

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: P192099

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192099
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA 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: 6009 lumens
Efficiency: N/A
Efficacy: 89.7 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): 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

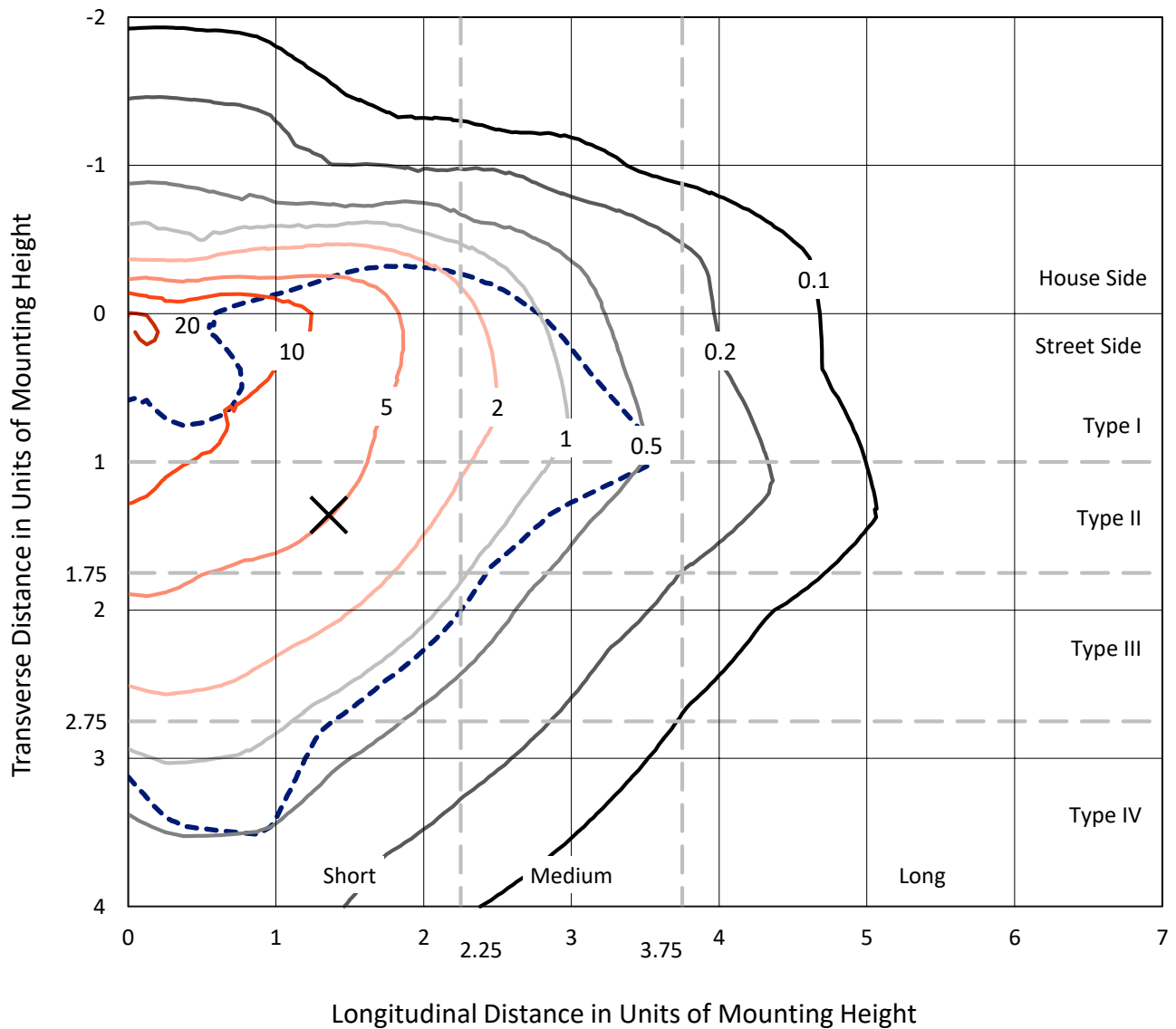


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

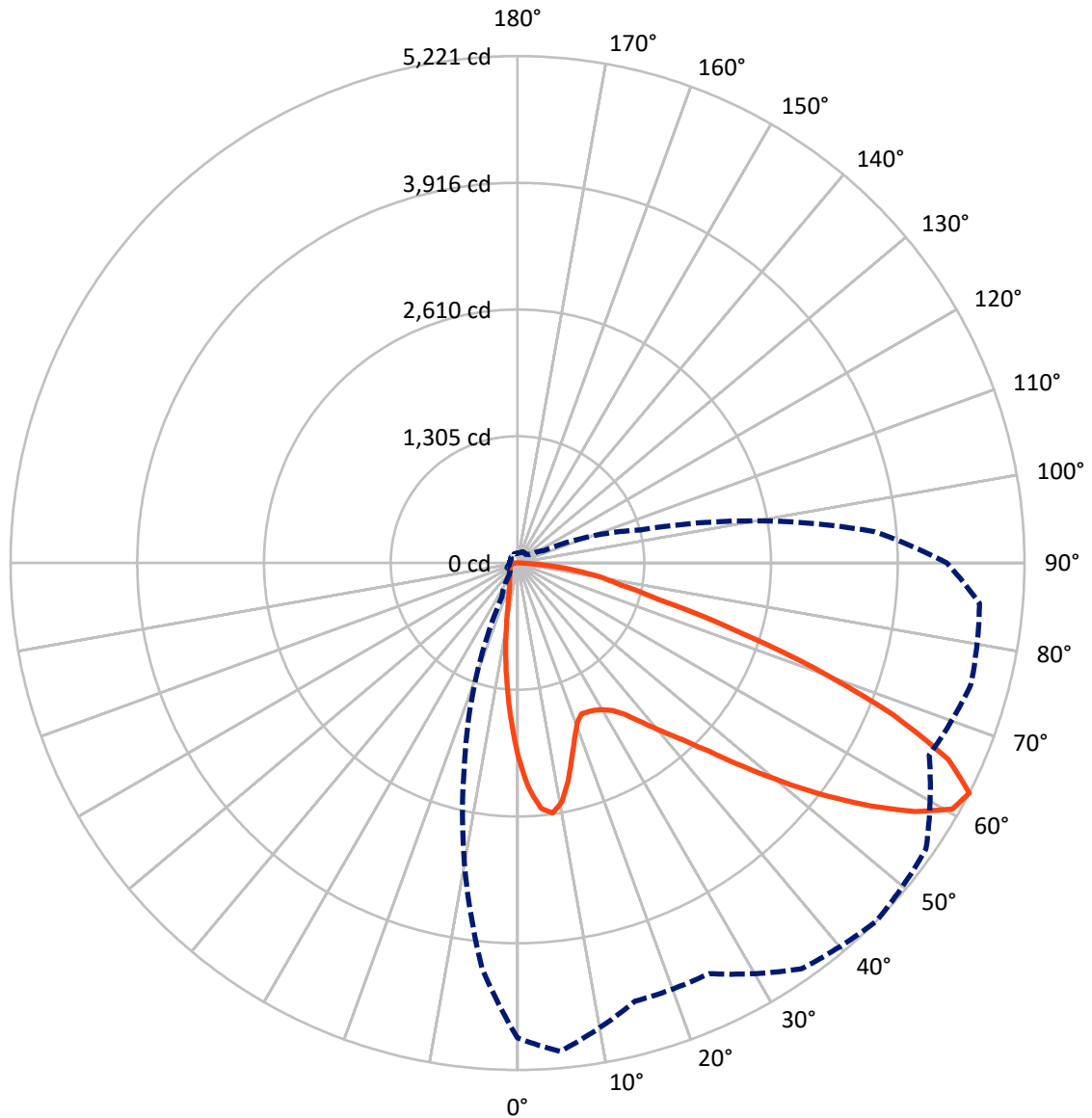


Based on 10 foot mounting height. Maximum calculated value = 23.9 fc
 Type IV - Short - Non-Cutoff

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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	994.4	0.0	994.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5014.6	0.0	5014.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	6009.0	0.0	6009.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	2.5
10°-20°	271.0	4.5
20°-30°	395.1	6.6
30°-40°	608.5	10.1
40°-50°	895.6	14.9
50°-60°	1313.7	21.9
60°-70°	1468.5	24.4
70°-80°	719.0	12.0
80°-90°	189.8	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°	6009.0	100.0
0°-180°	6009.0	100.0



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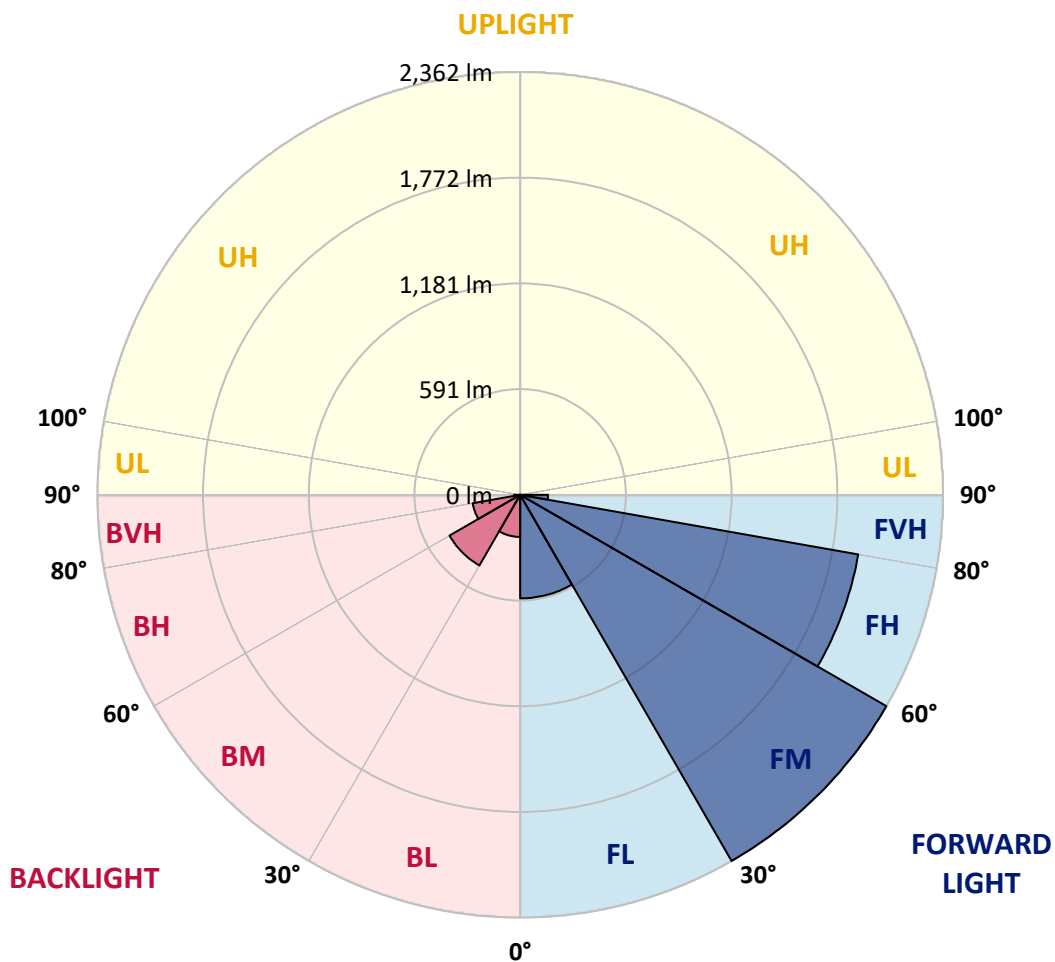
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	578.6	9.6			
FM	(30°-60°)	2362.2	39.3			
FH	(60°-80°)	1917.9	31.9			G2/5000
FVH	(80°-90°)	155.9	2.6			G2/225
BL	(0°-30°)	235.3	3.9	B1/500		
BM	(30°-60°)	455.6	7.6	B1/1000		
BH	(60°-80°)	269.6	4.5	B1/500		G1/500
BVH	(80°-90°)	33.9	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°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
