

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: P191289

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
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-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5603.7 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

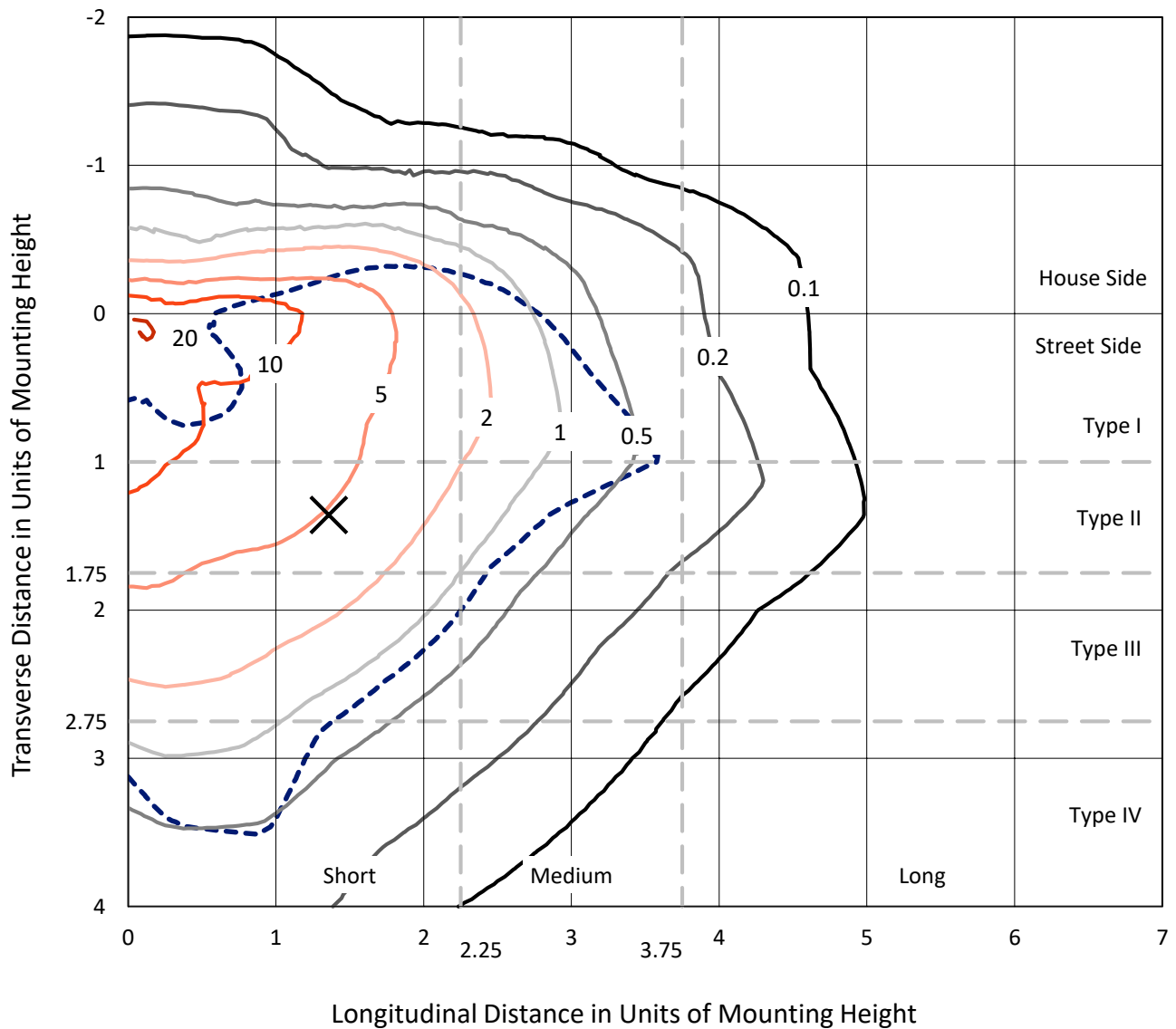


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Iso-Footcandle Lines of Horizontal Illumination

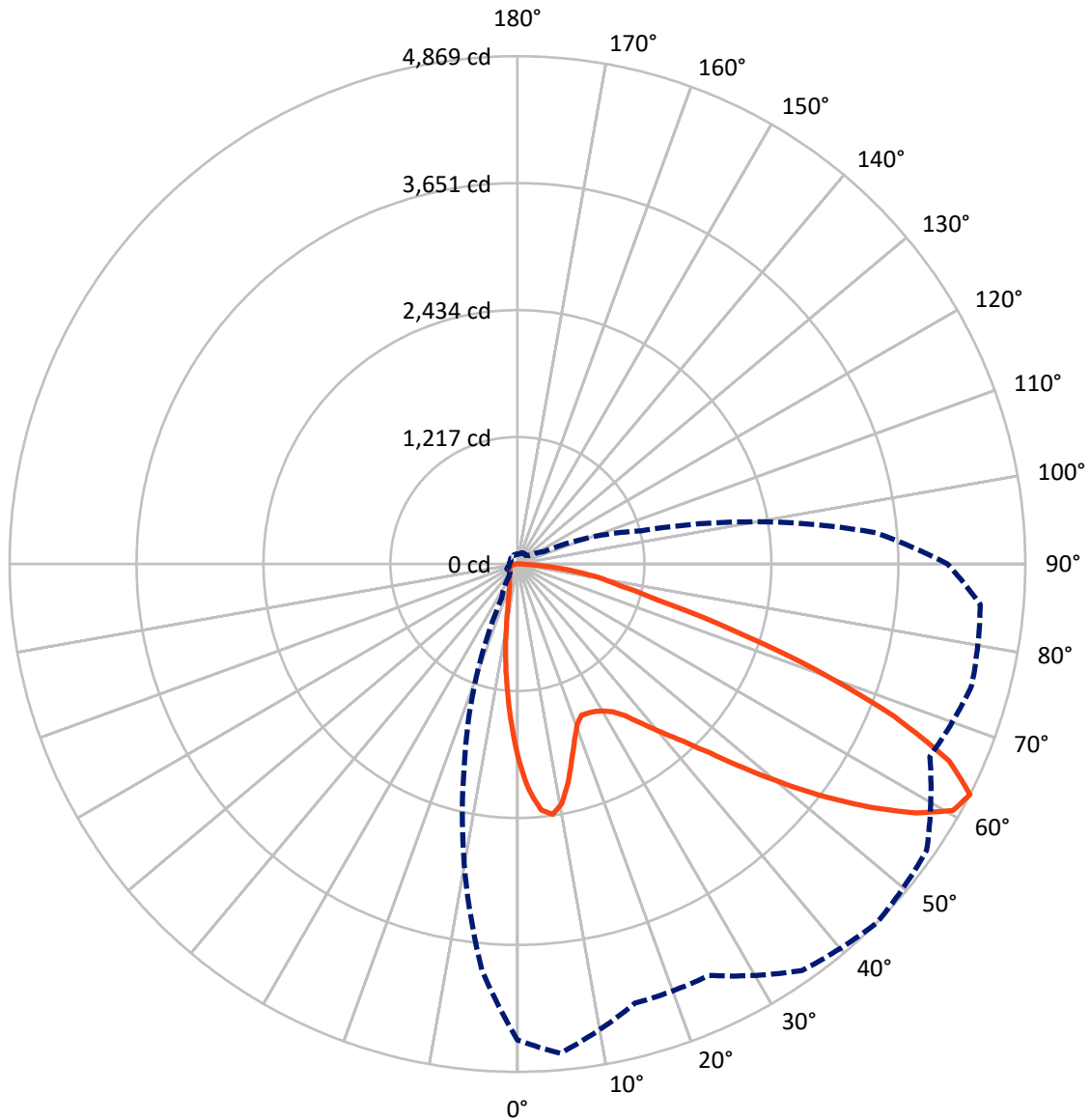
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	927.3	0.0	927.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4676.4	0.0	4676.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	5603.7	0.0	5603.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	2.5
10°-20°	252.7	4.5
20°-30°	368.5	6.6
30°-40°	567.5	10.1
40°-50°	835.2	14.9
50°-60°	1225.1	21.9
60°-70°	1369.4	24.4
70°-80°	670.5	12.0
80°-90°	177.0	3.2
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°	5603.7	100.0
0°-180°	5603.7	100.0

Coefficient of Utilization



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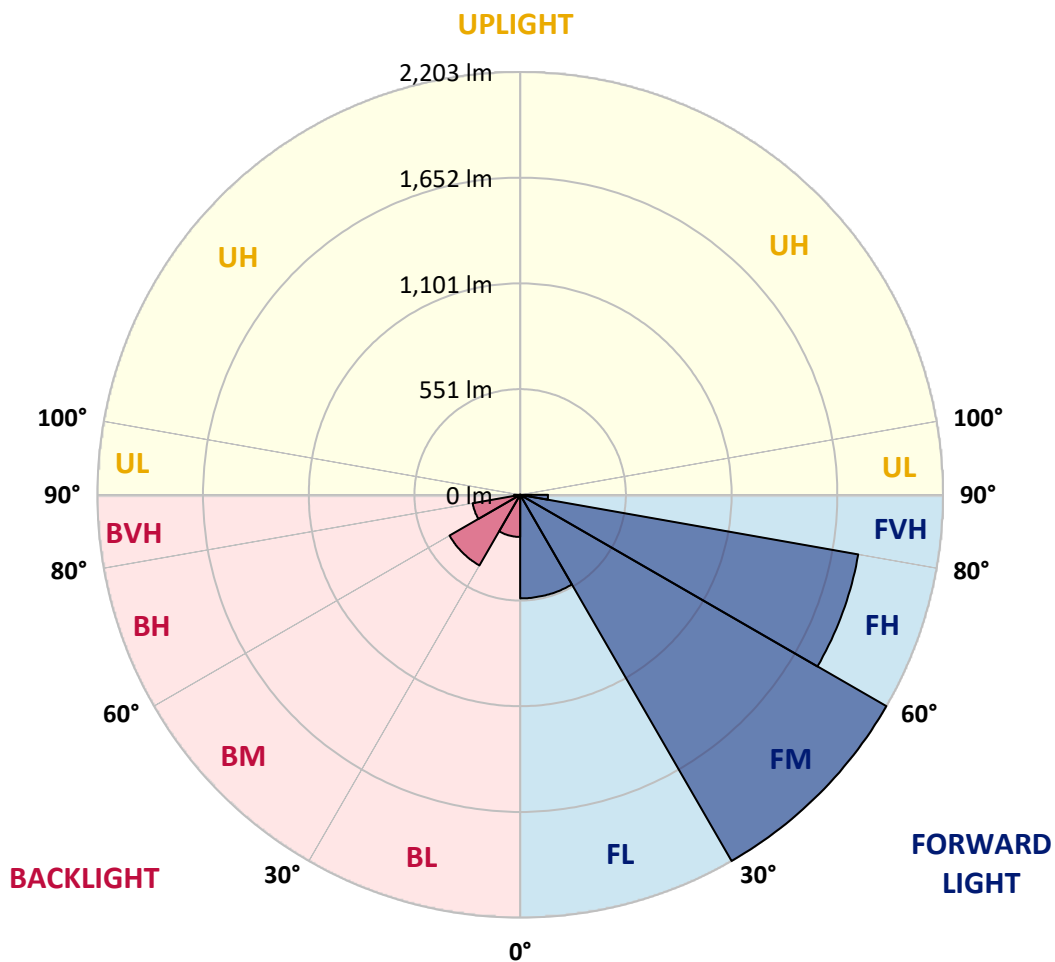
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.6	9.6			
FM	(30°-60°)	2202.9	39.3			
FH	(60°-80°)	1788.5	31.9			G1/1800
FVH	(80°-90°)	145.4	2.6			G2/225
BL	(0°-30°)	219.4	3.9	B1/500		
BM	(30°-60°)	424.9	7.6	B1/1000		
BH	(60°-80°)	251.4	4.5	B1/500		G1/500
BVH	(80°-90°)	31.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1967.1	1998.6	2059.9	2105.7	2161.6	2174.5	2192.4	2174.8	2143.7	2102.4	2088.9
5°	1849.8	1917.0	2065.7	2196.7	2313.1	2367.3	2382.5	2337.7	2247.5	2128.9	2056.5
