

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: P192110

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192110
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-02-LED-E1-SLR-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7052 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

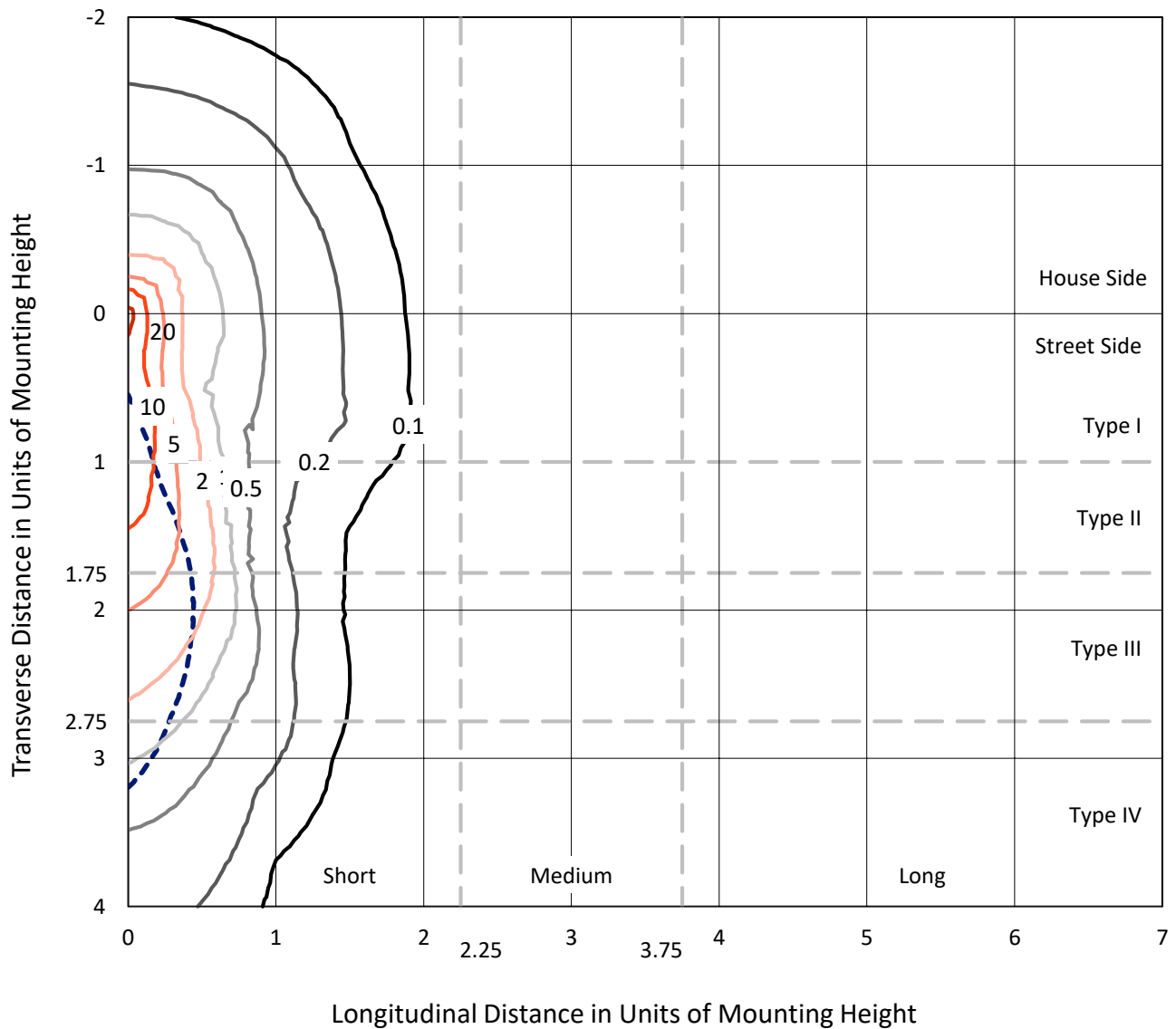


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Iso-Footcandle Lines of Horizontal Illumination

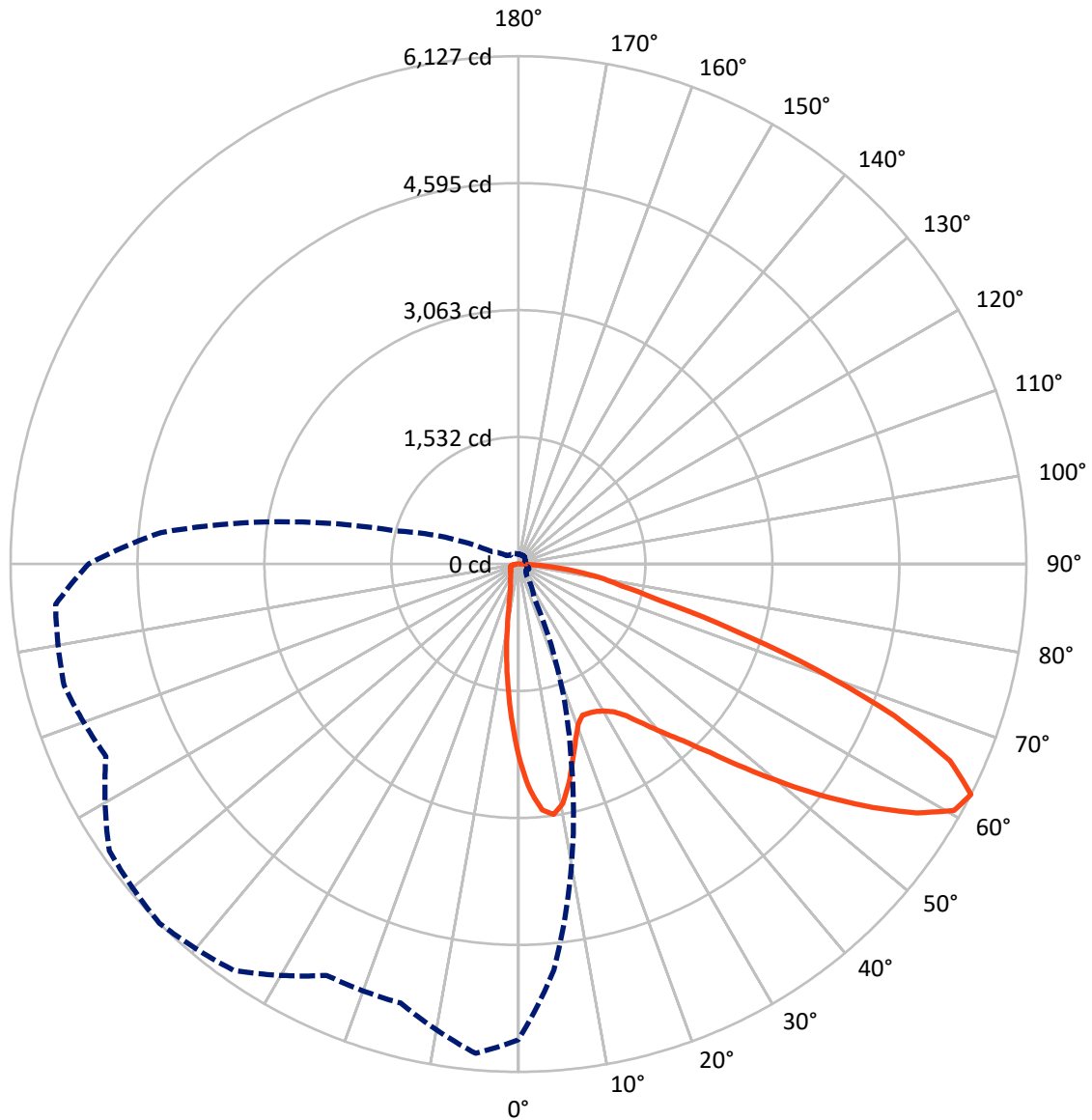
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.8 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	1167.0	0.0	1167.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5885.0	0.0	5885.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	7052.0	0.0	7052.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	2.5
10°-20°	318.0	4.5
20°-30°	463.7	6.6
30°-40°	714.2	10.1
40°-50°	1051.1	14.9
50°-60°	1541.7	21.9
60°-70°	1723.4	24.4
70°-80°	843.7	12.0
80°-90°	222.8	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°	7052.0	100.0
0°-180°	7052.0	100.0



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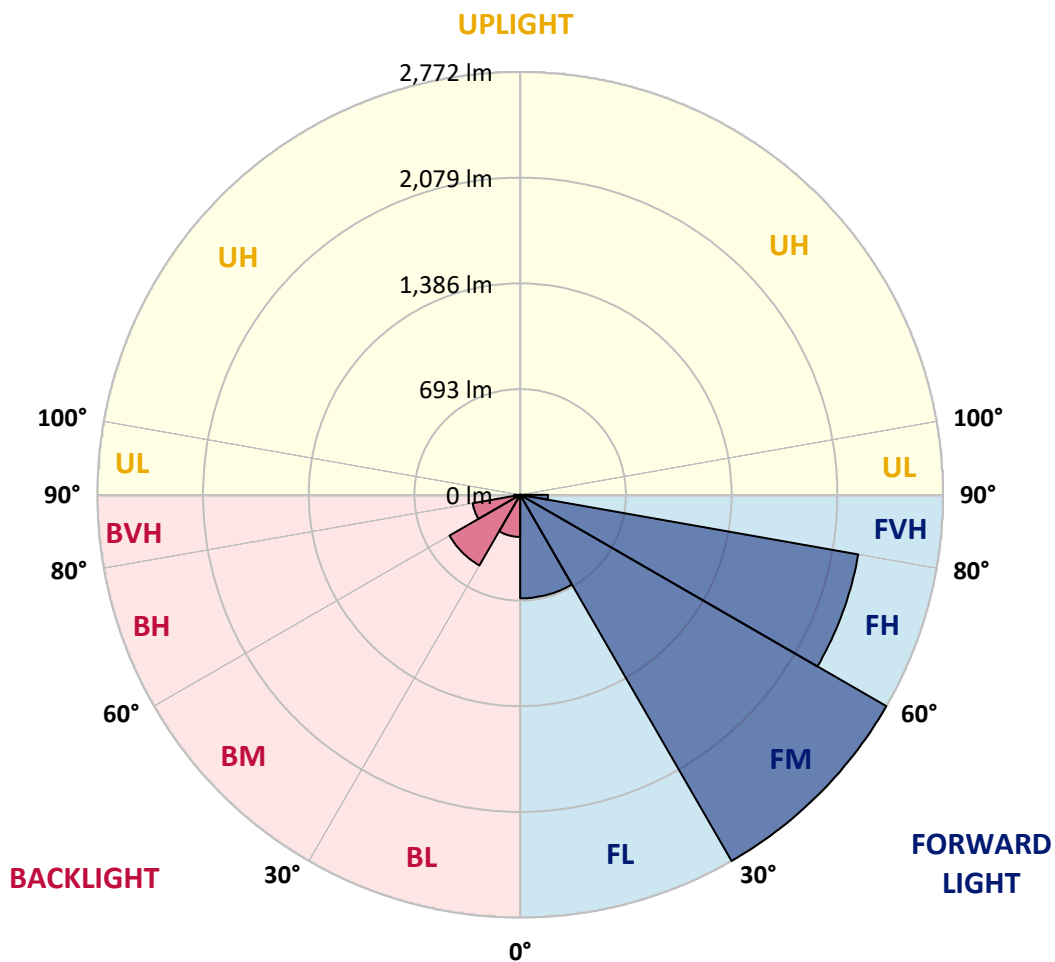
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-7050-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.1	9.6			
FM (30°-60°)	2772.2	39.3			
FH (60°-80°)	2250.8	31.9			G2/5000
FVH (80°-90°)	182.9	2.6			G2/225
BL (0°-30°)	276.1	3.9	B1/500		
BM (30°-60°)	534.7	7.6	B1/1000		
BH (60°-80°)	316.4	4.5	B1/500		G1/500
BVH (80°-90°)	39.8	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°	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5
2.5°	2475.6	2425.2	2341.5	2254.2	2201.1	2139.1	2090.6	2048.0	1962.7	1946.0	1961.2
