

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: P193959

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193959
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: GLEON-AF-01-LED-E1-T2R-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5812 lumens
Efficiency: N/A
Efficacy: 86.7 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): 67
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

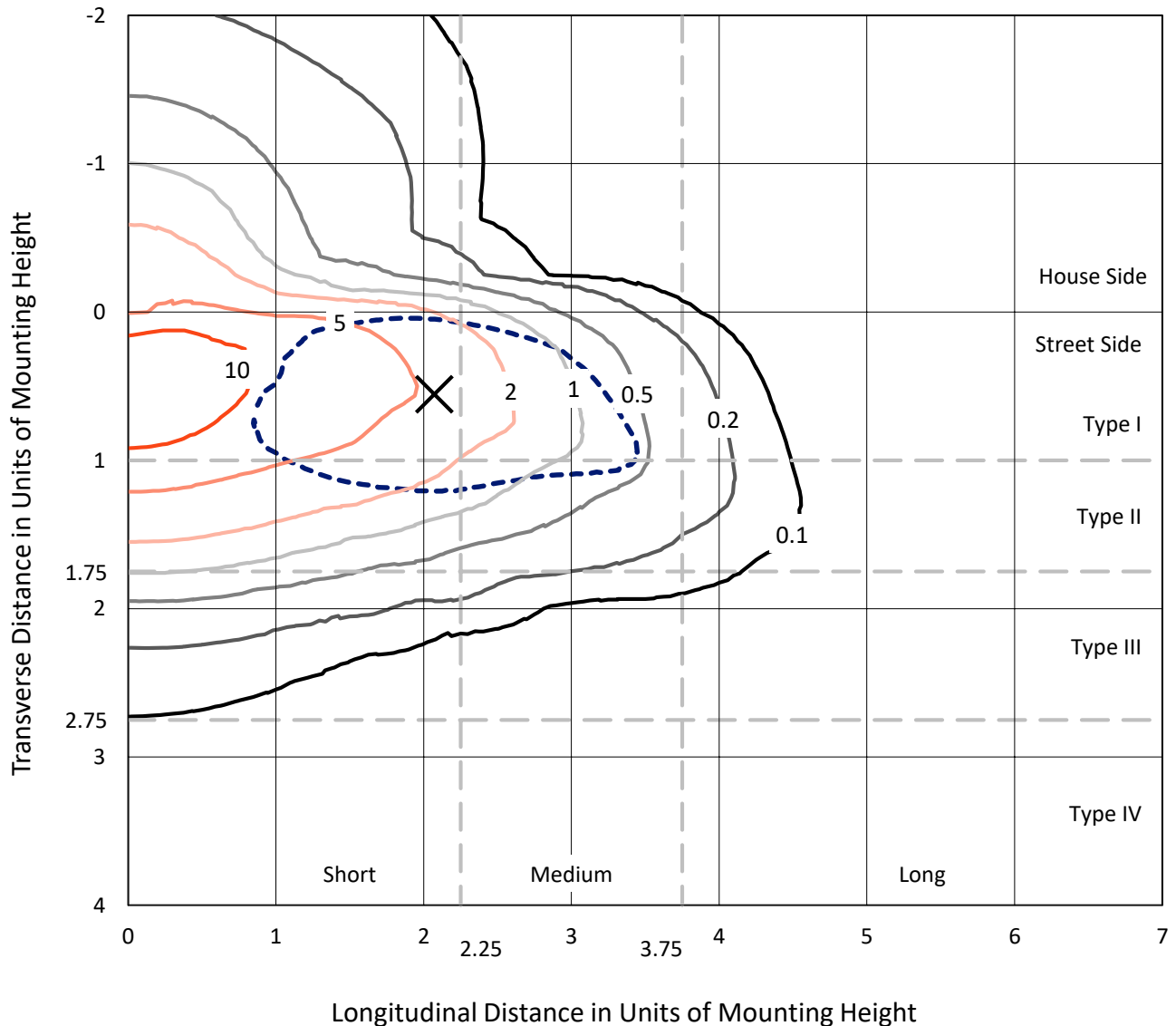


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Iso-Footcandle Lines of Horizontal Illumination

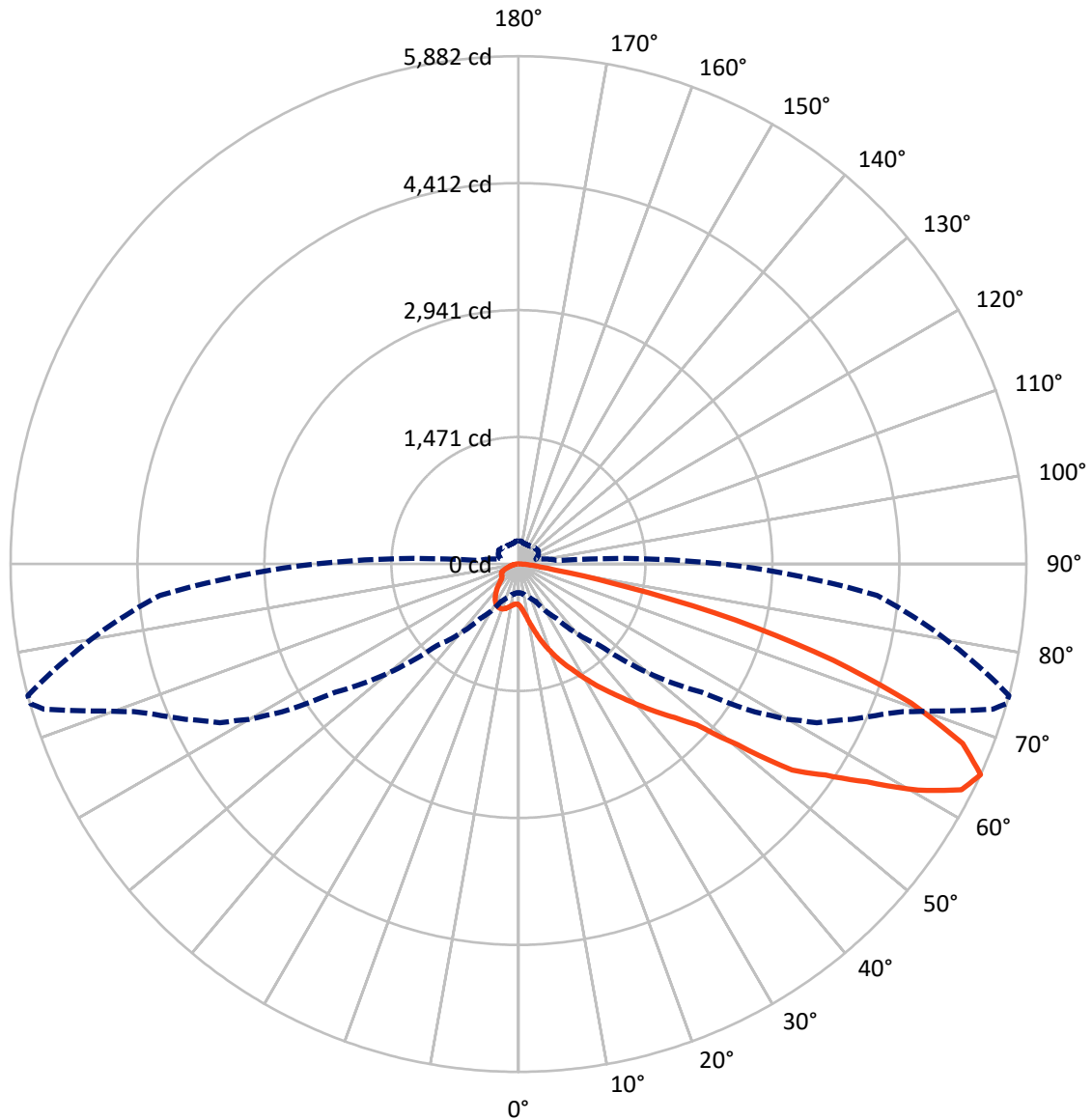
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 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	896.1	0.0	896.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4915.9	0.0	4915.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	5812.0	0.0	5812.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.0
10°-20°	228.1	3.9
20°-30°	468.0	8.1
30°-40°	787.4	13.5
40°-50°	1088.0	18.7
50°-60°	1358.1	23.4
60°-70°	1222.2	21.0
70°-80°	512.3	8.8
80°-90°	89.5	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°	5812.0	100.0
0°-180°	5812.0	100.0



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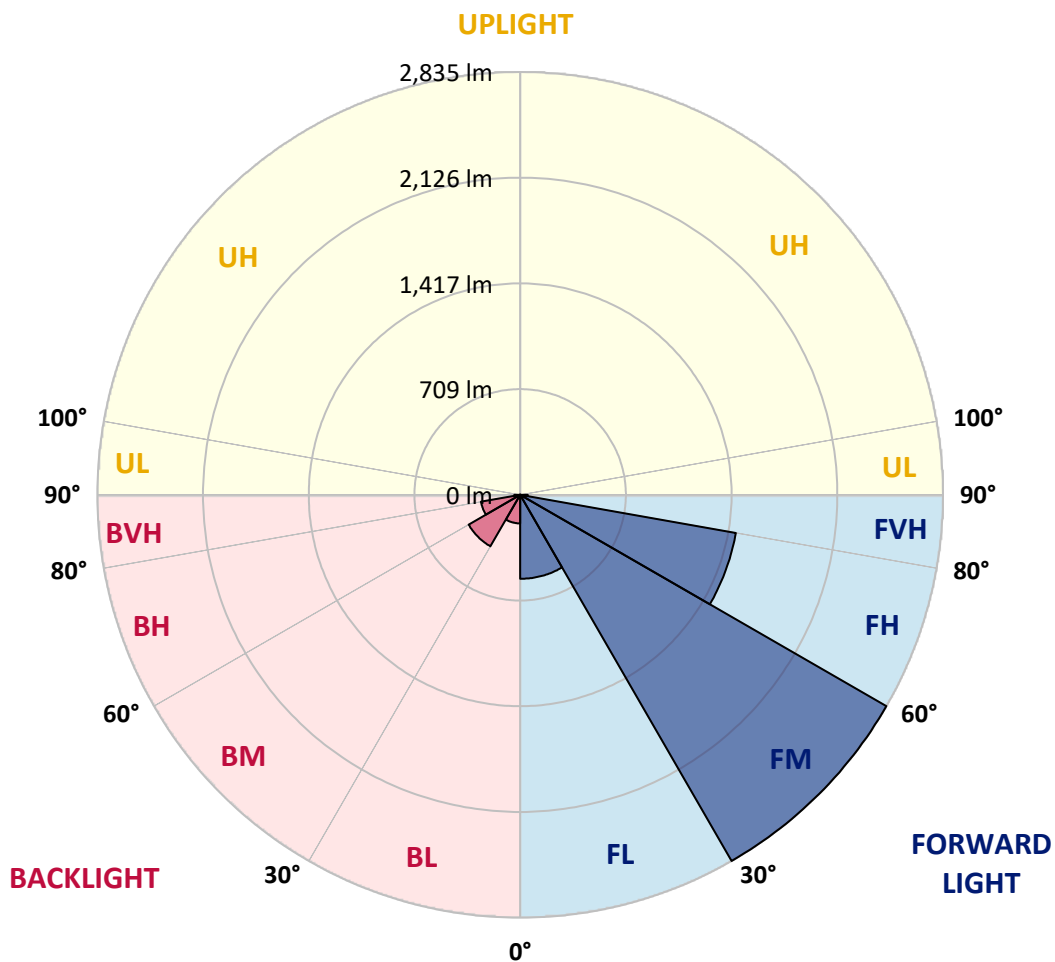
CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	562.9	9.7			
FM (30°-60°)	2834.7	48.8			
FH (60°-80°)	1468.1	25.3			G1/1800
FVH (80°-90°)	50.3	0.9			G1/100
BL (0°-30°)	191.6	3.3	B1/500		
BM (30°-60°)	398.9	6.9	B1/1000		
BH (60°-80°)	266.4	4.6	B1/500		G1/500
BVH (80°-90°)	39.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3
2.5°	599.7	593.1	594.8	583.7	570.3	552.7	533.1	532.9	533.1	531.2	524.1
