

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: P192189

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192189
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 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: 4278 lumens
Efficiency: N/A
Efficacy: 125.8 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

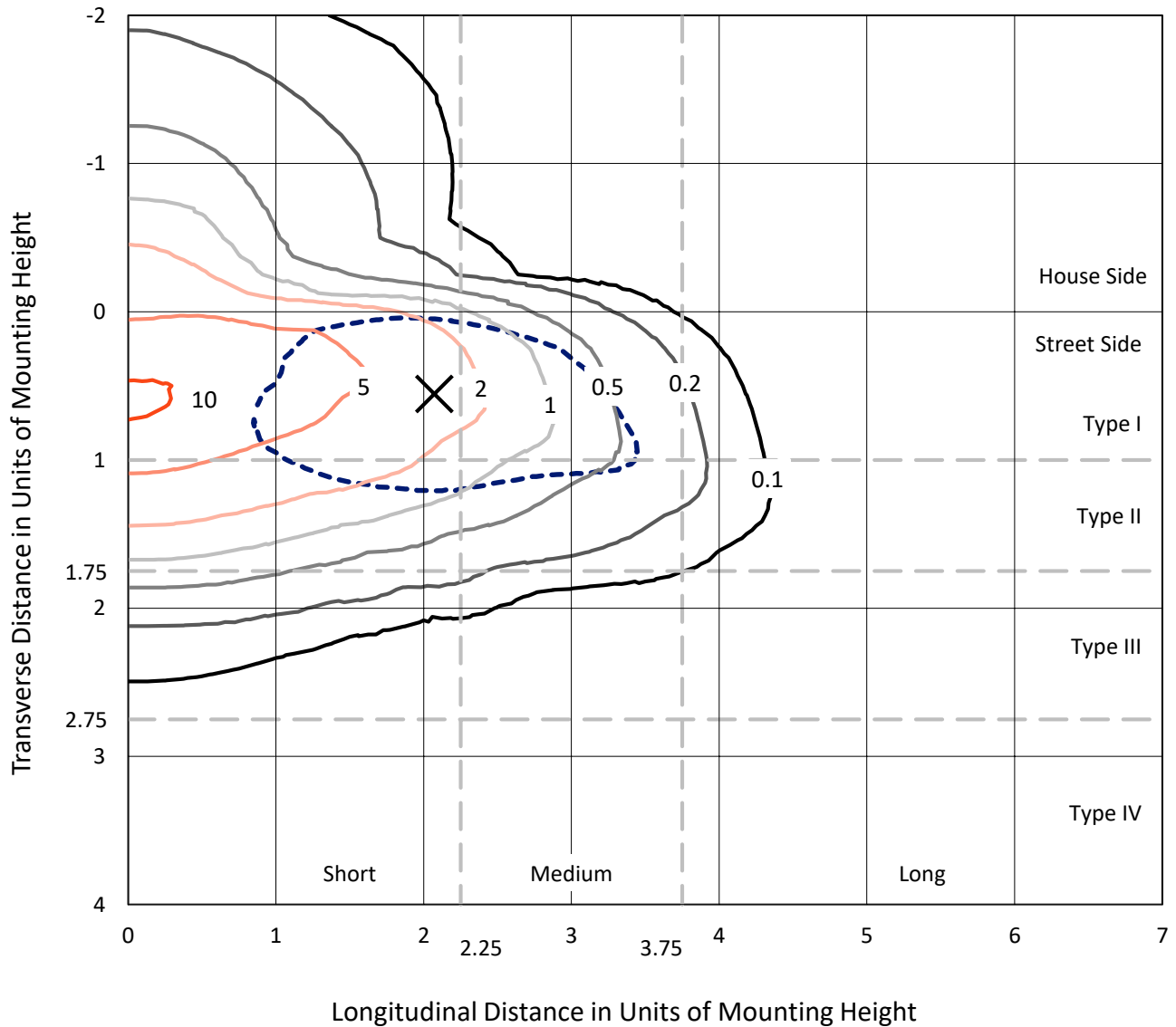


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Iso-Footcandle Lines of Horizontal Illumination

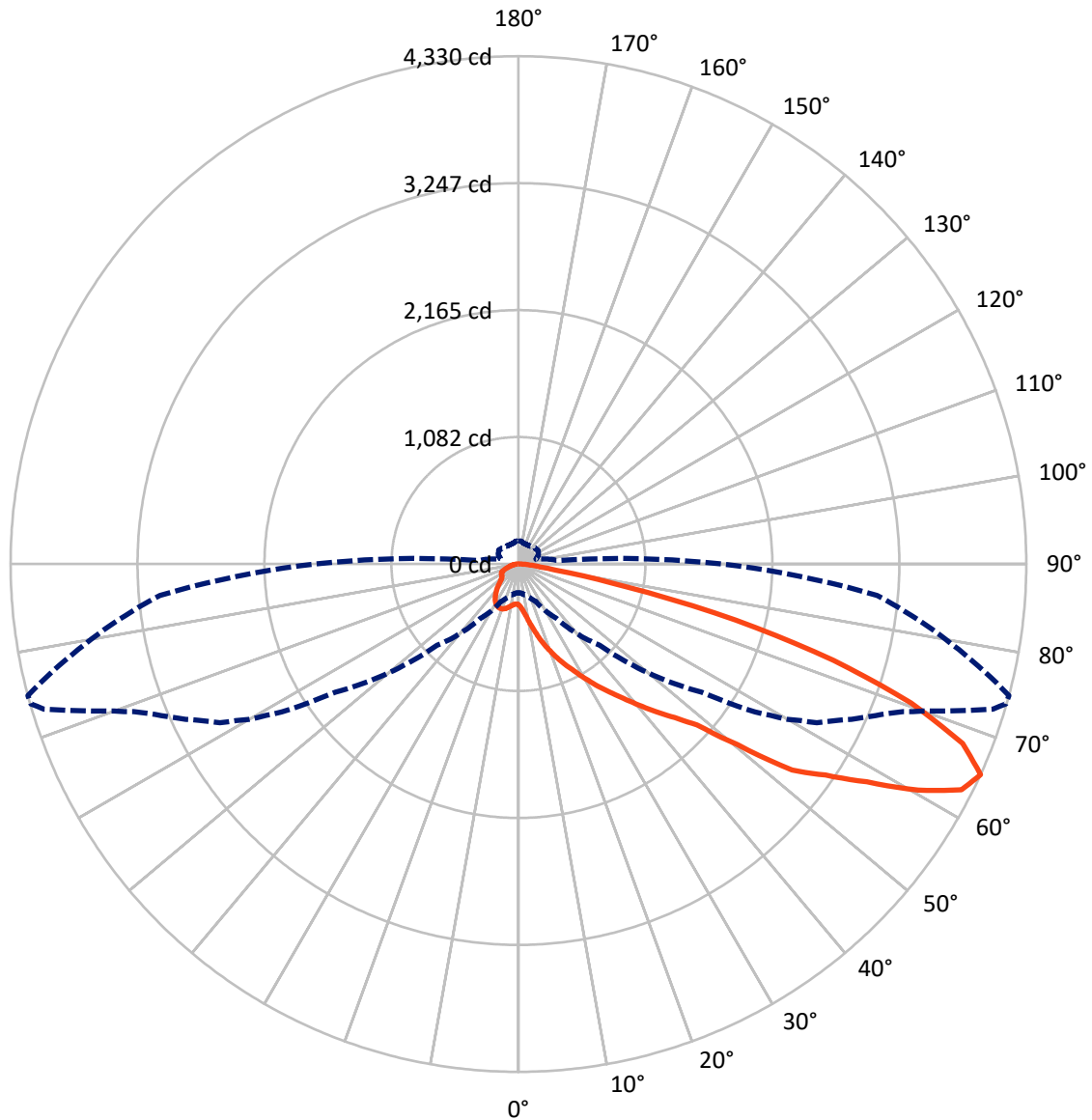
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 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	659.6	0.0	659.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3618.4	0.0	3618.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	4278.0	0.0	4278.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.0
10°-20°	167.9	3.9
20°-30°	344.5	8.1
30°-40°	579.6	13.5
40°-50°	800.8	18.7
50°-60°	999.7	23.4
60°-70°	899.6	21.0
70°-80°	377.1	8.8
80°-90°	65.9	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°	4278.0	100.0
0°-180°	4278.0	100.0



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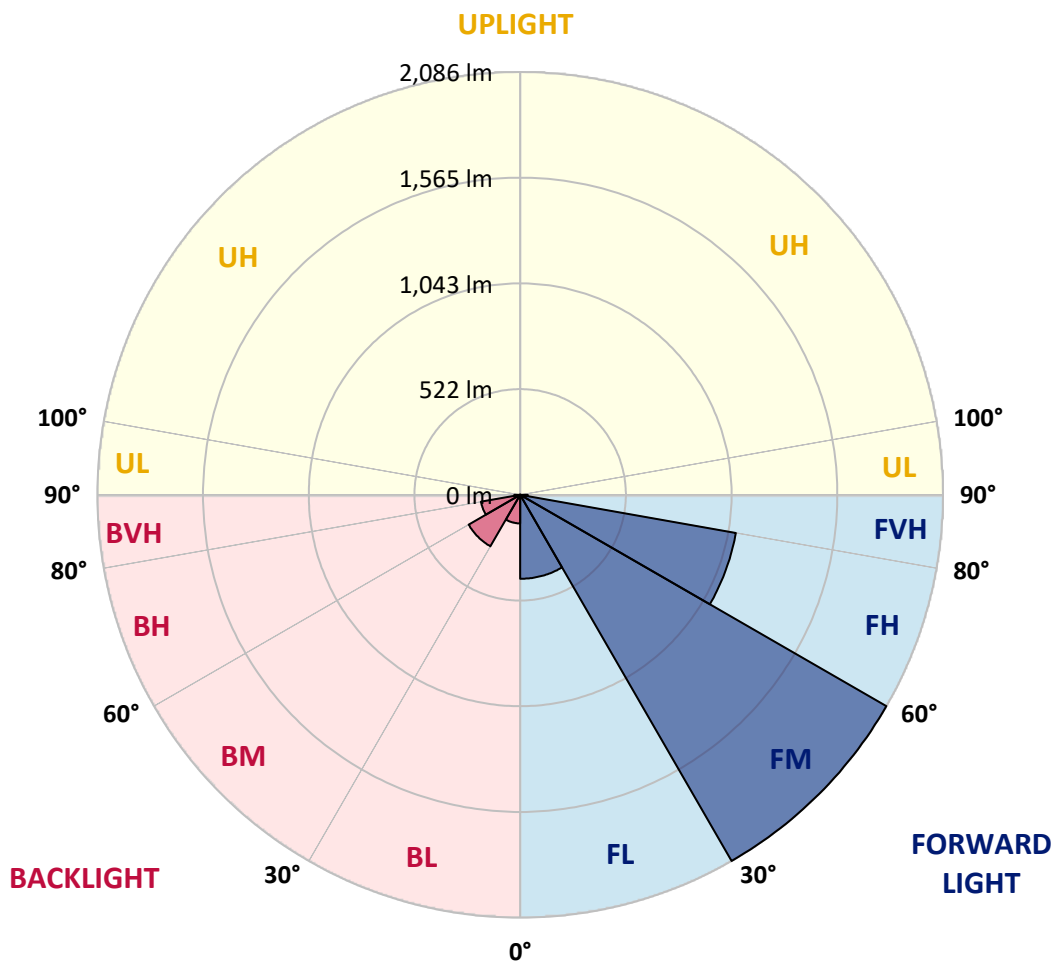
CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-7050-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.3	9.7			
FM (30°-60°)	2086.5	48.8			
FH (60°-80°)	1080.6	25.3			G1/1800
FVH (80°-90°)	37.0	0.9			G1/100
BL (0°-30°)	141.1	3.3	B1/500		
BM (30°-60°)	293.6	6.9	B1/1000		
BH (60°-80°)	196.1	4.6	B1/500		G1/500
BVH (80°-90°)	28.9	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°	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7