2.5°	2109.4	2143.1	2208.9	2258.1	2317.9	2331.7	2350.9	2332.1	2298.7	2254.5	2239.9
5°	1983.6	2055.6	2215.1	2355.5	2480.4	2538.5	2554.7	2506.8	2410.0	2282.9	2205.2
7.5°	1781.8	1884.2	2100.2	2307.0	2491.0	2599.6	2597.0	2485.7	2307.6	2100.5	1976.0
10°	1607.7	1724.6	1972.4	2203.6	2398.8	2504.2	2463.5	2321.2	2108.8	1870.3	1735.2
12.5°	1510.2	1624.9	1876.2	2108.5	2271.6	2308.0	2276.9	2137.5	1937.3	1696.2	1578.0
15°	1493.4	1619.2	1837.9	2026.9	2118.4	2086.6	2049.7	1987.2	1845.8	1640.1	1516.8
17.5°	1566.4	1705.1	1881.8	1970.0	1954.5	1899.4	1888.8	1895.7	1861.7	1702.5	1560.4
20°	1706.4	1872.9	1986.6	1943.3	1830.0	1754.0	1756.7	1862.7	1963.4	1860.7	1698.5
22.5°	1903.0	2092.9	2137.5	1957.5	1777.5	1687.3	1709.1	1880.9	2125.6	2091.9	1884.8
25°	2157.3	2330.4	2298.4	2009.0	1782.8	1695.5	1713.1	1943.6	2317.2	2323.2	2115.4
27.5°	2403.8	2564.3	2433.5	2077.4	1804.6	1715.0	1738.2	2042.4	2500.2	2574.2	2379.0
30°	2596.0	2707.7	2487.0	2139.8	1847.5	1753.0	1781.8	2136.2	2583.5	2743.7	2581.8
32.5°	2755.2	2835.5	2572.2	2217.1	1926.4	1812.8	1863.4	2250.2	2703.4	2904.9	2780.3
35°	2958.7	2981.5	2678.3	2303.3	2048.3	1916.9	1979.6	2361.8	2817.7	3067.7	2975.9
37.5°	3197.2	3167.8	2778.3	2421.3	2205.9	2079.7	2131.6	2484.4	2911.8	3252.4	3175.7
40°	3433.0	3362.4	2903.9	2604.3	2435.8	2271.6	2333.1	2615.2	2999.7	3437.3	3370.9
42.5°	3633.6	3528.8	3027.7	2805.4	2649.8	2483.4	2556.7	2747.0	3083.6	3595.2	3540.4
45°	3781.9	3651.7	3145.7	2998.7	2944.8	2764.8	2799.5	2897.9	3174.4	3727.0	3679.8
47.5°	3914.3	3775.3	3279.1	3193.6	3202.8	3130.8	3075.0	3073.7	3281.4	3834.7	3811.6
50°	4091.7	3946.7	3422.5	3394.4	3589.9	3542.1	3418.8	3278.8	3416.9	3956.9	3954.3