5°	831.6	823.6	820.6	795.8	759.5	707.8	651.7	645.6	643.2	636.8	622.3
7.5°	1000.8	996.4	991.7	973.0	940.0	882.2	806.9	793.9	781.5	778.5	762.0
10°	1110.0	1108.9	1099.0	1094.0	1073.4	1023.3	949.9	937.5	924.0	919.4	902.0
12.5°	1196.4	1196.1	1191.4	1192.8	1174.9	1138.6	1075.3	1064.1	1054.2	1039.9	1027.5
15°	1256.1	1256.4	1263.2	1270.9	1268.2	1243.7	1184.3	1179.3	1170.8	1160.9	1146.3
17.5°	1305.0	1306.4	1313.6	1327.6	1342.7	1340.8	1293.8	1289.6	1282.2	1268.7	1261.0
20°	1415.6	1420.9	1407.1	1407.1	1408.8	1416.2	1393.6	1390.3	1379.9	1372.7	1366.7
22.5°	1602.4	1608.5	1577.4	1545.8	1514.7	1492.1	1469.6	1473.7	1466.5	1461.6	1458.0
25°	1845.1	1849.7	1799.4	1746.0	1682.7	1600.2	1544.4	1541.9	1538.0	1535.0	1533.4
27.5°	2073.4	2075.3	2027.7	1949.6	1876.1	1757.6	1620.3	1617.3	1612.6	1606.8	1601.9
30°	2268.7	2268.1	2219.2	2144.6	2066.0	1934.7	1735.6	1726.2	1712.5	1696.8	1684.7
32.5°	2437.9	2437.1	2383.4	2306.1	2223.6	2110.2	1893.5	1874.2	1852.8	1822.2	1803.8
35°	2571.0	2570.5	2519.9	2439.3	2344.6	2275.6	2074.5	2050.8	2023.6	1982.6	1954.3
37.5°	2621.4	2621.4	2593.0	2538.0	2454.4	2407.1	2275.6	2247.0	2217.8	2171.3	2139.4
40°	2591.9	2592.5	2598.5	2588.4	2547.6	2511.3	2463.2	2446.1	2421.1	2379.3	2346.0
42.5°	2493.2	2496.2	2536.4	2585.6	2606.0	2600.2	2629.6	2621.9	2604.3	2572.1	2545.7
45°	2368.0	2377.4	2421.4	2514.4	2622.2	2676.9	2769.1	2769.9	2766.6	2749.3	2728.9
47.5°	2196.1	2209.3	2267.3	2393.0	2584.2	2751.5	2910.8	2918.2	2925.1	2913.8	2904.4
50°	1967.7	1983.4	2070.4	2237.1	2506.9	2828.8	3178.4	3212.0	3243.4	3239.5	3245.8
52.5°	1723.2	1741.6	1848.1	2033.8	2374.1	2846.7	3349.5	3404.3	3459.0	3503.9	3551.5