7.5°	1661.6	1757.1	1958.5	2151.4	2322.9	2424.3	2421.8	2318.0	2152.0	1958.8	1842.7
10°	1499.2	1608.3	1839.4	2055.0	2237.0	2335.3	2297.3	2164.7	1966.5	1744.1	1618.2
12.5°	1408.4	1515.3	1749.7	1966.2	2118.4	2152.3	2123.3	1993.3	1806.6	1581.8	1471.5
15°	1392.6	1510.1	1714.0	1890.2	1975.5	1946.0	1911.4	1853.2	1721.3	1529.4	1414.5
17.5°	1460.8	1590.1	1755.0	1837.2	1822.7	1771.2	1761.4	1767.9	1736.2	1587.6	1455.2
20°	1591.4	1746.6	1852.6	1812.3	1706.6	1635.7	1638.2	1737.1	1831.0	1735.2	1583.9
22.5°	1774.6	1951.8	1993.3	1825.5	1657.6	1573.5	1593.9	1754.1	1982.3	1950.9	1757.7
25°	2011.8	2173.3	2143.4	1873.5	1662.5	1581.2	1597.5	1812.6	2160.9	2166.5	1972.8
27.5°	2241.6	2391.4	2269.3	1937.3	1682.9	1599.4	1621.0	1904.6	2331.6	2400.6	2218.6
30°	2420.9	2525.1	2319.2	1995.5	1722.9	1634.8	1661.6	1992.1	2409.3	2558.6	2407.7
32.5°	2569.4	2644.2	2398.7	2067.6	1796.5	1690.5	1737.7	2098.4	2521.1	2709.0	2592.8
35°	2759.1	2780.4	2497.6	2148.0	1910.2	1787.6	1846.1	2202.5	2627.7	2860.8	2775.2
37.5°	2981.6	2954.2	2590.9	2258.0	2057.2	1939.4	1987.8	2316.8	2715.4	3033.0	2961.5
40°	3201.5	3135.5	2708.1	2428.6	2271.6	2118.4	2175.7	2438.8	2797.4	3205.5	3143.6
42.5°	3388.5	3290.8	2823.5	2616.2	2471.1	2315.9	2384.3	2561.7	2875.6	3352.7	3301.6
45°	3526.8	3405.4	2933.5	2796.4	2746.2	2578.3	2610.7	2702.4	2960.3	3475.7	3431.6
47.5°	3650.3	3520.6	3057.9	2978.2	2986.8	2919.6	2867.5	2866.3	3060.2	3576.1	3554.5
50°	3815.7	3680.5	3191.6	3165.4	3347.8	3303.1	3188.2	3057.6	3186.4	3690.1	3687.6
52.5°	4043.7	3933.8	3354.9	3367.2	3684.9	3714.1	3571.7	3287.5	3384.1	3899.2	3884.5
55°	4313.3	4249.1	3577.4	3599.2	4098.2	4119.2	3977.7	3574.8	3675.0	4202.1	4161.1
