

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: P192139

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192139
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-SLR-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT 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

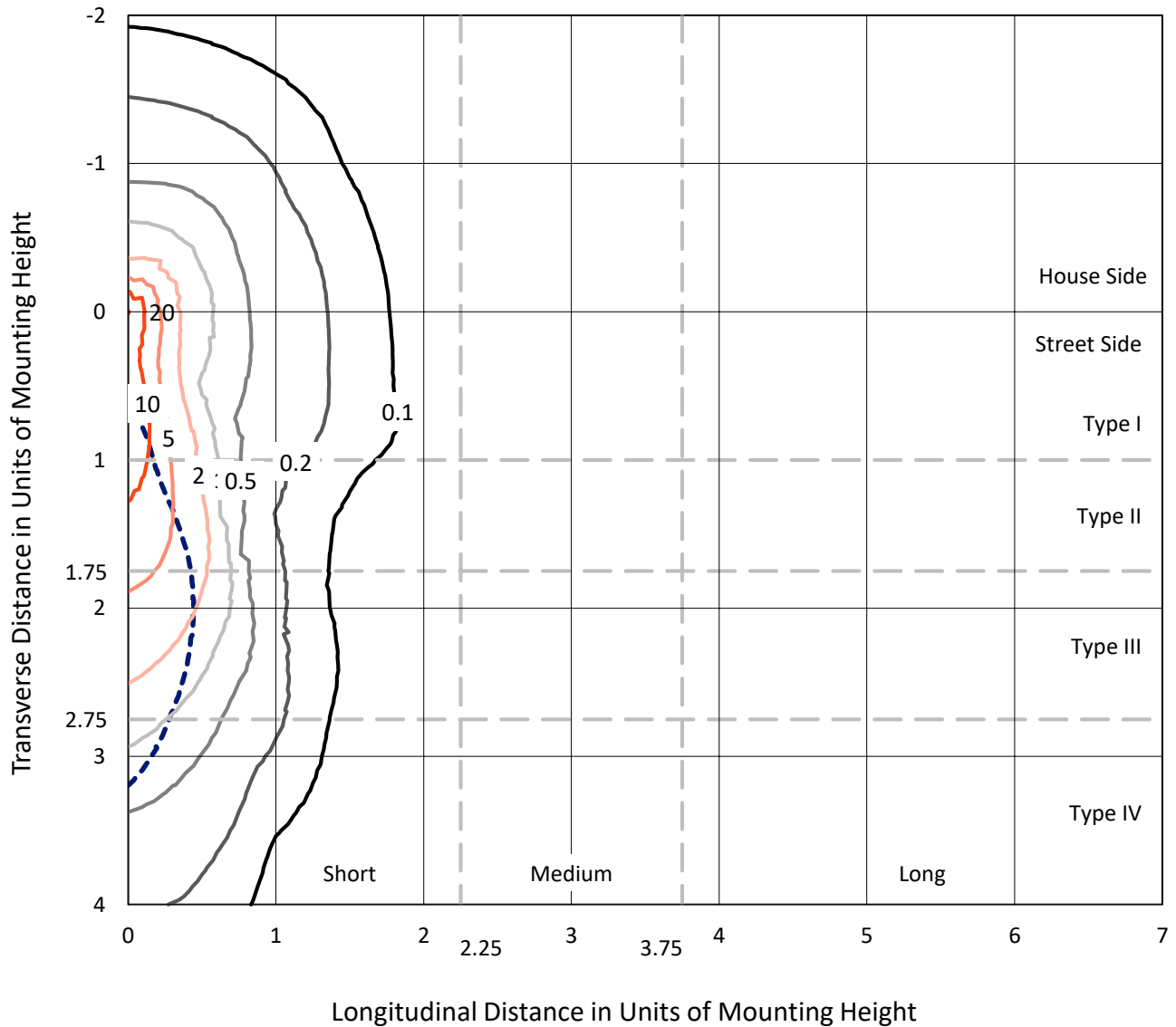


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

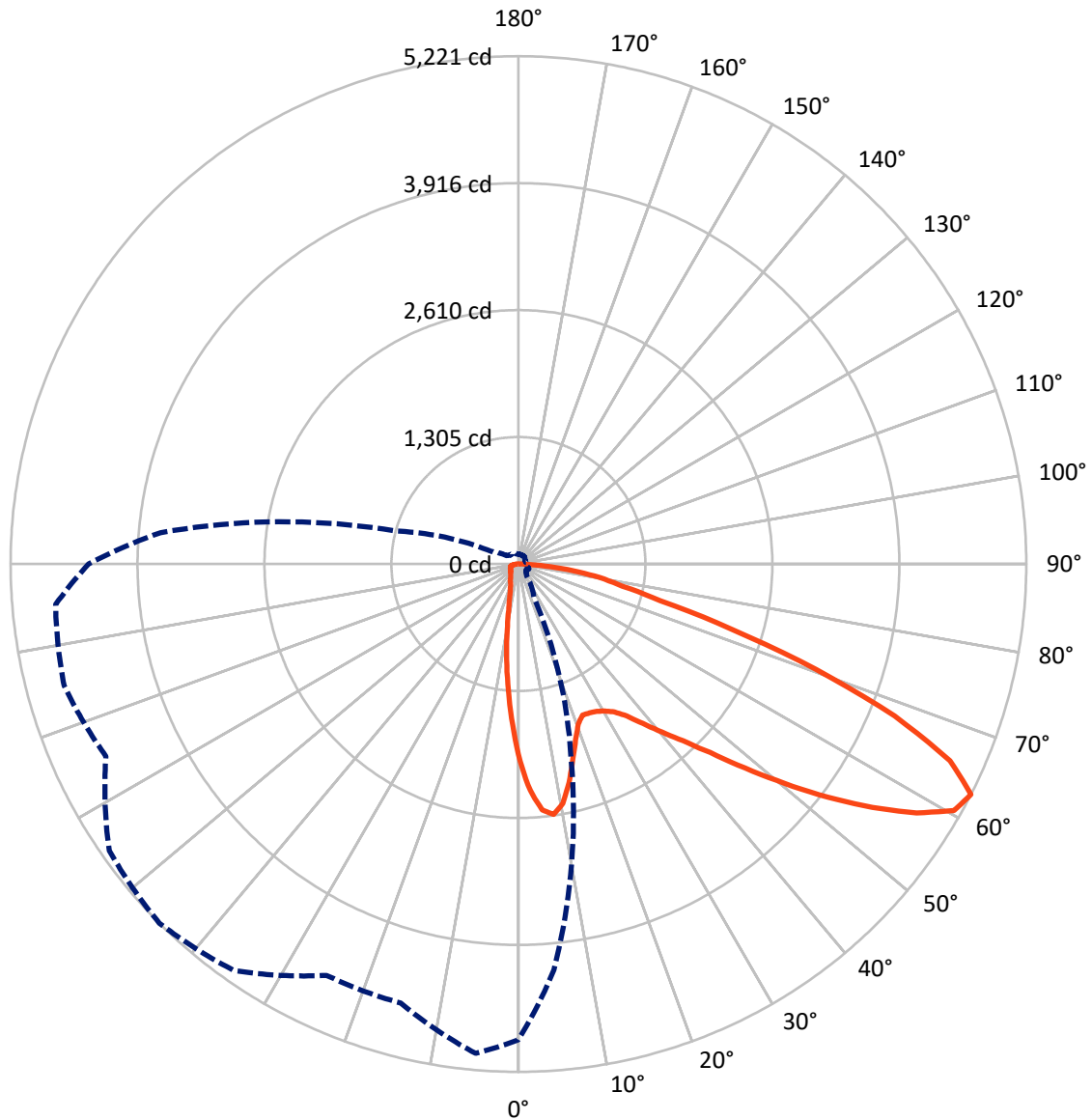


Based on 10 foot mounting height. Maximum calculated value = 20.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-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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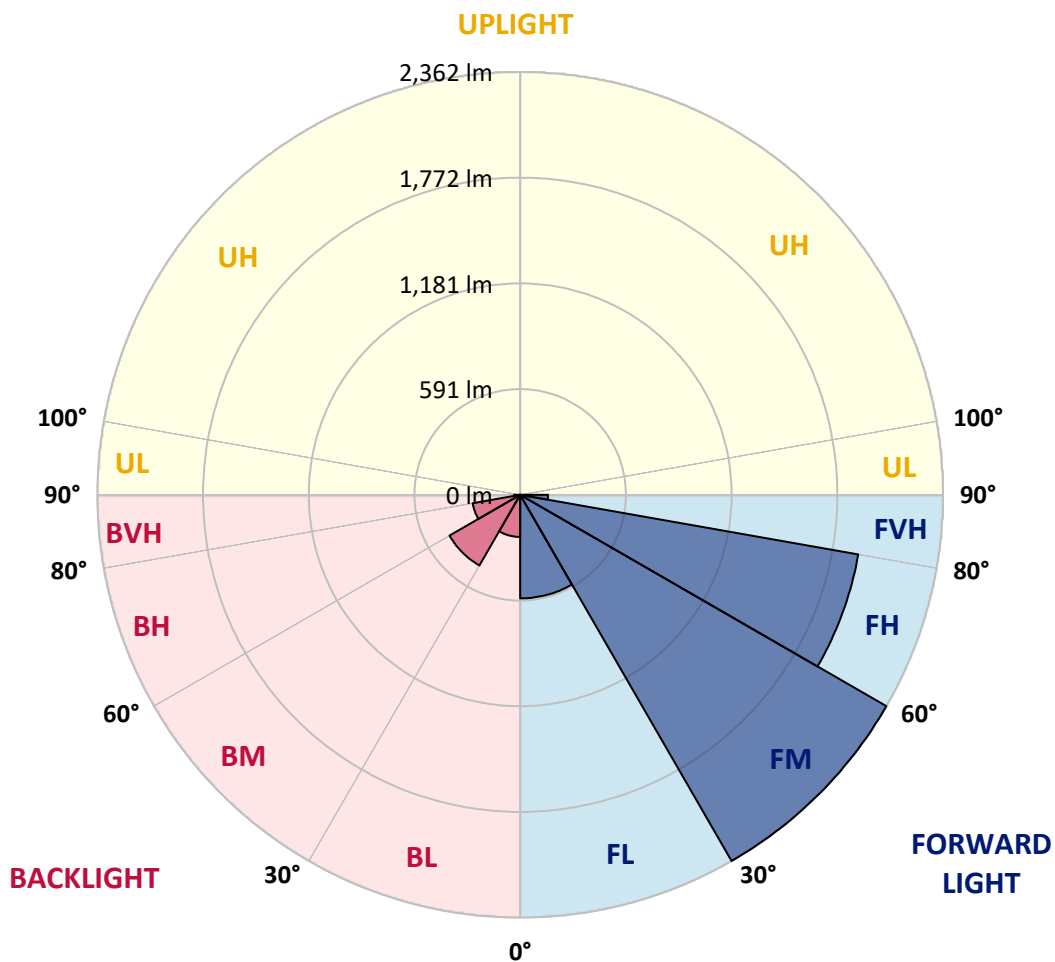
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	2066.5	1995.1	1920.8	1875.6	1822.7	1781.4	1745.1	1672.4	1658.2	1671.1
5°	1983.6	1897.4	1762.9	1627.5	1537.3	1440.5	1365.2	1304.8	1212.6	1196.4	1215.9
7.5°	1781.8	1678.7	1501.0	1328.2	1200.7	1079.8	998.6	933.8	861.8	830.8	832.7
10°	1607.7	1491.4	1281.3	1093.4	989.0	907.4	839.0	772.6	699.6	651.7	638.5
12.5°	1510.2	1376.5	1134.3	966.5	869.7	783.9	710.2	639.2	561.2	512.3	498.5
15°	1493.4	1348.0	1079.2	885.3	764.0	655.4	568.5	489.2	408.9	369.3	361.0
17.5°	1566.4	1398.9	1061.3	812.9	664.6	530.5	423.8	335.3	269.9	250.1	248.4
20°	1706.4	1496.7	1059.0	744.9	566.5	409.3	295.3	230.9	202.2	196.5	196.9
22.5°	1903.0	1648.3	1087.4	693.7	476.3	305.2	222.0	193.2	182.0	176.7	176.7
25°	2157.3	1857.1	1152.8	656.4	398.0	243.8	195.9	178.7	168.1	164.5	165.2