55°	1502.6	1492.7	1599.1	1794.7	2155.6	2766.1	3503.3	3569.3	3630.4	3685.4	3742.1
57.5°	1203.5	1219.8	1326.5	1519.9	1866.5	2538.6	3609.2	3705.8	3793.5	3884.6	3964.9
60°	879.8	896.0	1011.8	1208.2	1552.6	2193.6	3528.4	3674.7	3815.3	3954.7	4063.7
62.5°	531.2	543.3	645.4	832.4	1197.2	1784.5	3168.0	3360.0	3566.9	3733.6	3900.6
65°	330.7	337.5	375.2	478.1	768.9	1332.3	2588.4	2797.7	3020.5	3232.1	3405.7
67.5°	270.7	273.2	280.0	302.1	422.3	868.7	1926.5	2111.9	2313.0	2517.7	2710.8
70°	243.5	241.8	241.8	243.2	270.7	467.1	1261.3	1382.1	1549.6	1727.6	1904.2
72.5°	219.8	218.1	215.1	211.0	220.9	285.0	652.0	743.0	863.8	1022.0	1191.2
75°	197.5	195.3	191.7	186.5	193.4	215.1	313.1	351.3	410.2	494.3	588.7
77.5°	174.4	171.7	168.4	164.5	173.3	167.3	183.5	197.2	219.8	246.8	282.2
80°	148.3	145.8	144.7	142.8	153.2	127.4	129.6	138.1	151.3	165.9	182.4
82.5°	116.1	116.1	120.5	121.3	132.9	91.6	96.8	104.3	111.1	118.8	126.5
85°	76.5	77.0	91.9	97.7	104.8	61.6	72.6	75.1	80.6	85.0	88.3
87.5°	23.9	25.9	56.1	62.2	60.2	34.9	44.6	45.7	49.5	52.5	55.3
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°	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3
2.5°	524.1	520.8	517.7	517.5	515.3	512.2	513.3	508.6	508.9	506.4	503.7
5°	616.2	614.0	603.0	600.0	591.7	586.5	585.7	574.7	573.3	567.0	560.1
7.5°	748.8	741.7	726.2	718.8	704.8	694.3	689.4	674.8	667.7	651.1	643.7
10°	887.7	878.6	859.7	849.2	835.7	819.0	809.9	788.7	780.4	765.3	747.2
12.5°	1016.5	1007.4	987.9	979.9	962.0	944.1	934.2	910.3	899.6	875.3	861.0
15°	1135.6	1126.5	1109.5	1101.2	1083.3	1068.7	1055.5	1031.9	1019.2	996.7	978.0
17.5°	1251.1	1241.5	1226.6	1219.2	1201.9	1187.0	1172.7	1150.4	1137.5	1115.0	1098.2