57.5°	4523.6	4510.1	3821.3	3877.7	4406.9	4501.2	4371.2	3907.6	4002.7	4457.1	4354.2
60°	4607.4	4673.0	4081.0	4158.6	4692.5	4796.8	4682.9	4199.8	4293.2	4562.8	4341.0
62.5°	4562.2	4708.7	4357.6	4351.1	4756.2	4868.6	4788.5	4362.5	4508.6	4453.7	4121.4
65°	4353.0	4580.3	4518.1	4301.5	4538.1	4547.3	4521.4	4289.8	4559.4	4109.0	3696.8
67.5°	3897.3	4224.5	4306.7	3876.5	3949.7	3889.7	3846.2	3891.8	4294.4	3592.4	3106.9
70°	3174.4	3666.7	3706.0	3100.5	3067.2	3026.8	2940.3	3190.7	3771.7	2944.3	2465.3
72.5°	2334.1	2851.6	2972.6	2274.0	2120.0	2128.2	2059.9	2404.5	3066.6	2187.1	1840.6
75°	1596.9	2064.8	2325.8	1586.7	1402.0	1405.3	1396.6	1703.8	2442.5	1521.4	1377.3
77.5°	1166.6	1475.2	1754.1	1066.7	1035.6	1016.5	1011.9	1192.1	1872.6	1104.7	1069.5
80°	936.1	1089.9	1178.2	739.3	795.0	793.5	767.9	819.7	1222.9	808.0	799.9
82.5°	649.4	837.6	954.6	579.4	536.6	527.6	533.9	610.5	864.4	552.3	525.2
85°	342.6	556.3	945.4	513.5	318.5	254.1	316.1	499.9	748.9	292.7	256.2
87.5°	43.8	160.8	625.9	204.9	125.7	67.7	150.1	281.5	480.9	59.7	52.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	2054.1	2013.1	1959.5	1909.8	1858.4	1807.2	1740.4	1698.5	1669.6	1664.0	1651.8
5°	2004.2	1868.0	1765.1	1676.1	1595.4	1481.3	1418.2	1365.8	1337.8	1335.1	1328.3
7.5°	1774.0	1586.1	1447.2	1321.2	1206.9	1114.8	1013.1	965.8	946.3	950.9	955.5
10°	1534.6	1324.6	1165.0	1036.2	935.5	857.9	776.3	721.2	682.9	675.2	673.7
12.5°	1359.7	1129.3	974.4	883.4	805.6	732.5	646.0	580.9	531.4	514.4	503.1
15°	1285.7	1033.8	871.5	773.5	687.5	594.8	514.4	446.3	400.8	386.0	377.7
17.5°	1301.5	1007.3	800.6	675.2	565.3	468.5	367.2	308.9	281.5	274.5	274.5