5°	2327.9	2226.7	2068.9	1910.0	1804.2	1690.6	1602.2	1531.2	1423.1	1404.1	1427.0
7.5°	2091.0	1970.1	1761.5	1558.8	1409.1	1267.3	1171.9	1095.9	1011.4	975.0	977.3
10°	1886.7	1750.3	1503.7	1283.1	1160.6	1064.9	984.7	906.7	821.1	764.8	749.3
12.5°	1772.4	1615.4	1331.2	1134.3	1020.7	919.9	833.5	750.1	658.6	601.3	585.0
15°	1752.6	1582.0	1266.5	1038.9	896.7	769.1	667.2	574.1	479.9	433.4	423.7
17.5°	1838.3	1641.7	1245.5	954.0	780.0	622.6	497.4	393.5	316.7	293.5	291.5
20°	2002.6	1756.5	1242.8	874.2	664.8	480.3	346.6	271.0	237.2	230.7	231.0
22.5°	2233.3	1934.4	1276.2	814.1	559.0	358.2	260.5	226.8	213.6	207.4	207.4
25°	2531.8	2179.4	1352.9	770.3	467.1	286.1	229.9	209.7	197.3	193.1	193.8
27.5°	2821.0	2417.8	1442.1	735.8	407.0	259.7	217.9	199.6	188.8	184.5	186.5
30°	3046.6	2629.5	1516.5	688.9	376.4	252.4	222.1	203.5	188.0	181.4	181.8
32.5°	3233.5	2814.8	1578.9	655.1	349.3	216.3	191.5	183.4	181.4	173.7	169.8
35°	3472.3	3016.8	1620.8	655.9	336.5	193.1	170.6	156.2	145.8	136.8	136.8
37.5°	3752.1	3248.6	1665.4	664.8	331.8	179.5	163.2	148.9	139.2	130.6	129.1
40°	4028.9	3475.7	1706.1	673.4	329.1	171.3	157.4	144.2	135.3	126.8	124.4
42.5°	4264.2	3662.6	1742.5	677.6	319.8	170.6	153.1	141.1	132.6	123.3	120.9
45°	4438.3	3819.2	1781.7	684.2	310.5	173.7	153.1	140.7	130.3	121.3	119.0
47.5°	4593.7	4003.0	1847.2	684.2	299.3	167.9	158.2	141.1	129.9	120.6	118.6
50°	4801.9	4254.9	1971.2	668.3	283.4	161.7	166.7	139.6	126.4	119.0	116.7
52.5°	5088.8	4577.9	2168.2	640.8	259.0	149.6	165.5	138.8	122.9	115.1	112.4
55°	5428.0	4923.6	2382.9	608.6	222.5	141.1	159.7	136.8	119.0	110.5	107.8
57.5°	5692.8	5161.7	2534.1	559.0	190.7	136.5	141.5	134.9	114.4	105.4	103.1