20°	1358.4	1351.3	1340.5	1330.6	1313.3	1299.8	1282.8	1263.5	1244.8	1228.3	1212.3
22.5°	1451.9	1449.2	1437.6	1433.2	1418.4	1406.8	1392.0	1373.0	1359.5	1338.6	1323.8
25°	1532.5	1531.7	1526.2	1524.8	1514.4	1503.4	1500.1	1484.4	1472.0	1453.6	1438.2
27.5°	1601.9	1602.7	1601.3	1605.2	1602.4	1597.5	1597.7	1592.5	1585.4	1570.0	1556.5
30°	1678.9	1674.5	1677.0	1682.5	1684.1	1684.7	1693.8	1696.8	1696.2	1686.1	1679.4
32.5°	1787.8	1777.4	1767.8	1766.9	1772.4	1774.6	1790.0	1798.0	1804.9	1807.4	1808.5
35°	1926.8	1905.9	1885.8	1875.0	1865.7	1868.2	1879.2	1892.1	1907.2	1917.7	1930.1
37.5°	2101.7	2076.1	2040.6	2015.3	2009.0	1995.3	2002.4	2012.6	2027.4	2043.7	2065.1
40°	2313.8	2275.0	2235.1	2201.6	2183.4	2158.1	2157.8	2155.9	2165.0	2180.1	2210.4
42.5°	2517.9	2483.5	2441.2	2406.0	2382.3	2348.5	2341.6	2323.7	2327.8	2341.0	2370.5
45°	2709.1	2680.8	2654.9	2614.2	2594.1	2557.5	2546.0	2524.8	2513.0	2519.0	2548.5
47.5°	2894.3	2876.1	2849.1	2822.7	2807.3	2774.6	2759.7	2744.6	2729.5	2728.9	2759.7
50°	3255.2	3245.6	3213.6	3186.1	3193.6	3153.4	3155.9	3115.2	3133.6	3135.8	3200.4
52.5°	3594.4	3627.9	3651.6	3680.5	3699.2	3702.8	3715.1	3733.6	3755.9	3799.9	3859.8
55°	3788.6	3830.7	3855.2	3877.2	3913.5	3921.2	3941.8	3966.3	3985.8	4035.4	4086.2
57.5°	4019.4	4097.5	4135.5	4170.4	4219.4	4238.1	4272.5	4299.2	4324.5	4383.1	4444.7
60°	4161.6	4256.8	4334.1	4389.4	4450.7	4494.8	4546.8	4588.6	4648.0	4718.1	4810.0
62.5°	4048.6	4188.3	4290.9	4385.8	4469.2	4553.4	4627.9	4706.0	4796.3	4902.4	5044.9
65°	3598.2	3740.5	3916.2	4014.7	4125.0	4254.9	4368.2	4494.8	4617.7	4772.3	4983.1
67.5°	2896.7	3062.1	3259.6	3358.9	3485.7	3630.7	3757.8	3912.4	4056.0	4243.3	4503.8
