790.2	785.6	777.3	772.6
20°	867.4	870.6	862.1	862.1	863.1	867.7	853.9	851.8	845.4	841.1	837.4
22.5°	981.8	985.5	966.5	947.1	928.0	914.2	900.4	902.9	898.5	895.5	893.3
25°	1130.5	1133.3	1102.5	1069.8	1031.0	980.5	946.2	944.7	942.4	940.5	939.5
27.5°	1270.4	1271.5	1242.4	1194.5	1149.5	1076.9	992.8	990.9	988.0	984.5	981.5
30°	1390.0	1389.7	1359.7	1314.0	1265.8	1185.4	1063.4	1057.6	1049.2	1039.6	1032.2
32.5°	1493.7	1493.2	1460.3	1412.9	1362.4	1292.9	1160.1	1148.3	1135.2	1116.5	1105.2
35°	1575.3	1574.9	1543.9	1494.5	1436.5	1394.2	1271.0	1256.5	1239.8	1214.7	1197.4
37.5°	1606.1	1606.1	1588.7	1555.0	1503.8	1474.8	1394.2	1376.7	1358.8	1330.4	1310.8
40°	1588.1	1588.4	1592.1	1585.9	1560.9	1538.7	1509.2	1498.7	1483.4	1457.8	1437.4
42.5°	1527.6	1529.4	1554.0	1584.2	1596.7	1593.1	1611.2	1606.4	1595.7	1575.9	1559.8
45°	1450.9	1456.6	1483.6	1540.5	1606.6	1640.2	1696.6	1697.1	1695.1	1684.5	1672.0
47.5°	1345.5	1353.6	1389.2	1466.2	1583.4	1685.8	1783.4	1788.0	1792.2	1785.3	1779.5
50°	1205.6	1215.2	1268.5	1370.6	1536.0	1733.2	1947.4	1968.0	1987.2	1984.8	1988.7
52.5°	1055.8	1067.1	1132.3	1246.1	1454.6	1744.1	2052.3	2085.8	2119.3	2146.8	2176.0
55°	920.6	914.5	979.8	1099.6	1320.8	1694.8	2146.5	2186.9	2224.3	2258.1	2292.8
57.5°	737.4	747.3	812.7	931.2	1143.6	1555.4	2211.4	2270.5	2324.3	2380.1	2429.3
60°	539.0	549.0	619.9	740.3	951.3	1344.0	2161.8	2251.5	2337.6	2423.1	2489.8
62.5°	325.5	332.9	395.4	510.0	733.5	1093.4	1941.0	2058.7	2185.4	2287.6	2389.9
65°	202.6	206.8	229.9	292.9	471.1	816.3	1585.9	1714.1	1850.7	1980.3	2086.6
67.5°	165.9	167.4	171.6	185.1	258.7	532.3	1180.4	1294.0	1417.2	1542.6	1660.9
70°	149.2	148.2	148.2	149.0	165.9	286.2	772.8	846.8	949.4	1058.5	1166.7
72.5°	134.7	133.7	131.8	129.3	135.3	174.6	399.5	455.3	529.2	626.2	729.8
75°	121.0	119.7	117.5	114.3	118.5	131.8	191.8	215.2	251.3	302.9	360.7
77.5°	106.9	105.2	103.2	100.8	106.2	102.5	112.4	120.8	134.7	151.2	172.9
80°	90.8	89.3	88.7	87.5	93.9	78.0	79.4	84.6	92.7	101.6	111.7
82.5°	71.1	71.1	73.8	74.3	81.4	56.1	59.3	63.9	68.1	72.8	77.5
85°	46.9	47.2	56.3	59.8	64.2	37.8	44.5	46.0	49.4	52.1	54.1
87.5°	14.7	15.8	34.4	38.1	36.9	21.4	27.3	28.0	30.3	32.2	33.9
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°	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4