60°	5798.2	5152.4	2575.6	492.7	175.2	132.6	123.7	151.2	110.5	101.6	98.9
62.5°	5741.2	4914.3	2459.3	446.2	171.7	127.5	115.9	139.9	107.4	98.9	95.0
65°	5478.0	4492.6	2151.1	433.8	181.8	122.5	110.9	109.7	103.1	95.0	91.1
67.5°	4904.6	3862.2	1722.4	435.0	194.6	117.5	105.8	100.4	97.3	90.7	87.2
70°	3994.8	3053.6	1283.9	438.1	201.2	111.6	100.4	94.6	91.1	84.5	82.2
72.5°	2937.3	2353.5	932.7	417.9	202.4	105.1	93.0	88.0	84.5	77.5	75.6
75°	2009.6	1800.3	647.0	346.2	176.4	95.8	84.9	80.2	77.9	69.4	68.2
77.5°	1468.1	1351.4	414.0	257.0	136.1	84.1	74.8	71.3	69.8	60.5	58.9
80°	1178.1	1069.2	259.0	176.0	99.6	70.6	62.8	60.9	59.3	50.0	48.8
82.5°	817.2	716.0	166.3	114.4	74.8	54.7	49.6	48.8	46.5	38.0	36.8
85°	431.1	388.8	105.4	77.9	54.3	37.6	34.5	34.5	33.3	25.2	24.4
87.5°	55.0	89.5	53.5	40.7	29.8	16.7	16.7	16.3	17.4	14.3	12.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5
2.5°	1925.5	1944.1	1926.3	1927.4	1947.2	2006.1	2032.9	2055.0	2078.6	2094.1	2101.1
5°	1395.6	1439.0	1453.7	1484.7	1530.5	1605.7	1635.5	1657.2	1671.6	1680.1	1683.6
7.5°	954.4	980.8	1010.2	1060.2	1159.9	1204.1	1223.8	1218.8	1202.5	1196.7	1190.9
10°	719.5	709.0	703.6	731.1	811.8	856.3	870.3	856.7	847.8	849.7	859.4
12.5°	557.5	539.2	517.1	514.0	567.1	607.1	616.0	616.8	633.0	647.4	668.7
15°	406.3	404.3	393.5	386.9	417.1	449.7	453.6	460.5	475.3	485.7	504.3
17.5°	286.5	296.9	305.5	309.7	332.6	355.9	351.6	348.1	345.4	345.4	354.3
20°	231.0	238.0	248.9	261.3	284.5	300.8	290.4	276.4	266.3	263.2	264.4
22.5°	208.2	213.6	219.8	230.7	251.6	262.8	251.6	241.5	231.4	227.9	226.8
25°	196.5	203.5	209.3	217.5	233.0	240.7	229.9	222.5	216.3	212.0	208.9
27.5°	190.0	196.2	197.7	201.6	214.8	221.7	216.3	213.2	209.3	205.5	201.6