2.5°	441.4	436.6	437.8	429.7	419.8	406.8	392.4	392.2	392.4	391.0	385.7
5°	612.1	606.2	604.0	585.8	559.1	521.0	479.7	475.2	473.4	468.8	458.0
7.5°	736.6	733.4	730.0	716.2	691.9	649.4	593.9	584.4	575.3	573.0	560.9
10°	817.0	816.2	808.9	805.3	790.1	753.2	699.2	690.1	680.2	676.7	664.0
12.5°	880.6	880.4	877.0	878.0	864.8	838.1	791.5	783.2	775.9	765.4	756.3
15°	924.6	924.8	929.8	935.5	933.5	915.4	871.7	868.1	861.8	854.5	843.8
17.5°	960.6	961.6	966.9	977.2	988.3	986.9	952.3	949.3	943.8	933.9	928.2
20°	1042.0	1045.8	1035.7	1035.7	1036.9	1042.4	1025.8	1023.4	1015.7	1010.4	1006.0
22.5°	1179.5	1183.9	1161.1	1137.8	1114.9	1098.3	1081.7	1084.7	1079.5	1075.8	1073.2
25°	1358.1	1361.5	1324.5	1285.2	1238.6	1177.9	1136.8	1134.9	1132.1	1129.9	1128.7
27.5°	1526.1	1527.6	1492.5	1435.0	1381.0	1293.7	1192.6	1190.4	1187.0	1182.7	1179.1
30°	1669.9	1669.5	1633.5	1578.6	1520.7	1424.1	1277.5	1270.6	1260.5	1248.9	1240.0
32.5°	1794.4	1793.8	1754.3	1697.4	1636.7	1553.3	1393.7	1379.5	1363.7	1341.3	1327.7
35°	1892.4	1892.0	1854.8	1795.4	1725.8	1675.0	1527.0	1509.5	1489.5	1459.3	1438.5
37.5°	1929.5	1929.5	1908.6	1868.1	1806.6	1771.8	1675.0	1653.9	1632.4	1598.2	1574.7
40°	1907.8	1908.2	1912.7	1905.2	1875.2	1848.5	1813.1	1800.5	1782.1	1751.3	1726.8
42.5°	1835.1	1837.4	1866.9	1903.2	1918.2	1913.9	1935.6	1929.9	1916.9	1893.2	1873.8
45°	1743.0	1749.9	1782.3	1850.7	1930.1	1970.4	2038.2	2038.8	2036.4	2023.7	2008.7
47.5°	1616.4	1626.2	1668.9	1761.4	1902.2	2025.3	2142.5	2148.0	2153.0	2144.7	2137.9
50°	1448.4	1459.9	1523.9	1646.6	1845.3	2082.2	2339.5	2364.2	2387.3	2384.5	2389.1
52.5°	1268.4	1281.9	1360.3	1497.0	1747.5	2095.3	2465.5	2505.8	2546.1	2579.1	2614.1