20°	1384.1	1002.4	742.0	584.7	447.5	335.4	252.3	219.0	210.1	209.2	211.6
22.5°	1499.9	1019.7	698.4	506.2	347.8	244.9	196.5	184.2	180.2	181.2	183.9
25°	1672.4	1077.9	666.7	436.2	272.9	200.5	175.2	167.9	166.0	168.5	171.9
27.5°	1876.9	1136.1	646.9	383.5	230.4	183.3	166.6	159.0	160.2	163.3	166.3
30°	2056.5	1183.9	615.8	346.0	217.2	184.2	166.6	156.2	155.0	155.6	156.5
32.5°	2217.7	1216.2	579.4	310.2	187.3	163.6	155.6	154.1	147.2	144.7	145.1
35°	2356.6	1216.2	557.6	289.3	167.9	145.1	132.2	124.5	121.0	121.3	124.8
37.5°	2490.6	1191.8	546.8	277.5	157.4	138.0	126.6	119.8	115.2	114.3	114.9
40°	2608.8	1156.4	534.5	272.6	149.4	133.7	123.0	117.3	112.4	110.9	111.2
42.5°	2703.7	1127.7	520.9	266.2	144.4	130.6	120.4	115.5	110.0	108.4	108.1
45°	2806.3	1118.2	503.1	253.2	146.9	130.9	119.8	114.6	109.0	107.2	106.6
47.5°	2941.5	1148.1	484.6	237.8	152.2	132.5	120.7	114.6	108.7	107.2	106.6
50°	3111.8	1218.3	461.1	215.3	146.9	136.8	120.4	113.6	108.7	107.2	106.0
52.5°	3330.6	1313.2	430.4	189.5	143.8	147.2	119.8	111.8	107.2	105.1	102.9
55°	3596.4	1390.8	393.6	168.2	136.8	144.4	118.9	109.7	104.8	101.7	99.8
57.5°	3791.1	1418.8	346.6	154.4	126.9	139.8	117.6	106.9	101.7	99.2	96.8
60°	3752.6	1364.6	306.8	145.7	121.0	126.3	116.7	104.4	98.9	97.1	94.8
62.5°	3444.3	1222.9	281.2	141.7	117.3	115.2	117.6	102.0	96.5	94.5	93.9
65°	2981.9	1013.7	271.1	140.8	114.3	108.7	109.4	99.2	93.6	92.1	91.5
67.5°	2459.7	818.2	262.2	143.8	110.3	104.1	101.1	95.5	90.8	89.3	88.1
70°	1939.7	680.5	258.1	142.0	105.4	99.5	96.2	91.5	87.5	85.9	85.0
72.5°	1562.0	574.8	255.9	140.1	98.9	93.3	90.2	86.2	81.9	81.3	80.4