30°	183.0	181.8	179.1	179.5	190.0	196.9	196.5	197.3	196.9	195.8	195.0
32.5°	167.1	164.8	162.4	164.8	174.4	180.6	181.0	182.6	182.6	182.2	185.3
35°	139.2	143.4	146.1	153.1	164.8	170.2	167.9	164.0	157.0	152.7	152.3
37.5°	128.7	129.5	134.1	143.8	156.6	161.7	158.2	149.2	144.6	143.8	145.0
40°	123.7	124.4	127.2	136.1	148.9	153.9	150.8	144.2	139.9	139.6	141.5
42.5°	120.2	120.9	122.5	128.7	139.2	145.4	145.8	141.1	136.1	136.5	138.4
45°	118.2	118.6	118.2	121.3	131.0	138.4	141.5	138.4	134.1	134.9	137.2
47.5°	117.8	116.7	115.1	115.9	126.0	133.4	137.2	136.1	134.1	134.9	136.8
50°	116.3	113.6	111.6	111.3	121.3	129.1	132.6	132.6	133.4	134.9	136.8
52.5°	111.6	108.5	108.5	107.4	118.2	125.6	127.9	128.3	129.5	132.2	134.9
55°	105.8	104.7	105.8	103.9	115.9	122.9	124.1	124.8	125.6	127.9	131.8
57.5°	100.8	99.2	102.0	101.2	114.0	120.2	120.2	121.7	121.7	124.8	127.9
60°	98.1	95.0	96.1	96.9	111.3	117.8	117.1	118.6	119.4	122.1	124.4
62.5°	94.6	91.9	91.9	93.8	108.2	114.4	114.0	115.1	118.2	119.0	121.3
65°	90.3	89.2	88.0	90.3	105.1	110.5	110.9	112.4	115.1	115.9	117.8
67.5°	86.1	86.4	84.1	86.4	102.3	106.6	106.6	109.7	110.9	112.4	114.4
70°	81.4	81.8	79.9	82.6	100.4	102.3	102.0	106.2	107.0	108.2	110.1
72.5°	75.6	75.6	74.8	78.7	97.3	98.1	97.3	100.8	101.2	102.3	103.1
75°	69.4	69.4	68.6	74.0	95.4	93.4	91.1	93.8	94.6	95.4	95.4
77.5°	61.2	62.0	62.0	68.6	88.8	91.5	83.7	85.3	86.4	86.8	85.7
80°	51.2	53.1	53.9	62.4	74.4	84.5	74.8	76.0	76.4	76.4	74.8
82.5°	39.2	42.6	44.6	53.9	57.0	70.9	65.1	66.3	65.1	62.8	62.0
85°	27.1	31.8	34.1	41.1	43.0	54.7	54.3	54.3	51.9	48.8	48.5
87.5°	14.7	17.4	19.0	24.4	29.5	36.8	39.9	38.8	36.8	34.9	35.3