27.5°	2403.8	2060.2	1228.8	627.0	346.8	221.3	185.6	170.1	160.9	157.2	158.9
30°	2596.0	2240.6	1292.2	587.0	320.7	215.0	189.3	173.4	160.2	154.6	154.9
32.5°	2755.2	2398.5	1345.4	558.2	297.6	184.3	163.2	156.2	154.6	148.0	144.7
35°	2958.7	2570.6	1381.1	558.9	286.7	164.5	145.3	133.1	124.2	116.6	116.6
37.5°	3197.2	2768.1	1419.1	566.5	282.8	152.9	139.1	126.8	118.6	111.3	110.0
40°	3433.0	2961.7	1453.8	573.8	280.4	146.0	134.1	122.9	115.3	108.0	106.0
42.5°	3633.6	3120.9	1484.8	577.4	272.5	145.3	130.5	120.2	113.0	105.0	103.1
45°	3781.9	3254.3	1518.2	583.0	264.6	148.0	130.5	119.9	111.0	103.4	101.4
47.5°	3914.3	3410.9	1574.0	583.0	255.0	143.0	134.8	120.2	110.7	102.7	101.1
50°	4091.7	3625.6	1679.7	569.5	241.5	137.7	142.0	118.9	107.7	101.4	99.4
52.5°	4336.1	3900.8	1847.5	546.0	220.7	127.5	141.0	118.3	104.7	98.1	95.8
55°	4625.2	4195.4	2030.5	518.6	189.6	120.2	136.1	116.6	101.4	94.1	91.8
57.5°	4850.8	4398.2	2159.3	476.3	162.5	116.3	120.6	115.0	97.4	89.8	87.9
60°	4940.6	4390.3	2194.7	419.8	149.3	113.0	105.4	128.8	94.1	86.5	84.2
62.5°	4892.1	4187.5	2095.6	380.2	146.3	108.7	98.8	119.2	91.5	84.2	80.9
65°	4667.8	3828.1	1833.0	369.6	154.9	104.4	94.5	93.5	87.9	80.9	77.6
67.5°	4179.2	3291.0	1467.6	370.6	165.8	100.1	90.2	85.6	82.9	77.3	74.3
70°	3404.0	2602.0	1094.0	373.3	171.4	95.1	85.6	80.6	77.6	72.0	70.0
72.5°	2502.9	2005.4	794.8	356.1	172.4	89.5	79.3	75.0	72.0	66.1	64.4
75°	1712.4	1534.0	551.3	295.0	150.3	81.6	72.3	68.4	66.4	59.1	58.1
77.5°	1250.9	1151.5	352.8	219.0	115.9	71.7	63.8	60.8	59.5	51.5	50.2
80°	1003.9	911.0	220.7	150.0	84.9	60.1	53.5	51.9	50.5	42.6	41.6
