

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: P192070

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192070
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-SLL-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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

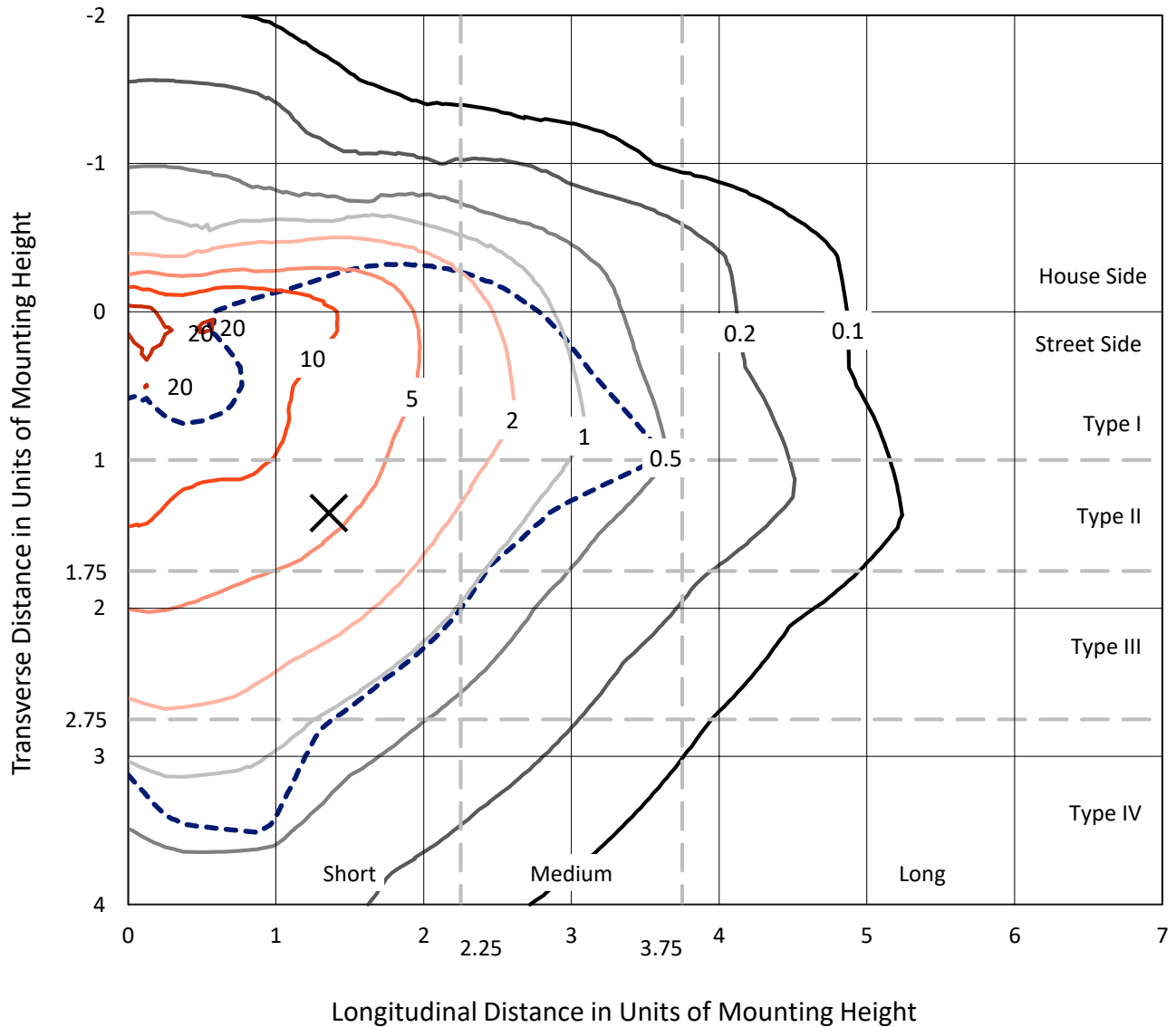
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