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°	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5
2.5°	2137.5	2190.3	2274.4	2338.7	2403.5	2465.9	2533.3	2584.9	2628.7	2645.8	2697.7
5°	1718.9	1784.8	1864.2	2007.7	2109.2	2221.3	2350.8	2522.1	2588.0	2679.1	2828.4
7.5°	1215.3	1275.0	1402.9	1518.8	1662.7	1821.2	1996.1	2232.5	2319.0	2465.1	2708.2
10°	907.5	976.9	1079.6	1177.3	1304.1	1466.1	1666.9	1931.3	2036.4	2194.9	2474.8
12.5°	731.1	812.9	921.9	1013.7	1111.8	1226.2	1421.2	1711.1	1851.8	1990.6	2273.6
15°	561.7	647.4	748.6	865.3	973.4	1096.7	1301.0	1618.1	1780.1	1924.7	2166.2
17.5°	388.8	462.1	589.6	711.4	849.7	1007.5	1267.6	1637.9	1831.3	1998.0	2184.8
20°	275.6	317.5	422.2	563.3	735.8	933.9	1261.4	1741.7	1993.3	2183.7	2304.2
22.5°	231.8	247.3	308.2	437.7	636.9	878.8	1283.1	1887.5	2212.0	2455.0	2494.6
25°	211.3	220.6	252.4	343.5	548.9	838.9	1356.4	2104.6	2482.6	2726.4	2719.4
27.5°	200.0	209.7	230.7	290.0	482.6	814.1	1429.7	2362.0	2791.9	3021.0	2934.2
30°	196.5	209.7	231.8	273.3	435.3	774.9	1489.8	2588.0	3029.9	3219.9	3031.9
32.5°	193.8	195.8	205.8	235.7	390.4	729.2	1530.5	2790.7	3262.9	3409.1	3172.6
35°	156.6	166.3	182.6	211.3	364.0	701.7	1530.5	2965.6	3492.4	3600.2	3306.7
37.5°	150.8	159.3	173.7	198.1	349.3	688.1	1499.8	3134.2	3726.9	3816.9	3417.2
40°	147.7	154.7	168.2	188.0	343.1	672.6	1455.3	3283.1	3956.0	4034.0	3520.3
42.5°	145.4	151.6	164.4	181.8	334.9	655.5	1419.2	3402.5	4154.9	4219.3	3618.8
45°	144.2	150.8	164.8	184.9	318.7	633.0	1407.2	3531.6	4318.5	4373.9	3725.4
47.5°	144.2	152.0	166.7	191.5	299.3	609.8	1444.8	3701.7	4473.2	4500.3	3851.0
50°	143.0	151.6	172.1	184.9	271.0	580.3	1533.2	3916.1	4640.7	4643.8	4009.9
52.5°	140.7	150.8	185.3	181.0	238.4	541.6	1652.6	4191.4	4888.4	4907.0	4258.8