52.5°	4336.1	4218.2	3597.5	3610.8	3951.3	3982.7	3830.1	3525.2	3628.9	4181.2	4165.4
55°	4625.2	4556.5	3836.0	3859.5	4394.6	4417.1	4265.5	3833.4	3940.8	4505.9	4462.0
57.5°	4850.8	4836.3	4097.7	4158.1	4725.6	4826.7	4687.3	4190.1	4292.2	4779.4	4669.1
60°	4940.6	5011.0	4376.1	4459.4	5031.8	5143.8	5021.6	4503.6	4603.7	4892.7	4654.9
62.5°	4892.1	5049.3	4672.7	4665.8	5100.2	5220.8	5134.9	4678.0	4834.6	4775.8	4419.4
65°	4667.8	4911.6	4844.8	4612.6	4866.3	4876.2	4848.5	4600.1	4889.1	4406.2	3964.2
67.5°	4179.2	4530.0	4618.2	4156.8	4235.4	4171.0	4124.4	4173.3	4605.0	3852.2	3331.6
70°	3404.0	3931.8	3974.1	3324.7	3289.0	3245.8	3152.9	3421.5	4044.5	3157.2	2643.6
72.5°	2502.9	3057.8	3187.6	2438.4	2273.3	2282.2	2208.9	2578.5	3288.4	2345.3	1973.7
75°	1712.4	2214.2	2493.9	1701.5	1503.3	1506.9	1497.7	1827.0	2619.1	1631.5	1476.9
77.5°	1250.9	1581.9	1880.9	1143.9	1110.5	1090.1	1085.1	1278.3	2008.0	1184.5	1146.9
80°	1003.9	1168.7	1263.5	792.8	852.6	850.9	823.5	879.0	1311.4	866.4	857.8
82.5°	696.3	898.1	1023.7	621.3	575.4	565.8	572.4	654.7	926.9	592.3	563.2
85°	367.3	596.6	1013.8	550.6	341.6	272.5	338.9	536.1	803.0	313.8	274.8
87.5°	46.9	172.4	671.2	219.7	134.8	72.7	160.9	301.9	515.6	64.1	55.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
2.5°	2202.6	2158.7	2101.2	2048.0	1992.8	1938.0	1866.3	1821.4	1790.3	1784.4	1771.2
5°	2149.1	2003.1	1892.7	1797.3	1710.7	1588.5	1520.8	1464.7	1434.6	1431.6	1424.4
7.5°	1902.3	1700.8	1551.9	1416.8	1294.2	1195.4	1086.4	1035.6	1014.8	1019.7	1024.7
10°	1645.7	1420.4	1249.3	1111.2	1003.2	919.9	832.4	773.3	732.3	724.1	722.4
12.5°	1458.0	1211.0	1044.8	947.4	863.8	785.5	692.7	623.0	569.8	551.6	539.4