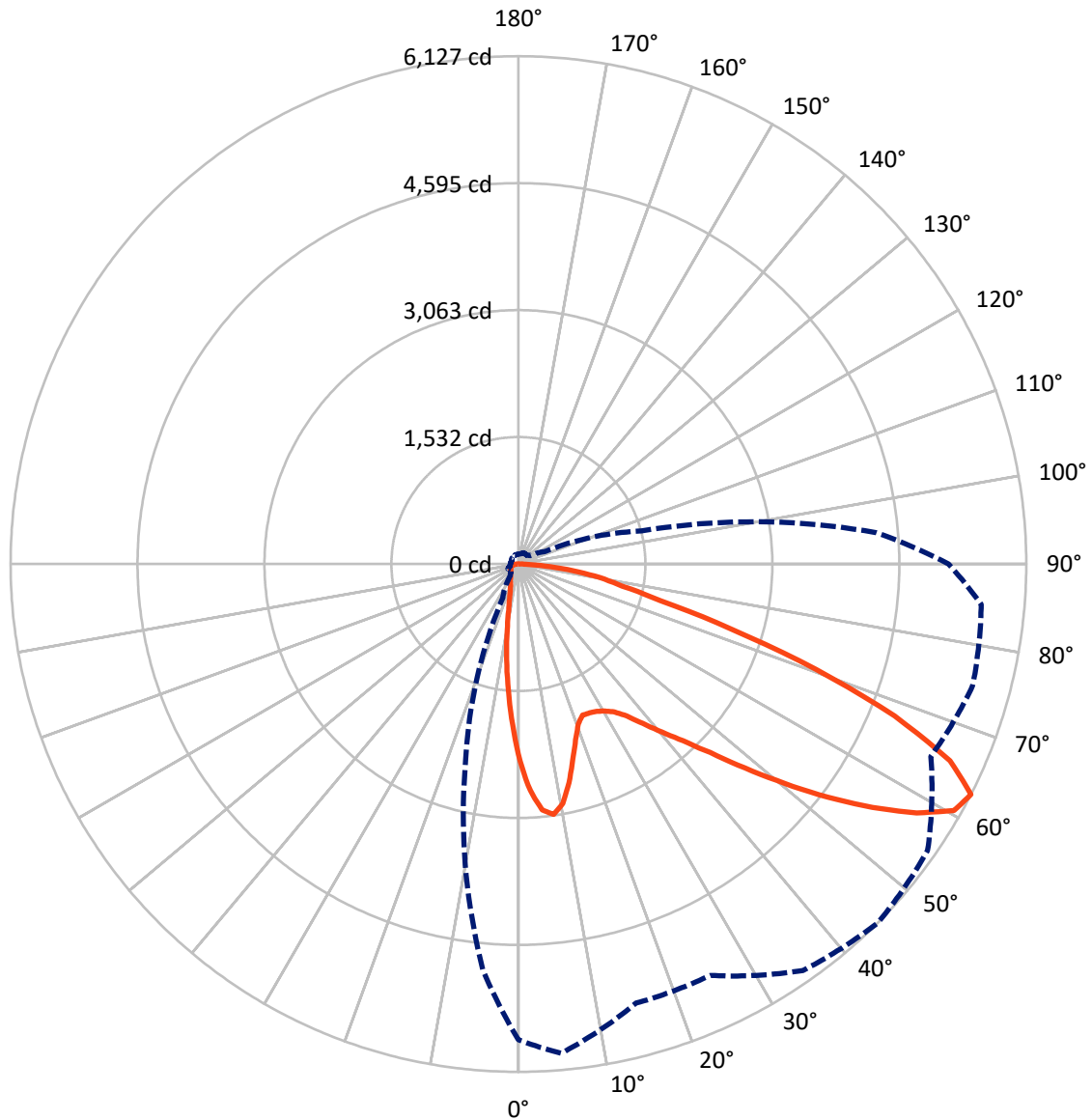
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28 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	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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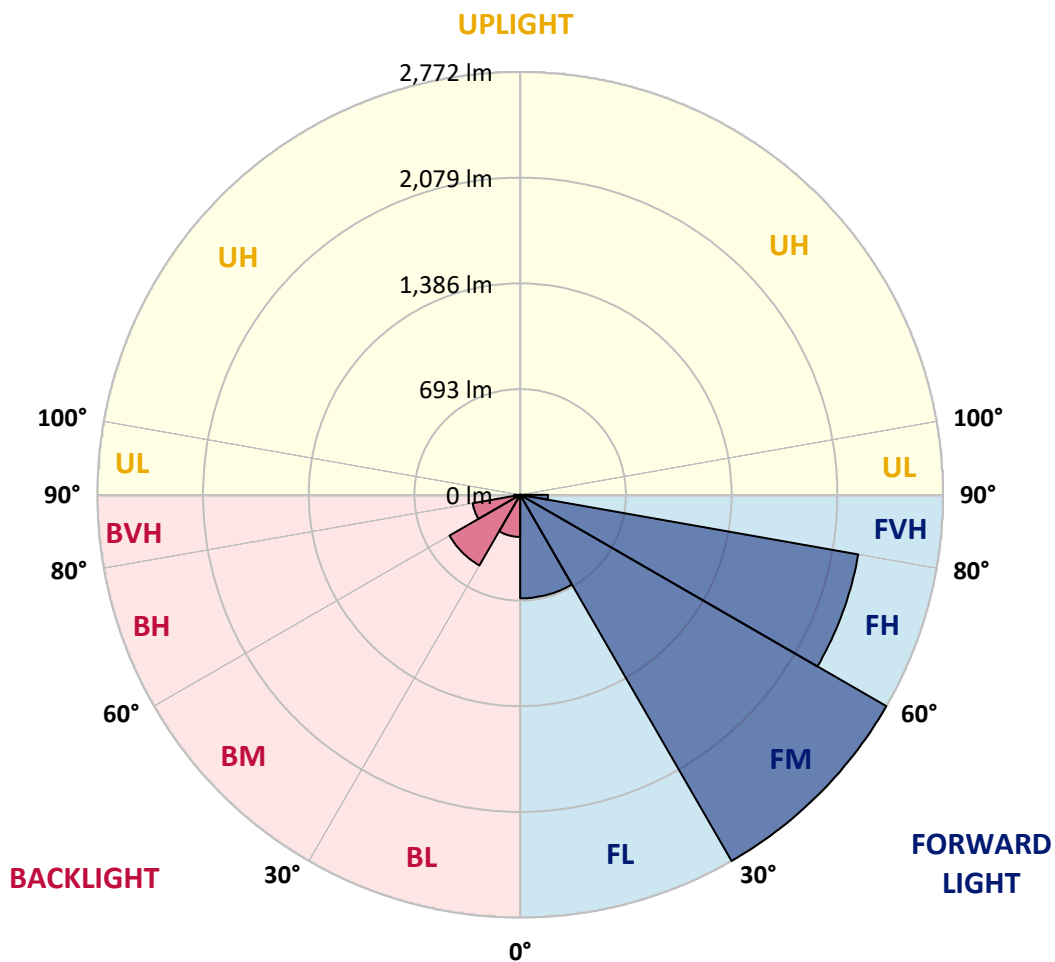
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7050-600