82.5°	696.3	610.1	141.7	97.4	63.8	46.6	42.3	41.6	39.6	32.4	31.4
85°	367.3	331.3	89.8	66.4	46.2	32.0	29.4	29.4	28.4	21.5	20.8
87.5°	46.9	76.3	45.6	34.7	25.4	14.2	14.2	13.9	14.9	12.2	10.6
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°	1640.7	1656.6	1641.4	1642.4	1659.2	1709.4	1732.2	1751.0	1771.2	1784.4	1790.3
5°	1189.2	1226.2	1238.7	1265.1	1304.1	1368.2	1393.6	1412.1	1424.4	1431.6	1434.6
7.5°	813.3	835.7	860.8	903.4	988.3	1026.0	1042.8	1038.5	1024.7	1019.7	1014.8
10°	613.1	604.2	599.5	623.0	691.7	729.7	741.6	730.0	722.4	724.1	732.3
12.5°	475.0	459.5	440.7	438.0	483.3	517.3	524.9	525.5	539.4	551.6	569.8
15°	346.2	344.5	335.3	329.7	355.4	383.2	386.5	392.4	405.0	413.9	429.7
17.5°	244.1	253.0	260.3	263.9	283.4	303.2	299.6	296.6	294.3	294.3	301.9
20°	196.9	202.8	212.1	222.6	242.5	256.3	247.4	235.5	226.9	224.3	225.3
22.5°	177.4	182.0	187.3	196.5	214.4	224.0	214.4	205.8	197.2	194.2	193.2
25°	167.5	173.4	178.4	185.3	198.5	205.1	195.9	189.6	184.3	180.7	178.0
27.5°	161.9	167.1	168.5	171.8	183.0	188.9	184.3	181.7	178.4	175.1	171.8
30°	155.9	154.9	152.6	152.9	161.9	167.8	167.5	168.1	167.8	166.8	166.2
32.5°	142.4	140.4	138.4	140.4	148.6	153.9	154.3	155.6	155.6	155.3	157.9
35°	118.6	122.2	124.5	130.5	140.4	145.0	143.0	139.7	133.8	130.1	129.8
37.5°	109.7	110.3	114.3	122.5	133.5	137.7	134.8	127.2	123.2	122.5	123.5
40°	105.4	106.0	108.3	115.9	126.8	131.1	128.5	122.9	119.2	118.9	120.6
42.5°	102.4	103.1	104.4	109.7	118.6	123.9	124.2	120.2	115.9	116.3	117.9