55°	138.0	149.6	181.8	172.1	211.7	495.4	1750.3	4525.9	5236.5	5288.0	4624.8
57.5°	134.5	148.1	176.0	159.7	194.2	436.1	1785.6	4770.9	5479.5	5609.0	5037.2
60°	131.4	146.9	158.9	152.3	183.4	386.1	1717.3	4722.4	5462.9	5742.0	5402.8
62.5°	128.3	148.1	145.0	147.7	178.3	353.9	1539.0	4334.4	5186.5	5604.8	5673.8
65°	124.8	137.6	136.8	143.8	177.2	341.1	1275.8	3752.5	4652.3	5171.0	5737.7
67.5°	120.2	127.2	131.0	138.8	181.0	329.9	1029.6	3095.4	3909.9	4520.9	5404.3
70°	115.1	120.9	125.2	132.6	178.7	324.9	856.3	2441.1	3102.4	3705.2	4746.5
72.5°	108.5	113.6	117.5	124.4	176.4	322.1	723.4	1965.8	2316.3	2752.4	3859.1
75°	100.8	105.4	108.2	115.1	169.0	295.0	568.7	1663.4	1733.2	1914.6	3073.7
77.5°	91.9	95.4	97.7	105.4	149.6	245.4	411.3	1283.1	1345.9	1390.1	2356.6
80°	81.4	84.9	86.1	93.4	124.1	191.9	268.3	947.8	1006.7	1016.8	1539.0
82.5°	69.4	72.9	72.9	79.9	101.6	138.0	176.0	649.3	661.0	695.1	1087.8
85°	55.8	58.5	58.5	62.0	78.7	103.1	120.9	326.0	322.5	368.3	942.4
87.5°	39.9	41.9	43.8	44.6	56.2	68.2	72.9	99.2	65.5	75.2	605.1
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5	2382.5
2.5°	2736.9	2759.0	2736.5	2720.2	2650.0	2592.3	2515.1	2475.6
5°	2941.9	2998.1	2979.2	2910.9	2764.4	2599.6	2412.4	2327.9
7.5°	2917.1	3047.8	3050.9	2923.3	2707.4	2464.7	2211.2	2091.0
10°	2724.1	2891.2	2938.8	2815.2	2586.1	2314.7	2024.0	1886.7
12.5°	2508.5	2672.1	2708.6	2665.9	2474.4	2201.9	1906.9	1772.4
15°	2332.1	2405.4	2448.8	2486.1	2378.7	2156.9	1900.3	1752.6
17.5°	2224.8	2216.6	2229.0	2293.8	2312.0	2208.5	2001.1	1838.3
20°	2186.0	2061.6	2058.5	2147.6	2280.6	2331.4	2198.0	2002.6
22.5°	2207.3	2005.7	1980.2	2086.0	2297.3	2508.5	2456.2	2233.3