55°	1106.0	1098.7	1177.1	1321.0	1586.7	2036.0	2578.7	2627.3	2672.2	2712.7	2754.4
57.5°	885.9	897.8	976.4	1118.7	1373.9	1868.5	2656.6	2727.7	2792.3	2859.3	2918.4
60°	647.6	659.5	744.7	889.3	1142.8	1614.6	2597.1	2704.8	2808.3	2910.9	2991.1
62.5°	391.0	399.9	475.0	612.7	881.2	1313.5	2331.8	2473.2	2625.4	2748.1	2871.1
65°	243.4	248.5	276.2	351.9	565.9	980.6	1905.2	2059.3	2223.3	2379.0	2506.8
67.5°	199.2	201.1	206.1	222.3	310.8	639.5	1418.0	1554.5	1702.5	1853.2	1995.3
70°	179.2	178.0	178.0	179.0	199.2	343.8	928.4	1017.3	1140.6	1271.6	1401.6
72.5°	161.8	160.6	158.3	155.3	162.6	209.8	479.9	546.9	635.8	752.2	876.8
75°	145.4	143.8	141.1	137.3	142.3	158.3	230.4	258.6	301.9	363.9	433.3
77.5°	128.4	126.4	123.9	121.1	127.6	123.1	135.1	145.2	161.8	181.6	207.8
80°	109.1	107.3	106.5	105.1	112.8	93.8	95.4	101.6	111.4	122.1	134.2
82.5°	85.4	85.4	88.7	89.3	97.8	67.4	71.3	76.7	81.8	87.5	93.1
85°	56.3	56.7	67.6	71.9	77.1	45.4	53.5	55.3	59.3	62.6	65.0
87.5°	17.6	19.0	41.3	45.8	44.3	25.7	32.8	33.6	36.4	38.7	40.7
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7
2.5°	385.7	383.3	381.1	380.9	379.3	377.0	377.8	374.4	374.6	372.8	370.8
5°	453.6	451.9	443.9	441.6	435.5	431.7	431.1	423.0	422.0	417.3	412.3
7.5°	551.2	545.9	534.6	529.1	518.8	511.1	507.4	496.7	491.4	479.3	473.8
10°	653.4	646.7	632.8	625.1	615.2	602.8	596.1	580.5	574.5	563.3	550.0
12.5°	748.2	741.5	727.1	721.3	708.1	694.9	687.6	670.0	662.1	644.3	633.8
15°	835.9	829.2	816.6	810.6	797.4	786.7	776.9	759.5	750.2	733.6	719.8
17.5°	920.9	913.8	902.9	897.4	884.7	873.7	863.2	846.8	837.3	820.7	808.3
20°	999.9	994.6	986.7	979.4	966.7	956.7	944.2	930.0	916.3	904.1	892.4