70°	2088.0	2301.7	2467.9	2571.6	2719.6	2869.0	2991.6	3171.6	3290.4	3482.4	3751.7
72.5°	1322.1	1490.7	1694.3	1825.0	1956.5	2107.8	2233.2	2388.4	2499.2	2674.2	2918.2
75°	710.8	835.2	1014.0	1138.1	1278.9	1408.2	1555.1	1659.1	1741.1	1879.4	2077.5
77.5°	333.1	408.8	499.3	594.8	690.2	789.8	886.6	970.8	1006.0	1085.2	1202.2
80°	202.2	226.7	253.1	282.5	322.4	354.6	397.2	428.0	430.2	455.3	491.0
82.5°	135.1	144.1	152.1	159.6	169.7	177.7	186.8	197.5	201.9	207.7	219.2
85°	92.2	96.6	98.2	102.9	101.8	104.5	108.1	111.7	113.6	113.3	118.6
87.5°	56.7	58.9	60.0	61.1	60.2	59.1	60.8	62.7	63.3	61.6	62.2
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°	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3
2.5°	504.2	501.8	499.3	497.6	497.1	482.5	476.2	472.1	463.3	456.1	450.3
5°	556.2	551.0	546.9	541.9	539.2	502.3	488.8	479.5	464.1	455.0	446.8
7.5°	639.9	625.3	616.8	607.1	598.9	532.3	510.0	495.4	474.0	461.9	452.5
10°	734.8	719.6	706.2	691.3	678.4	572.2	539.7	517.2	488.8	473.2	460.8
12.5°	840.7	825.8	808.8	789.8	773.3	622.8	577.7	545.5	506.7	485.8	468.5
15°	965.9	939.7	919.1	897.1	877.8	683.3	622.0	577.4	525.7	497.4	474.3
17.5°	1082.2	1054.7	1026.7	1007.4	985.1	751.3	666.6	609.9	541.4	504.8	475.4
20°	1195.8	1165.8	1141.6	1115.8	1092.4	821.7	714.1	638.5	551.6	505.1	468.5
22.5°	1296.0	1277.3	1250.3	1222.2	1198.6	892.1	758.7	662.7	555.4	498.7	456.4
25°	1409.9	1390.0	1357.0	1333.4	1307.0	963.9	802.4	681.4	553.2	486.9	437.7
27.5°	1531.4	1509.4	1475.6	1450.8	1418.9	1038.5	842.6	694.9	545.0	467.7	412.6
30°	1658.3	1638.2	1604.9	1579.9	1547.7	1117.4	887.5	704.0	528.5	441.0	383.5
32.5°	1794.4	1777.7	1744.6	1718.5	1684.1	1203.0	929.3	706.7	503.4	409.3	352.7