15°	1378.8	1108.6	934.5	829.4	737.3	637.9	551.6	478.6	429.7	413.9	405.0
17.5°	1395.6	1080.2	858.5	724.1	606.1	502.4	393.7	331.3	301.9	294.3	294.3
20°	1484.1	1074.9	795.7	627.0	480.0	359.7	270.5	234.9	225.3	224.3	226.9
22.5°	1608.3	1093.4	748.8	542.7	372.9	262.6	210.7	197.5	193.2	194.2	197.2
25°	1793.3	1155.8	714.8	467.7	292.7	215.0	188.0	180.0	178.0	180.7	184.3
27.5°	2012.7	1218.2	693.7	411.3	247.1	196.5	178.7	170.4	171.8	175.1	178.4
30°	2205.2	1269.4	660.3	371.0	232.9	197.5	178.7	167.5	166.2	166.8	167.8
32.5°	2378.0	1304.1	621.3	332.6	200.8	175.4	166.8	165.2	157.9	155.3	155.6
35°	2527.0	1304.1	597.9	310.2	180.0	155.6	141.7	133.5	129.8	130.1	133.8
37.5°	2670.7	1278.0	586.3	297.6	168.8	148.0	135.8	128.5	123.5	122.5	123.2
40°	2797.5	1240.0	573.1	292.3	160.2	143.4	131.8	125.9	120.6	118.9	119.2
42.5°	2899.2	1209.3	558.6	285.4	154.9	140.1	129.2	123.9	117.9	116.3	115.9
45°	3009.2	1199.1	539.4	271.5	157.6	140.4	128.5	122.9	116.9	115.0	114.3
47.5°	3154.3	1231.1	519.6	255.0	163.2	142.0	129.5	122.9	116.6	115.0	114.3
50°	3336.9	1306.4	494.5	230.9	157.6	146.7	129.2	121.9	116.6	115.0	113.6
52.5°	3571.5	1408.2	461.5	203.1	154.3	157.9	128.5	119.9	115.0	112.6	110.3
55°	3856.5	1491.4	422.2	180.4	146.7	154.9	127.5	117.6	112.3	109.0	107.0
57.5°	4065.3	1521.5	371.6	165.5	136.1	150.0	126.2	114.6	109.0	106.4	103.7
60°	4024.0	1463.3	329.0	156.2	129.8	135.4	125.2	112.0	106.0	104.1	101.7
62.5°	3693.3	1311.4	301.6	151.9	125.9	123.5	126.2	109.3	103.4	101.4	100.7
65°	3197.5	1087.1	290.7	151.0	122.5	116.6	117.3	106.4	100.4	98.8	98.1
67.5°	2637.6	877.3	281.1	154.3	118.3	111.6	108.3	102.4	97.4	95.8	94.5
70°	2080.0	729.7	276.8	152.3	113.0	106.7	103.1	98.1	93.8	92.2	91.2