22.5°	1068.7	1066.7	1058.2	1055.0	1044.0	1035.5	1024.6	1010.6	1000.7	985.3	974.4
25°	1128.1	1127.4	1123.4	1122.4	1114.7	1106.6	1104.2	1092.6	1083.5	1069.9	1058.6
27.5°	1179.1	1179.7	1178.7	1181.5	1179.5	1175.8	1176.0	1172.2	1166.9	1155.6	1145.7
30°	1235.8	1232.5	1234.4	1238.4	1239.6	1240.0	1246.7	1248.9	1248.5	1241.0	1236.2
32.5°	1316.0	1308.3	1301.2	1300.6	1304.6	1306.2	1317.6	1323.5	1328.5	1330.3	1331.1
35°	1418.2	1402.8	1388.0	1380.1	1373.3	1375.1	1383.2	1392.7	1403.8	1411.5	1420.6
37.5°	1547.0	1528.2	1502.0	1483.4	1478.8	1468.6	1473.9	1481.4	1492.3	1504.3	1520.1
40°	1703.1	1674.6	1645.2	1620.5	1607.1	1588.5	1588.3	1586.9	1593.6	1604.7	1627.0
42.5°	1853.4	1828.0	1796.9	1770.9	1753.5	1728.6	1723.6	1710.4	1713.4	1723.2	1744.8
45°	1994.1	1973.2	1954.2	1924.2	1909.4	1882.5	1874.0	1858.4	1849.7	1854.2	1875.8
47.5°	2130.4	2117.0	2097.2	2077.7	2066.4	2042.3	2031.3	2020.2	2009.1	2008.7	2031.3
50°	2396.0	2388.9	2365.4	2345.2	2350.7	2321.1	2322.9	2293.0	2306.5	2308.1	2355.7
52.5°	2645.7	2670.4	2687.8	2709.1	2722.8	2725.5	2734.6	2748.1	2764.5	2796.9	2841.1
55°	2788.6	2819.6	2837.6	2853.8	2880.6	2886.2	2901.4	2919.5	2933.8	2970.3	3007.7
57.5°	2958.5	3016.0	3044.0	3069.7	3105.7	3119.5	3144.8	3164.5	3183.1	3226.2	3271.6
60°	3063.2	3133.3	3190.2	3230.9	3276.0	3308.4	3346.7	3377.5	3421.2	3472.8	3540.5
62.5°	2980.0	3082.9	3158.4	3228.2	3289.6	3351.6	3406.4	3463.9	3530.4	3608.5	3713.4
65°	2648.5	2753.2	2882.6	2955.1	3036.3	3131.9	3215.3	3308.4	3398.9	3512.7	3667.8
67.5°	2132.2	2253.9	2399.3	2472.4	2565.7	2672.4	2766.0	2879.8	2985.5	3123.4	3315.1
70°	1536.9	1694.2	1816.5	1892.8	2001.8	2111.7	2202.0	2334.5	2421.9	2563.3	2761.5