2.5°	321.1	319.1	317.2	317.0	315.7	313.8	314.5	311.6	311.8	310.3	308.6
5°	377.6	376.2	369.5	367.6	362.5	359.3	358.8	352.1	351.3	347.4	343.2
7.5°	458.8	454.4	445.0	440.4	431.8	425.4	422.4	413.5	409.1	399.0	394.4
10°	543.9	538.3	526.7	520.3	512.1	501.8	496.2	483.2	478.2	468.9	457.8
12.5°	622.8	617.2	605.3	600.4	589.4	578.5	572.4	557.7	551.2	536.3	527.6
15°	695.8	690.2	679.8	674.7	663.7	654.8	646.7	632.2	624.5	610.7	599.2
17.5°	766.6	760.7	751.6	747.0	736.4	727.3	718.5	704.9	697.0	683.1	672.8
20°	832.3	827.9	821.3	815.3	804.7	796.4	785.9	774.1	762.7	752.6	742.8
22.5°	889.6	887.9	880.8	878.1	869.0	862.0	852.9	841.2	833.0	820.2	811.1
25°	939.0	938.5	935.1	934.3	927.9	921.1	919.1	909.5	901.9	890.6	881.2
27.5°	981.5	982.0	981.1	983.5	981.8	978.8	978.9	975.7	971.4	961.9	953.7
30°	1028.7	1026.0	1027.5	1030.8	1031.9	1032.2	1037.8	1039.6	1039.3	1033.0	1029.0
32.5°	1095.4	1089.0	1083.1	1082.6	1086.0	1087.3	1096.8	1101.6	1105.9	1107.4	1108.0
35°	1180.5	1167.7	1155.4	1148.8	1143.1	1144.6	1151.4	1159.3	1168.6	1175.0	1182.5
37.5°	1287.7	1272.0	1250.3	1234.8	1230.9	1222.5	1226.9	1233.1	1242.2	1252.2	1265.3
40°	1417.7	1393.9	1369.5	1348.9	1337.8	1322.3	1322.1	1320.9	1326.5	1335.8	1354.3
42.5°	1542.7	1521.7	1495.7	1474.1	1459.6	1438.9	1434.7	1423.7	1426.3	1434.4	1452.4
45°	1659.9	1642.5	1626.7	1601.7	1589.4	1567.0	1559.9	1546.9	1539.7	1543.4	1561.4
47.5°	1773.3	1762.2	1745.7	1729.5	1720.0	1700.0	1690.9	1681.6	1672.3	1672.0	1690.9
50°	1994.4	1988.5	1969.0	1952.1	1956.7	1932.1	1933.6	1908.7	1919.9	1921.3	1960.9
52.5°	2202.3	2222.8	2237.3	2255.0	2266.5	2268.7	2276.3	2287.6	2301.2	2328.2	2364.9
55°	2321.3	2347.1	2362.1	2375.5	2397.8	2402.5	2415.1	2430.1	2442.1	2472.5	2503.6
57.5°	2462.7	2510.5	2533.8	2555.2	2585.2	2596.7	2617.7	2634.1	2649.6	2685.5	2723.3
60°	2549.8	2608.1	2655.5	2689.4	2727.0	2753.9	2785.8	2811.4	2847.8	2890.8	2947.1
62.5°	2480.5	2566.2	2629.0	2687.2	2738.3	2789.8	2835.5	2883.4	2938.7	3003.7	3091.0
65°	2204.6	2291.8	2399.5	2459.8	2527.4	2607.0	2676.4	2753.9	2829.3	2924.0	3053.1
67.5°	1774.8	1876.1	1997.1	2058.0	2135.7	2224.5	2302.4	2397.1	2485.1	2599.9	2759.5
70°	1279.3	1410.3	1512.1	1575.6	1666.3	1757.8	1833.0	1943.2	2016.0	2133.7	2298.7
72.5°	810.0	913.4	1038.1	1118.2	1198.7	1291.4	1368.3	1463.3	1531.3	1638.5	1788.0
75°	435.5	511.7	621.3	697.3	783.6	862.8	952.8	1016.5	1066.7	1151.5	1272.9