75°	1321.9	451.9	234.5	134.3	91.5	85.9	83.8	80.1	75.8	75.8	75.2
77.5°	1019.7	326.8	195.0	118.9	83.8	77.6	75.8	73.0	68.1	69.0	68.7
80°	753.2	213.2	152.5	98.6	74.3	68.4	67.4	64.7	59.4	60.7	60.7
82.5°	516.0	139.8	109.7	80.7	63.4	57.9	57.9	55.1	49.3	49.9	51.8
85°	259.1	96.2	81.9	62.5	49.3	46.5	46.5	44.4	38.5	38.8	41.3
87.5°	78.9	57.9	54.2	44.7	35.4	34.8	33.2	31.7	28.0	27.7	29.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1632.9	1615.3	1594.2	1547.3	1531.6	1530.6	1544.9	1530.0	1558.4	1546.4	1559.6
5°	1316.8	1299.7	1275.9	1216.2	1179.8	1155.1	1143.5	1109.0	1133.9	1115.7	1130.9
7.5°	968.5	972.5	956.8	921.7	842.5	802.8	779.4	758.4	776.6	774.7	803.7
10°	680.8	691.5	680.5	645.1	580.9	559.1	563.4	571.7	595.5	607.7	652.4
12.5°	490.1	489.5	482.4	450.7	408.5	410.9	428.5	442.9	464.8	477.8	523.3
15°	365.9	360.4	357.3	331.4	307.4	312.7	321.3	322.8	336.7	344.4	381.4
17.5°	276.6	279.4	282.7	264.3	246.1	242.7	236.0	227.6	231.7	233.2	251.6
20°	219.6	230.7	239.1	226.1	207.7	197.7	189.1	183.6	183.6	183.3	188.5
22.5°	191.9	199.9	208.9	199.9	183.3	174.6	169.7	165.4	164.8	164.8	169.7
25°	176.9	182.7	191.3	185.2	172.8	166.3	161.7	156.2	154.1	153.4	156.8
27.5°	169.4	171.9	176.2	170.6	160.2	157.1	155.9	151.0	148.1	146.6	150.1
30°	156.8	156.2	156.5	151.0	142.6	142.3	144.4	145.4	144.4	144.1	149.4
32.5°	145.1	143.8	143.5	138.6	130.9	129.1	130.9	132.8	134.9	138.0	144.1
35°	130.3	133.4	135.2	130.9	121.6	116.1	114.0	110.6	108.7	108.7	115.8
37.5°	118.6	125.7	128.5	124.5	114.3	106.6	102.9	102.3	102.6	103.8	110.6
40°	114.6	119.8	122.2	118.3	108.1	101.1	98.9	98.3	98.9	100.8	107.5