72.5°	973.2	1097.3	1247.1	1343.3	1440.1	1551.5	1643.8	1758.0	1839.6	1968.4	2148.0
75°	523.2	614.7	746.4	837.7	941.4	1036.5	1144.7	1221.2	1281.5	1383.4	1529.2
77.5°	245.2	300.9	367.5	437.8	508.0	581.3	652.6	714.6	740.5	798.8	884.9
80°	148.8	166.8	186.3	208.0	237.3	261.0	292.4	315.1	316.7	335.1	361.4
82.5°	99.4	106.1	112.0	117.4	124.9	130.8	137.5	145.4	148.6	152.9	161.4
85°	67.8	71.1	72.3	75.7	74.9	76.9	79.6	82.2	83.6	83.4	87.3
87.5°	41.7	43.3	44.1	45.0	44.3	43.5	44.7	46.2	46.6	45.4	45.8
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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CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7	347.7
2.5°	371.2	369.3	367.5	366.3	365.9	355.2	350.5	347.5	341.0	335.7	331.5
5°	409.4	405.6	402.5	398.9	396.9	369.7	359.8	352.9	341.6	334.9	328.8
7.5°	471.0	460.3	454.0	446.9	440.8	391.8	375.4	364.7	348.9	340.0	333.1
10°	540.8	529.7	519.8	508.8	499.3	421.2	397.3	380.7	359.8	348.3	339.2
12.5°	618.8	607.9	595.3	581.3	569.2	458.4	425.2	401.5	373.0	357.6	344.8
15°	710.9	691.7	676.5	660.3	646.1	503.0	457.8	425.0	387.0	366.1	349.1
17.5°	796.6	776.3	755.7	741.5	725.1	553.0	490.6	448.9	398.5	371.6	349.9
20°	880.2	858.1	840.3	821.3	804.1	604.8	525.7	470.0	406.0	371.8	344.8
22.5°	953.9	940.1	920.3	899.6	882.2	656.7	558.5	487.8	408.8	367.1	335.9
25°	1037.7	1023.2	998.9	981.5	962.0	709.5	590.7	501.6	407.2	358.4	322.2
27.5°	1127.2	1111.0	1086.1	1067.9	1044.4	764.4	620.2	511.5	401.1	344.2	303.7
30°	1220.6	1205.8	1181.3	1162.9	1139.2	822.5	653.2	518.2	389.0	324.6	282.3
32.5°	1320.8	1308.5	1284.2	1264.9	1239.6	885.5	684.0	520.2	370.6	301.3	259.6