77.5°	204.1	250.5	305.9	364.4	422.9	483.9	543.2	594.8	616.4	664.9	736.6
80°	123.9	138.9	155.1	173.1	197.5	217.3	243.4	262.3	263.6	278.9	300.9
82.5°	82.8	88.3	93.2	97.8	104.0	108.9	114.4	121.0	123.7	127.3	134.3
85°	56.5	59.2	60.2	63.0	62.4	64.0	66.2	68.4	69.6	69.4	72.6
87.5°	34.7	36.1	36.7	37.4	36.9	36.2	37.2	38.4	38.8	37.8	38.1
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4	289.4
2.5°	309.0	307.4	305.9	304.9	304.6	295.6	291.8	289.2	283.8	279.5	275.9
5°	340.8	337.6	335.1	332.0	330.4	307.8	299.5	293.8	284.3	278.8	273.7
7.5°	392.0	383.1	377.9	372.0	366.9	326.1	312.5	303.6	290.4	283.0	277.3
10°	450.2	440.9	432.7	423.6	415.6	350.6	330.7	316.9	299.5	289.9	282.3
12.5°	515.1	506.0	495.5	483.9	473.8	381.6	354.0	334.2	310.5	297.7	287.0
15°	591.8	575.8	563.1	549.6	537.8	418.7	381.1	353.8	322.1	304.7	290.6
17.5°	663.1	646.2	629.0	617.2	603.6	460.3	408.4	373.7	331.7	309.3	291.3
20°	732.7	714.3	699.5	683.6	669.3	503.5	437.6	391.2	337.9	309.5	287.0
22.5°	794.0	782.6	766.1	748.9	734.4	546.6	464.9	406.0	340.3	305.6	279.6
25°	863.8	851.7	831.5	817.0	800.8	590.6	491.7	417.5	339.0	298.3	268.2
27.5°	938.3	924.8	904.1	888.9	869.4	636.3	516.3	425.8	333.9	286.5	252.8
30°	1016.0	1003.7	983.3	968.0	948.3	684.6	543.7	431.3	323.8	270.2	235.0
32.5°	1099.4	1089.2	1068.9	1052.9	1031.9	737.1	569.4	433.0	308.4	250.8	216.1
35°	1178.7	1171.6	1154.6	1139.6	1117.7	786.6	596.5	432.2	290.2	229.6	198.9
37.5°	1267.8	1263.6	1255.2	1236.1	1209.3	853.9	629.0	428.6	268.0	208.5	185.7
40°	1362.9	1363.2	1354.1	1341.1	1316.2	935.4	667.8	421.7	243.7	190.0	173.8
42.5°	1463.5	1468.7	1464.4	1455.1	1431.2	1017.7	714.1	413.3	220.1	171.9	162.0
45°	1578.8	1585.2	1591.9	1578.3	1555.0	1126.2	775.2	402.3	194.7	156.9	153.9
47.5°	1711.8	1721.9	1728.0	1728.1	1704.9	1260.7	874.3	395.8	172.1	146.8	150.0
50°	1992.4	1995.6	2010.0	2034.9	2017.0	1572.1	1047.4	391.7	156.8	140.6	147.1
52.5°	2396.8	2432.0	2456.8	2455.1	2430.8	1769.8	1142.8	370.8	147.6	138.2	145.8
55°	2561.4	2605.4	2651.3	2663.4	2644.5	1938.5	1232.9	349.9	143.3	139.9	146.3
57.5°	2780.9	2855.1	2917.9	2944.4	2917.1	2154.4	1351.6	339.0	141.9	144.4	149.5
60°	3037.3	3129.0	3211.5	3259.1	3259.1	2402.5	1474.6	334.4	140.1	151.2	154.9
62.5°	3201.9	3336.6	3461.3	3530.9	3528.9	2575.3	1529.2	318.9	135.9	155.9	162.3