42.5°	112.1	115.8	115.5	110.6	102.3	97.4	96.2	95.5	96.2	98.0	105.4
45°	110.0	112.4	110.0	104.1	96.5	93.9	94.2	93.9	94.5	96.5	103.5
47.5°	108.1	109.0	106.0	100.1	92.1	91.5	92.7	93.6	94.2	95.9	103.2
50°	105.4	105.4	102.6	96.5	88.4	88.7	90.2	92.4	92.7	94.5	100.5
52.5°	102.0	101.7	99.8	93.9	85.3	86.2	86.2	88.7	89.3	91.5	97.7
55°	99.2	98.6	97.7	92.1	82.6	84.1	83.2	84.1	85.6	87.8	94.5
57.5°	96.8	95.5	95.5	90.5	80.4	81.0	78.9	80.1	81.9	83.8	90.8
60°	94.2	93.0	93.6	88.4	77.0	76.4	75.5	77.9	78.6	80.7	87.8
62.5°	91.5	90.5	90.8	85.9	74.6	73.0	73.0	75.2	75.5	78.6	85.3
65°	89.3	88.1	87.8	83.5	71.8	70.0	70.9	71.8	72.4	75.5	81.9
67.5°	87.2	84.7	84.7	81.3	68.7	66.8	68.7	68.4	69.4	72.1	77.3
70°	84.4	81.0	81.3	79.8	65.6	63.4	65.0	64.7	65.3	67.1	72.4
72.5°	80.1	77.3	77.9	77.3	62.5	59.4	60.0	60.0	60.0	61.6	67.1
75°	74.6	72.4	74.3	75.8	58.8	54.5	55.1	55.1	54.2	55.1	61.9
77.5°	67.7	66.5	72.7	70.6	54.5	49.3	49.3	48.7	46.9	48.1	55.4
80°	60.4	59.4	67.1	59.1	49.6	42.9	42.2	40.6	38.8	39.7	47.2
82.5°	52.7	51.8	56.4	45.3	42.9	35.4	33.9	31.1	29.3	30.2	36.9
85°	43.2	43.2	43.5	34.2	32.6	27.1	25.3	21.6	19.4	20.0	26.5
87.5°	30.8	31.7	29.3	23.4	19.4	15.1	13.9	11.7	9.8	11.4	13.9
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1627.4	1661.3	1699.8	1749.0	1791.3	1860.5	1927.1	1967.1
5°	1216.8	1273.2	1343.3	1433.7	1517.8	1644.0	1769.4	1849.8
7.5°	870.8	931.2	1007.0	1119.7	1238.7	1399.7	1565.5	1661.6
10°	720.6	782.5	846.2	922.3	1019.7	1194.9	1390.8	1499.2
12.5°	596.1	662.3	731.0	811.1	901.3	1057.8	1283.6	1408.4
15°	456.2	530.1	611.1	712.5	825.5	1006.4	1257.1	1392.6
17.5°	312.7	395.3	494.7	619.8	758.1	989.7	1304.6	1460.8