72.5°	1675.1	616.4	274.5	150.3	106.0	100.1	96.8	92.5	87.9	87.2	86.2
75°	1417.4	484.6	251.4	144.0	98.1	92.2	89.8	85.9	81.3	81.3	80.6
77.5°	1093.4	350.5	209.1	127.5	89.8	83.2	81.3	78.3	73.0	74.0	73.7
80°	807.6	228.6	163.5	105.7	79.6	73.3	72.3	69.4	63.8	65.1	65.1
82.5°	553.3	150.0	117.6	86.5	68.0	62.1	62.1	59.1	52.9	53.5	55.5
85°	277.8	103.1	87.9	67.1	52.9	49.9	49.9	47.6	41.3	41.6	44.3
87.5°	84.6	62.1	58.1	47.9	38.0	37.3	35.7	34.0	30.1	29.7	31.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
2.5°	1751.0	1732.2	1709.4	1659.2	1642.4	1641.4	1656.6	1640.7	1671.1	1658.2	1672.4
5°	1412.1	1393.6	1368.2	1304.1	1265.1	1238.7	1226.2	1189.2	1215.9	1196.4	1212.6
7.5°	1038.5	1042.8	1026.0	988.3	903.4	860.8	835.7	813.3	832.7	830.8	861.8
10°	730.0	741.6	729.7	691.7	623.0	599.5	604.2	613.1	638.5	651.7	699.6
12.5°	525.5	524.9	517.3	483.3	438.0	440.7	459.5	475.0	498.5	512.3	561.2
15°	392.4	386.5	383.2	355.4	329.7	335.3	344.5	346.2	361.0	369.3	408.9
17.5°	296.6	299.6	303.2	283.4	263.9	260.3	253.0	244.1	248.4	250.1	269.9
20°	235.5	247.4	256.3	242.5	222.6	212.1	202.8	196.9	196.9	196.5	202.2
22.5°	205.8	214.4	224.0	214.4	196.5	187.3	182.0	177.4	176.7	176.7	182.0
25°	189.6	195.9	205.1	198.5	185.3	178.4	173.4	167.5	165.2	164.5	168.1
27.5°	181.7	184.3	188.9	183.0	171.8	168.5	167.1	161.9	158.9	157.2	160.9
30°	168.1	167.5	167.8	161.9	152.9	152.6	154.9	155.9	154.9	154.6	160.2
32.5°	155.6	154.3	153.9	148.6	140.4	138.4	140.4	142.4	144.7	148.0	154.6
35°	139.7	143.0	145.0	140.4	130.5	124.5	122.2	118.6	116.6	116.6	124.2
37.5°	127.2	134.8	137.7	133.5	122.5	114.3	110.3	109.7	110.0	111.3	118.6
40°	122.9	128.5	131.1	126.8	115.9	108.3	106.0	105.4	106.0	108.0	115.3