35°	1416.0	1407.5	1387.0	1369.0	1342.7	945.0	716.6	519.2	348.7	275.8	238.9
37.5°	1523.1	1518.0	1507.9	1485.0	1452.8	1025.8	755.7	514.9	322.0	250.5	223.1
40°	1637.3	1637.7	1626.8	1611.2	1581.2	1123.8	802.3	506.6	292.8	228.2	208.8
42.5°	1758.2	1764.5	1759.2	1748.1	1719.3	1222.6	857.9	496.5	264.4	206.5	194.6
45°	1896.7	1904.4	1912.5	1896.1	1868.1	1353.0	931.2	483.3	233.9	188.5	184.9
47.5°	2056.5	2068.6	2075.9	2076.1	2048.2	1514.6	1050.3	475.4	206.7	176.4	180.2
50°	2393.6	2397.4	2414.7	2444.6	2423.2	1888.6	1258.3	470.6	188.3	168.9	176.8
52.5°	2879.4	2921.7	2951.4	2949.4	2920.3	2126.1	1372.9	445.5	177.4	166.0	175.2
55°	3077.2	3130.0	3185.1	3199.7	3177.0	2328.8	1481.2	420.4	172.1	168.1	175.8
57.5°	3340.8	3429.9	3505.4	3537.2	3504.4	2588.2	1623.7	407.2	170.5	173.5	179.6
60°	3648.8	3759.0	3858.2	3915.3	3915.3	2886.2	1771.6	401.7	168.3	181.6	186.1
62.5°	3846.6	4008.4	4158.3	4241.9	4239.5	3093.8	1837.2	383.1	163.2	187.3	195.0
65°	3847.4	4039.8	4230.8	4324.7	4329.6	3068.3	1728.8	338.4	153.9	188.1	203.9
67.5°	3526.7	3731.8	3954.4	4059.4	4083.7	2824.5	1496.6	278.2	138.7	180.0	207.1
70°	2978.6	3178.8	3406.0	3509.3	3552.4	2407.8	1205.4	214.4	119.3	162.2	200.5
72.5°	2346.6	2543.0	2701.2	2776.7	2810.3	1840.4	877.8	162.0	97.8	136.7	182.4
75°	1661.4	1808.8	1892.8	1909.7	1914.9	1109.4	533.3	120.5	80.6	106.3	154.1
77.5°	937.7	1000.9	994.0	1001.5	939.1	428.3	232.3	86.3	66.4	80.8	119.5
80°	366.1	377.4	354.6	347.5	318.7	159.4	102.5	60.1	53.1	61.2	83.6
82.5°	161.4	166.6	161.8	163.0	155.9	82.2	61.4	43.5	40.5	44.7	55.5
85°	88.9	90.5	90.1	92.7	88.9	32.8	29.2	26.7	28.3	30.4	35.6
87.5°	43.3	43.7	42.3	44.5	43.1	16.6	14.4	15.2	16.6	17.0	17.0