45°	100.7	101.1	100.7	103.4	111.6	117.9	120.6	117.9	114.3	115.0	116.9
47.5°	100.4	99.4	98.1	98.8	107.4	113.6	116.9	115.9	114.3	115.0	116.6
50°	99.1	96.8	95.1	94.8	103.4	110.0	113.0	113.0	113.6	115.0	116.6
52.5°	95.1	92.5	92.5	91.5	100.7	107.0	109.0	109.3	110.3	112.6	115.0
55°	90.2	89.2	90.2	88.5	98.8	104.7	105.7	106.4	107.0	109.0	112.3
57.5°	85.9	84.6	86.9	86.2	97.1	102.4	102.4	103.7	103.7	106.4	109.0
60°	83.6	80.9	81.9	82.6	94.8	100.4	99.8	101.1	101.7	104.1	106.0
62.5°	80.6	78.3	78.3	79.9	92.2	97.4	97.1	98.1	100.7	101.4	103.4
65°	77.0	76.0	75.0	77.0	89.5	94.1	94.5	95.8	98.1	98.8	100.4
67.5°	73.3	73.7	71.7	73.7	87.2	90.8	90.8	93.5	94.5	95.8	97.4
70°	69.4	69.7	68.0	70.4	85.6	87.2	86.9	90.5	91.2	92.2	93.8
72.5°	64.4	64.4	63.8	67.1	82.9	83.6	82.9	85.9	86.2	87.2	87.9
75°	59.1	59.1	58.5	63.1	81.3	79.6	77.6	79.9	80.6	81.3	81.3
77.5°	52.2	52.9	52.9	58.5	75.6	78.0	71.3	72.7	73.7	74.0	73.0
80°	43.6	45.3	45.9	53.2	63.4	72.0	63.8	64.7	65.1	65.1	63.8
82.5°	33.4	36.3	38.0	45.9	48.6	60.4	55.5	56.5	55.5	53.5	52.9
85°	23.1	27.1	29.1	35.0	36.7	46.6	46.2	46.2	44.3	41.6	41.3
87.5°	12.6	14.9	16.2	20.8	25.1	31.4	34.0	33.0	31.4	29.7	30.1
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):

	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°	1821.4	1866.3	1938.0	1992.8	2048.0	2101.2	2158.7	2202.6	2239.9	2254.5	2298.7
5°	1464.7	1520.8	1588.5	1710.7	1797.3	1892.7	2003.1	2149.1	2205.2	2282.9	2410.0
7.5°	1035.6	1086.4	1195.4	1294.2	1416.8	1551.9	1700.8	1902.3	1976.0	2100.5	2307.6
10°	773.3	832.4	919.9	1003.2	1111.2	1249.3	1420.4	1645.7	1735.2	1870.3	2108.8