42.5°	120.2	124.2	123.9	118.6	109.7	104.4	103.1	102.4	103.1	105.0	113.0
45°	117.9	120.6	117.9	111.6	103.4	100.7	101.1	100.7	101.4	103.4	111.0
47.5°	115.9	116.9	113.6	107.4	98.8	98.1	99.4	100.4	101.1	102.7	110.7
50°	113.0	113.0	110.0	103.4	94.8	95.1	96.8	99.1	99.4	101.4	107.7
52.5°	109.3	109.0	107.0	100.7	91.5	92.5	92.5	95.1	95.8	98.1	104.7
55°	106.4	105.7	104.7	98.8	88.5	90.2	89.2	90.2	91.8	94.1	101.4
57.5°	103.7	102.4	102.4	97.1	86.2	86.9	84.6	85.9	87.9	89.8	97.4
60°	101.1	99.8	100.4	94.8	82.6	81.9	80.9	83.6	84.2	86.5	94.1
62.5°	98.1	97.1	97.4	92.2	79.9	78.3	78.3	80.6	80.9	84.2	91.5
65°	95.8	94.5	94.1	89.5	77.0	75.0	76.0	77.0	77.6	80.9	87.9
67.5°	93.5	90.8	90.8	87.2	73.7	71.7	73.7	73.3	74.3	77.3	82.9
70°	90.5	86.9	87.2	85.6	70.4	68.0	69.7	69.4	70.0	72.0	77.6
72.5°	85.9	82.9	83.6	82.9	67.1	63.8	64.4	64.4	64.4	66.1	72.0
75°	79.9	77.6	79.6	81.3	63.1	58.5	59.1	59.1	58.1	59.1	66.4
77.5°	72.7	71.3	78.0	75.6	58.5	52.9	52.9	52.2	50.2	51.5	59.5
80°	64.7	63.8	72.0	63.4	53.2	45.9	45.3	43.6	41.6	42.6	50.5
82.5°	56.5	55.5	60.4	48.6	45.9	38.0	36.3	33.4	31.4	32.4	39.6
85°	46.2	46.2	46.6	36.7	35.0	29.1	27.1	23.1	20.8	21.5	28.4
87.5°	33.0	34.0	31.4	25.1	20.8	16.2	14.9	12.6	10.6	12.2	14.9
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°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
2.5°	1745.1	1781.4	1822.7	1875.6	1920.8	1995.1	2066.5	2109.4
5°	1304.8	1365.2	1440.5	1537.3	1627.5	1762.9	1897.4	1983.6
7.5°	933.8	998.6	1079.8	1200.7	1328.2	1501.0	1678.7	1781.8
10°	772.6	839.0	907.4	989.0	1093.4	1281.3	1491.4	1607.7
12.5°	639.2	710.2	783.9	869.7	966.5	1134.3	1376.5	1510.2
15°	489.2	568.5	655.4	764.0	885.3	1079.2	1348.0	1493.4