35°	1923.7	1912.2	1884.4	1859.9	1824.1	1283.9	973.6	705.3	473.7	374.7	324.6
37.5°	2069.3	2062.4	2048.6	2017.5	1973.8	1393.6	1026.7	699.6	437.4	340.3	303.2
40°	2224.4	2225.0	2210.1	2188.9	2148.2	1526.8	1089.9	688.3	397.8	310.0	283.6
42.5°	2388.6	2397.2	2390.0	2374.9	2335.8	1661.0	1165.6	674.5	359.3	280.6	264.4
45°	2576.8	2587.3	2598.3	2576.0	2538.0	1838.2	1265.2	656.6	317.7	256.1	251.2
47.5°	2793.9	2810.4	2820.3	2820.5	2782.6	2057.7	1426.9	645.9	280.9	239.6	244.8
50°	3251.9	3257.1	3280.5	3321.2	3292.0	2565.8	1709.4	639.3	255.8	229.4	240.2
52.5°	3911.8	3969.3	4009.8	4007.0	3967.4	2888.5	1865.1	605.2	241.0	225.6	238.0
55°	4180.6	4252.4	4327.2	4347.0	4316.2	3163.9	2012.3	571.1	233.8	228.3	238.8
57.5°	4538.8	4659.8	4762.4	4805.6	4761.0	3516.2	2206.0	553.2	231.6	235.8	244.0
60°	4957.2	5106.8	5241.6	5319.2	5319.2	3921.2	2406.8	545.8	228.6	246.8	252.8
62.5°	5226.0	5445.8	5649.3	5762.9	5759.6	4203.2	2495.9	520.5	221.7	254.5	264.9
65°	5227.1	5488.4	5747.8	5875.5	5882.1	4168.5	2348.8	459.7	209.1	255.6	277.0
67.5°	4791.3	5070.0	5372.3	5515.1	5548.1	3837.3	2033.2	378.0	188.4	244.6	281.4
70°	4046.6	4318.7	4627.4	4767.7	4826.2	3271.1	1637.6	291.3	162.0	220.4	272.3
72.5°	3188.1	3454.9	3669.8	3772.4	3818.0	2500.3	1192.5	220.1	132.9	185.7	247.9
75°	2257.1	2457.4	2571.6	2594.4	2601.6	1507.2	724.6	163.7	109.5	144.4	209.3
77.5°	1274.0	1359.8	1350.4	1360.6	1275.9	581.8	315.5	117.2	90.2	109.8	162.3
80°	497.4	512.8	481.7	472.1	433.0	216.5	139.2	81.7	72.1	83.1	113.6
82.5°	219.2	226.4	219.8	221.5	211.8	111.7	83.4	59.1	55.0	60.8	75.4
85°	120.8	123.0	122.4	126.0	120.8	44.6	39.6	36.3	38.5	41.3	48.4