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°	347.7	347.7	347.7	347.7	347.7	347.7
2.5°	328.4	326.8	327.0	326.6	325.8	325.8
5°	325.6	324.0	324.0	323.6	322.6	322.8
7.5°	328.4	325.8	324.8	323.4	322.0	322.0
10°	331.7	327.0	324.2	321.8	319.9	319.9
12.5°	334.1	326.8	322.2	318.9	317.1	317.1
15°	334.9	325.4	318.9	315.1	313.4	313.2
17.5°	332.3	319.9	312.0	307.6	305.6	304.9
20°	324.2	310.0	300.5	295.4	292.6	291.6
22.5°	312.0	295.8	284.7	279.4	275.8	275.2
25°	295.0	277.6	266.7	261.6	259.6	259.0
27.5°	275.2	259.0	249.7	246.4	244.6	244.4
30°	256.3	242.6	235.7	233.3	231.0	230.6
32.5°	238.7	230.0	227.4	224.0	218.7	218.1
35°	226.2	225.4	223.5	215.9	209.4	207.5
37.5°	218.5	226.0	216.7	201.5	196.8	196.4
40°	214.0	219.7	203.7	198.4	198.8	198.4
42.5°	203.9	209.8	204.1	201.7	203.3	203.7
45°	193.8	200.3	207.1	205.5	209.4	209.4
47.5°	188.1	197.8	206.9	206.9	212.6	214.6
50°	181.6	195.8	203.7	206.5	211.0	209.4
52.5°	181.2	192.4	199.0	204.1	206.1	204.3
55°	181.8	189.5	194.4	200.1	202.5	202.7
57.5°	182.6	187.9	191.1	193.8	201.1	201.1
60°	184.7	186.5	188.3	189.7	199.2	199.4
62.5°	187.9	185.1	184.7	186.1	198.2	197.4
65°	193.0	183.0	180.0	181.4	197.2	194.8
67.5°	199.9	180.0	174.1	175.2	196.4	191.1
70°	206.1	175.2	166.8	165.8	188.7	179.4
72.5°	206.7	169.5	156.7	153.7	164.0	155.1
75°	196.6	165.6	145.6	136.7	135.5	134.2
77.5°	177.2	163.4	132.6	118.7	116.2	117.0
80°	148.2	155.1	117.0	100.4	113.6	112.2
82.5°	110.8	136.9	99.4	88.9	88.7	78.4
85°	61.6	106.7	81.0	66.6	46.4	45.0
87.5°	17.2	59.3	56.7	37.7	25.7	26.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

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