20°	215.3	275.4	381.7	528.3	694.7	987.6	1395.7	1591.4
22.5°	180.2	207.0	284.6	444.2	646.9	1014.1	1537.2	1774.6
25°	166.6	182.7	227.3	371.2	612.1	1075.1	1731.9	2011.8
27.5°	158.7	173.1	206.4	323.5	584.7	1145.9	1921.3	2241.6
30°	161.7	176.5	200.5	299.1	547.4	1205.0	2089.5	2420.9
32.5°	145.7	152.2	171.9	277.5	520.6	1254.6	2236.7	2569.4
35°	124.2	135.5	153.4	267.4	521.2	1287.9	2397.2	2759.1
37.5°	118.3	129.7	142.6	263.7	528.3	1323.4	2581.4	2981.6
40°	114.6	125.1	136.2	261.6	535.1	1355.7	2762.0	3201.5
42.5°	112.1	121.6	135.5	254.1	538.5	1384.7	2910.4	3388.5
45°	111.8	121.6	138.0	246.7	543.7	1415.8	3034.9	3526.8
47.5°	112.1	125.7	133.4	237.8	543.7	1467.8	3180.9	3650.3
50°	110.9	132.5	128.5	225.2	531.1	1566.4	3381.1	3815.7
52.5°	110.3	131.6	118.9	205.8	509.2	1722.9	3637.7	4043.7
55°	108.7	126.9	112.1	176.9	483.7	1893.6	3912.5	4313.3
57.5°	107.2	112.4	108.4	151.6	444.2	2013.7	4101.6	4523.6
60°	120.1	98.3	105.4	139.2	391.5	2046.6	4094.3	4607.4
62.5°	111.2	92.1	101.4	136.5	354.6	1954.2	3905.1	4562.2
65°	87.2	88.1	97.4	144.4	344.7	1709.4	3569.9	4353.0
67.5°	79.8	84.1	93.3	154.7	345.7	1368.6	3069.1	3897.3
70°	75.2	79.8	88.7	159.9	348.1	1020.3	2426.4	3174.4
72.5°	70.0	74.0	83.5	160.8	332.0	741.1	1870.2	2334.1
75°	63.7	67.4	76.1	140.1	275.1	514.1	1430.6	1596.9
77.5°	56.7	59.4	66.8	108.1	204.3	329.0	1073.8	1166.6
80°	48.4	49.9	56.1	79.2	139.8	205.8	849.6	936.1
82.5°	38.8	39.4	43.5	59.4	90.8	132.2	569.0	649.4
85°	27.4	27.4	29.9	43.2	61.9	83.8	308.9	342.6
87.5°	12.9	13.2	13.2	23.7	32.3	42.6	71.2	43.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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