12.5°	623.0	692.7	785.5	863.8	947.4	1044.8	1211.0	1458.0	1578.0	1696.2	1937.3
15°	478.6	551.6	637.9	737.3	829.4	934.5	1108.6	1378.8	1516.8	1640.1	1845.8
17.5°	331.3	393.7	502.4	606.1	724.1	858.5	1080.2	1395.6	1560.4	1702.5	1861.7
20°	234.9	270.5	359.7	480.0	627.0	795.7	1074.9	1484.1	1698.5	1860.7	1963.4
22.5°	197.5	210.7	262.6	372.9	542.7	748.8	1093.4	1608.3	1884.8	2091.9	2125.6
25°	180.0	188.0	215.0	292.7	467.7	714.8	1155.8	1793.3	2115.4	2323.2	2317.2
27.5°	170.4	178.7	196.5	247.1	411.3	693.7	1218.2	2012.7	2379.0	2574.2	2500.2
30°	167.5	178.7	197.5	232.9	371.0	660.3	1269.4	2205.2	2581.8	2743.7	2583.5
32.5°	165.2	166.8	175.4	200.8	332.6	621.3	1304.1	2378.0	2780.3	2904.9	2703.4
35°	133.5	141.7	155.6	180.0	310.2	597.9	1304.1	2527.0	2975.9	3067.7	2817.7
37.5°	128.5	135.8	148.0	168.8	297.6	586.3	1278.0	2670.7	3175.7	3252.4	2911.8
40°	125.9	131.8	143.4	160.2	292.3	573.1	1240.0	2797.5	3370.9	3437.3	2999.7
42.5°	123.9	129.2	140.1	154.9	285.4	558.6	1209.3	2899.2	3540.4	3595.2	3083.6
45°	122.9	128.5	140.4	157.6	271.5	539.4	1199.1	3009.2	3679.8	3727.0	3174.4
47.5°	122.9	129.5	142.0	163.2	255.0	519.6	1231.1	3154.3	3811.6	3834.7	3281.4
50°	121.9	129.2	146.7	157.6	230.9	494.5	1306.4	3336.9	3954.3	3956.9	3416.9
52.5°	119.9	128.5	157.9	154.3	203.1	461.5	1408.2	3571.5	4165.4	4181.2	3628.9
55°	117.6	127.5	154.9	146.7	180.4	422.2	1491.4	3856.5	4462.0	4505.9	3940.8
57.5°	114.6	126.2	150.0	136.1	165.5	371.6	1521.5	4065.3	4669.1	4779.4	4292.2
60°	112.0	125.2	135.4	129.8	156.2	329.0	1463.3	4024.0	4654.9	4892.7	4603.7