65°	3202.6	3362.7	3521.7	3599.9	3603.9	2554.0	1439.1	281.6	128.1	156.6	169.7
67.5°	2935.6	3106.4	3291.6	3379.1	3399.3	2351.1	1245.7	231.6	115.5	149.8	172.4
70°	2479.4	2646.1	2835.2	2921.1	2957.0	2004.2	1003.4	178.5	99.3	135.0	166.9
72.5°	1953.3	2116.8	2248.4	2311.3	2339.3	1531.9	730.7	134.8	81.4	113.8	151.9
75°	1382.9	1505.7	1575.6	1589.6	1594.0	923.5	444.0	100.3	67.1	88.5	128.3
77.5°	780.6	833.1	827.4	833.6	781.7	356.5	193.3	71.8	55.3	67.3	99.4
80°	304.7	314.2	295.1	289.2	265.3	132.6	85.3	50.1	44.2	50.9	69.6
82.5°	134.3	138.7	134.7	135.7	129.8	68.4	51.1	36.2	33.7	37.2	46.2
85°	74.0	75.3	75.0	77.2	74.0	27.3	24.3	22.2	23.6	25.3	29.7
87.5°	36.1	36.4	35.2	37.1	35.9	13.8	12.0	12.6	13.8	14.2	14.2
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):

	135°	145°	155°	165°	175°	180°
0°	289.4	289.4	289.4	289.4	289.4	289.4
2.5°	273.4	272.0	272.2	271.9	271.2	271.2
5°	271.0	269.7	269.7	269.3	268.5	268.7
7.5°	273.4	271.2	270.4	269.2	268.0	268.0
10°	276.1	272.2	269.8	267.8	266.3	266.3
12.5°	278.1	272.0	268.2	265.5	263.9	263.9
15°	278.8	270.9	265.5	262.3	260.9	260.7
17.5°	276.6	266.3	259.7	256.0	254.3	253.8
20°	269.8	258.0	250.1	245.9	243.6	242.7
22.5°	259.7	246.3	237.0	232.6	229.6	229.1
25°	245.6	231.1	222.0	217.8	216.1	215.6
27.5°	229.1	215.6	207.8	205.1	203.6	203.4
30°	213.4	201.9	196.2	194.2	192.3	192.0
32.5°	198.7	191.5	189.3	186.4	182.0	181.5
35°	188.3	187.6	186.1	179.7	174.3	172.8
37.5°	181.9	188.1	180.3	167.7	163.8	163.5
40°	178.2	182.9	169.6	165.2	165.5	165.2
42.5°	169.7	174.6	169.9	167.9	169.2	169.6
45°	161.3	166.7	172.4	171.1	174.3	174.3
47.5°	156.6	164.7	172.3	172.3	177.0	178.7
50°	151.2	163.0	169.6	171.9	175.6	174.3
52.5°	150.9	160.1	165.7	169.9	171.6	170.1
55°	151.4	157.8	161.8	166.5	168.5	168.7
57.5°	152.0	156.4	159.1	161.3	167.4	167.4
60°	153.7	155.2	156.8	157.9	165.9	166.0
62.5°	156.4	154.1	153.7	154.9	165.0	164.3
65°	160.6	152.4	149.8	151.0	164.2	162.1
67.5°	166.4	149.8	145.0	145.8	163.5	159.1
70°	171.6	145.8	138.9	138.0	157.1	149.3
72.5°	172.1	141.1	130.5	127.9	136.5	129.1
75°	163.7	137.9	121.2	113.8	112.8	111.7
77.5°	147.5	136.0	110.4	98.8	96.7	97.4
80°	123.4	129.1	97.4	83.6	94.6	93.4
82.5°	92.2	113.9	82.8	74.0	73.8	65.2
85°	51.2	88.8	67.4	55.5	38.6	37.4
87.5°	14.3	49.4	47.2	31.4	21.4	22.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)