25°	2281.0	2010.4	1989.8	2092.2	2357.7	2697.3	2734.9	2531.8
27.5°	2396.9	2039.9	2012.7	2117.8	2438.0	2855.9	3009.4	2821.0
30°	2507.0	2091.0	2057.3	2168.2	2511.2	2918.7	3177.6	3046.6
32.5°	2640.7	2186.8	2127.5	2260.8	2602.0	3018.7	3327.7	3233.5
35°	2771.8	2323.2	2249.6	2403.9	2703.1	3143.1	3499.0	3472.3
37.5°	2915.6	2501.6	2440.7	2588.8	2841.5	3260.6	3717.6	3752.1
40°	3069.1	2738.0	2665.9	2858.6	3056.3	3407.9	3946.0	4028.9
42.5°	3223.8	3000.5	2914.4	3109.8	3292.4	3553.3	4141.3	4264.2
45°	3400.9	3285.4	3244.7	3456.0	3519.2	3691.7	4285.6	4438.3
47.5°	3607.2	3608.7	3674.2	3758.7	3747.9	3848.3	4430.5	4593.7
50°	3847.9	4012.3	4156.9	4213.1	3983.6	4016.5	4631.7	4801.9
52.5°	4137.1	4494.9	4674.0	4637.2	4237.5	4222.0	4950.4	5088.8
55°	4498.8	5005.8	5183.8	5157.4	4529.4	4501.9	5347.4	5428.0
57.5°	4917.4	5500.9	5664.5	5545.8	4879.8	4808.9	5675.7	5692.8
60°	5285.3	5893.2	6036.6	5905.2	5233.4	5135.7	5880.8	5798.2
62.5°	5490.0	6026.1	6126.9	5985.4	5475.7	5483.8	5925.7	5741.2
65°	5398.5	5690.0	5722.6	5711.0	5413.3	5685.8	5764.1	5478.0
67.5°	4897.7	4840.3	4895.0	4970.5	4878.3	5419.8	5316.3	4904.6
70°	4015.4	3700.2	3809.1	3859.9	3901.8	4663.9	4614.3	3994.8
72.5°	3026.1	2592.3	2678.3	2667.9	2861.7	3740.9	3588.5	2937.3
75°	2144.1	1757.6	1768.5	1764.2	1996.8	2926.8	2598.5	2009.6
77.5°	1500.2	1273.5	1279.3	1303.3	1342.5	2207.3	1856.5	1468.1
80°	1031.6	966.4	998.6	1000.5	930.4	1482.8	1371.5	1178.1
82.5°	768.3	671.8	664.1	675.3	729.2	1201.4	1054.0	817.2
85°	629.2	397.7	319.8	400.8	646.2	1189.7	700.1	431.1
87.5°	354.3	188.8	85.3	158.2	257.8	787.7	202.4	55.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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