62.5°	109.3	126.2	123.5	125.9	151.9	301.6	1311.4	3693.3	4419.4	4775.8	4834.6
65°	106.4	117.3	116.6	122.5	151.0	290.7	1087.1	3197.5	3964.2	4406.2	4889.1
67.5°	102.4	108.3	111.6	118.3	154.3	281.1	877.3	2637.6	3331.6	3852.2	4605.0
70°	98.1	103.1	106.7	113.0	152.3	276.8	729.7	2080.0	2643.6	3157.2	4044.5
72.5°	92.5	96.8	100.1	106.0	150.3	274.5	616.4	1675.1	1973.7	2345.3	3288.4
75°	85.9	89.8	92.2	98.1	144.0	251.4	484.6	1417.4	1476.9	1631.5	2619.1
77.5°	78.3	81.3	83.2	89.8	127.5	209.1	350.5	1093.4	1146.9	1184.5	2008.0
80°	69.4	72.3	73.3	79.6	105.7	163.5	228.6	807.6	857.8	866.4	1311.4
82.5°	59.1	62.1	62.1	68.0	86.5	117.6	150.0	553.3	563.2	592.3	926.9
85°	47.6	49.9	49.9	52.9	67.1	87.9	103.1	277.8	274.8	313.8	803.0
87.5°	34.0	35.7	37.3	38.0	47.9	58.1	62.1	84.6	55.8	64.1	515.6
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°	2332.1	2350.9	2331.7	2317.9	2258.1	2208.9	2143.1	2109.4
5°	2506.8	2554.7	2538.5	2480.4	2355.5	2215.1	2055.6	1983.6
7.5°	2485.7	2597.0	2599.6	2491.0	2307.0	2100.2	1884.2	1781.8
10°	2321.2	2463.5	2504.2	2398.8	2203.6	1972.4	1724.6	1607.7
12.5°	2137.5	2276.9	2308.0	2271.6	2108.5	1876.2	1624.9	1510.2
15°	1987.2	2049.7	2086.6	2118.4	2026.9	1837.9	1619.2	1493.4
17.5°	1895.7	1888.8	1899.4	1954.5	1970.0	1881.8	1705.1	1566.4
20°	1862.7	1756.7	1754.0	1830.0	1943.3	1986.6	1872.9	1706.4
22.5°	1880.9	1709.1	1687.3	1777.5	1957.5	2137.5	2092.9	1903.0
25°	1943.6	1713.1	1695.5	1782.8	2009.0	2298.4	2330.4	2157.3
27.5°	2042.4	1738.2	1715.0	1804.6	2077.4	2433.5	2564.3	2403.8