87.5°	58.9	59.4	57.5	60.5	58.6	22.6	19.5	20.6	22.6	23.1	23.1
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):

	135°	145°	155°	165°	175°	180°
0°	472.3	472.3	472.3	472.3	472.3	472.3
2.5°	446.2	444.0	444.3	443.7	442.6	442.6
5°	442.4	440.2	440.2	439.6	438.2	438.5
7.5°	446.2	442.6	441.3	439.3	437.4	437.4
10°	450.6	444.3	440.4	437.1	434.6	434.6
12.5°	453.9	444.0	437.7	433.3	430.8	430.8
15°	455.0	442.1	433.3	428.0	425.8	425.6
17.5°	451.4	434.6	423.9	417.9	415.1	414.3
20°	440.4	421.2	408.2	401.4	397.5	396.1
22.5°	423.9	401.9	386.8	379.6	374.7	373.9
25°	400.8	377.2	362.3	355.4	352.7	351.8
27.5°	373.9	351.8	339.2	334.8	332.3	332.0
30°	348.3	329.6	320.2	316.9	313.9	313.3
32.5°	324.3	312.5	308.9	304.3	297.1	296.3
35°	307.3	306.2	303.7	293.3	284.4	282.0
37.5°	296.8	307.0	294.4	273.7	267.4	266.8
40°	290.8	298.5	276.7	269.6	270.1	269.6
42.5°	277.0	285.0	277.3	274.0	276.2	276.7
45°	263.3	272.1	281.4	279.2	284.4	284.4
47.5°	255.6	268.8	281.1	281.1	288.8	291.6
50°	246.8	266.0	276.7	280.6	286.6	284.4
52.5°	246.2	261.3	270.4	277.3	280.0	277.6
55°	247.0	257.5	264.1	271.8	275.1	275.4
57.5°	248.1	255.3	259.7	263.3	273.2	273.2
60°	250.9	253.4	255.8	257.8	270.7	271.0
62.5°	255.3	251.4	250.9	252.8	269.3	268.2
65°	262.2	248.7	244.6	246.5	267.9	264.6
67.5°	271.5	244.6	236.6	238.0	266.8	259.7
70°	280.0	238.0	226.7	225.3	256.4	243.7
72.5°	280.9	230.3	212.9	208.8	222.8	210.7
75°	267.1	225.0	197.8	185.7	184.0	182.4
77.5°	240.7	222.0	180.2	161.2	157.9	159.0
80°	201.4	210.7	159.0	136.4	154.3	152.4
82.5°	150.5	186.0	135.1	120.8	120.5	106.5
85°	83.6	145.0	110.0	90.5	63.0	61.1
87.5°	23.4	80.6	77.0	51.2	34.9	36.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)