17.5°	335.3	423.8	530.5	664.6	812.9	1061.3	1398.9	1566.4
20°	230.9	295.3	409.3	566.5	744.9	1059.0	1496.7	1706.4
22.5°	193.2	222.0	305.2	476.3	693.7	1087.4	1648.3	1903.0
25°	178.7	195.9	243.8	398.0	656.4	1152.8	1857.1	2157.3
27.5°	170.1	185.6	221.3	346.8	627.0	1228.8	2060.2	2403.8
30°	173.4	189.3	215.0	320.7	587.0	1292.2	2240.6	2596.0
32.5°	156.2	163.2	184.3	297.6	558.2	1345.4	2398.5	2755.2
35°	133.1	145.3	164.5	286.7	558.9	1381.1	2570.6	2958.7
37.5°	126.8	139.1	152.9	282.8	566.5	1419.1	2768.1	3197.2
40°	122.9	134.1	146.0	280.4	573.8	1453.8	2961.7	3433.0
42.5°	120.2	130.5	145.3	272.5	577.4	1484.8	3120.9	3633.6
45°	119.9	130.5	148.0	264.6	583.0	1518.2	3254.3	3781.9
47.5°	120.2	134.8	143.0	255.0	583.0	1574.0	3410.9	3914.3
50°	118.9	142.0	137.7	241.5	569.5	1679.7	3625.6	4091.7
52.5°	118.3	141.0	127.5	220.7	546.0	1847.5	3900.8	4336.1
55°	116.6	136.1	120.2	189.6	518.6	2030.5	4195.4	4625.2
57.5°	115.0	120.6	116.3	162.5	476.3	2159.3	4398.2	4850.8
60°	128.8	105.4	113.0	149.3	419.8	2194.7	4390.3	4940.6
62.5°	119.2	98.8	108.7	146.3	380.2	2095.6	4187.5	4892.1
65°	93.5	94.5	104.4	154.9	369.6	1833.0	3828.1	4667.8
67.5°	85.6	90.2	100.1	165.8	370.6	1467.6	3291.0	4179.2
70°	80.6	85.6	95.1	171.4	373.3	1094.0	2602.0	3404.0
72.5°	75.0	79.3	89.5	172.4	356.1	794.8	2005.4	2502.9
75°	68.4	72.3	81.6	150.3	295.0	551.3	1534.0	1712.4
77.5°	60.8	63.8	71.7	115.9	219.0	352.8	1151.5	1250.9
80°	51.9	53.5	60.1	84.9	150.0	220.7	911.0	1003.9
82.5°	41.6	42.3	46.6	63.8	97.4	141.7	610.1	696.3
85°	29.4	29.4	32.0	46.2	66.4	89.8	331.3	367.3
87.5°	13.9	14.2	14.2	25.4	34.7	45.6	76.3	46.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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