30°	2136.2	1781.8	1753.0	1847.5	2139.8	2487.0	2707.7	2596.0
32.5°	2250.2	1863.4	1812.8	1926.4	2217.1	2572.2	2835.5	2755.2
35°	2361.8	1979.6	1916.9	2048.3	2303.3	2678.3	2981.5	2958.7
37.5°	2484.4	2131.6	2079.7	2205.9	2421.3	2778.3	3167.8	3197.2
40°	2615.2	2333.1	2271.6	2435.8	2604.3	2903.9	3362.4	3433.0
42.5°	2747.0	2556.7	2483.4	2649.8	2805.4	3027.7	3528.8	3633.6
45°	2897.9	2799.5	2764.8	2944.8	2998.7	3145.7	3651.7	3781.9
47.5°	3073.7	3075.0	3130.8	3202.8	3193.6	3279.1	3775.3	3914.3
50°	3278.8	3418.8	3542.1	3589.9	3394.4	3422.5	3946.7	4091.7
52.5°	3525.2	3830.1	3982.7	3951.3	3610.8	3597.5	4218.2	4336.1
55°	3833.4	4265.5	4417.1	4394.6	3859.5	3836.0	4556.5	4625.2
57.5°	4190.1	4687.3	4826.7	4725.6	4158.1	4097.7	4836.3	4850.8
60°	4503.6	5021.6	5143.8	5031.8	4459.4	4376.1	5011.0	4940.6
62.5°	4678.0	5134.9	5220.8	5100.2	4665.8	4672.7	5049.3	4892.1
65°	4600.1	4848.5	4876.2	4866.3	4612.6	4844.8	4911.6	4667.8
67.5°	4173.3	4124.4	4171.0	4235.4	4156.8	4618.2	4530.0	4179.2
70°	3421.5	3152.9	3245.8	3289.0	3324.7	3974.1	3931.8	3404.0
72.5°	2578.5	2208.9	2282.2	2273.3	2438.4	3187.6	3057.8	2502.9
75°	1827.0	1497.7	1506.9	1503.3	1701.5	2493.9	2214.2	1712.4
77.5°	1278.3	1085.1	1090.1	1110.5	1143.9	1880.9	1581.9	1250.9
80°	879.0	823.5	850.9	852.6	792.8	1263.5	1168.7	1003.9
82.5°	654.7	572.4	565.8	575.4	621.3	1023.7	898.1	696.3
85°	536.1	338.9	272.5	341.6	550.6	1013.8	596.6	367.3
87.5°	301.9	160.9	72.7	134.8	219.7	671.2	172.4	46.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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