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	2515.1	2592.3	2650.0	2720.2	2736.5	2759.0	2736.9	2697.7	2645.8	2628.7
5°	2327.9	2412.4	2599.6	2764.4	2910.9	2979.2	2998.1	2941.9	2828.4	2679.1	2588.0
7.5°	2091.0	2211.2	2464.7	2707.4	2923.3	3050.9	3047.8	2917.1	2708.2	2465.1	2319.0
10°	1886.7	2024.0	2314.7	2586.1	2815.2	2938.8	2891.2	2724.1	2474.8	2194.9	2036.4
12.5°	1772.4	1906.9	2201.9	2474.4	2665.9	2708.6	2672.1	2508.5	2273.6	1990.6	1851.8
15°	1752.6	1900.3	2156.9	2378.7	2486.1	2448.8	2405.4	2332.1	2166.2	1924.7	1780.1
17.5°	1838.3	2001.1	2208.5	2312.0	2293.8	2229.0	2216.6	2224.8	2184.8	1998.0	1831.3
20°	2002.6	2198.0	2331.4	2280.6	2147.6	2058.5	2061.6	2186.0	2304.2	2183.7	1993.3
22.5°	2233.3	2456.2	2508.5	2297.3	2086.0	1980.2	2005.7	2207.3	2494.6	2455.0	2212.0
25°	2531.8	2734.9	2697.3	2357.7	2092.2	1989.8	2010.4	2281.0	2719.4	2726.4	2482.6
27.5°	2821.0	3009.4	2855.9	2438.0	2117.8	2012.7	2039.9	2396.9	2934.2	3021.0	2791.9
30°	3046.6	3177.6	2918.7	2511.2	2168.2	2057.3	2091.0	2507.0	3031.9	3219.9	3029.9
32.5°	3233.5	3327.7	3018.7	2602.0	2260.8	2127.5	2186.8	2640.7	3172.6	3409.1	3262.9
35°	3472.3	3499.0	3143.1	2703.1	2403.9	2249.6	2323.2	2771.8	3306.7	3600.2	3492.4
37.5°	3752.1	3717.6	3260.6	2841.5	2588.8	2440.7	2501.6	2915.6	3417.2	3816.9	3726.9
40°	4028.9	3946.0	3407.9	3056.3	2858.6	2665.9	2738.0	3069.1	3520.3	4034.0	3956.0
42.5°	4264.2	4141.3	3553.3	3292.4	3109.8	2914.4	3000.5	3223.8	3618.8	4219.3	4154.9
45°	4438.3	4285.6	3691.7	3519.2	3456.0	3244.7	3285.4	3400.9	3725.4	4373.9	4318.5
47.5°	4593.7	4430.5	3848.3	3747.9	3758.7	3674.2	3608.7	3607.2	3851.0	4500.3	4473.2
50°	4801.9	4631.7	4016.5	3983.6	4213.1	4156.9	4012.3	3847.9	4009.9	4643.8	4640.7
52.5°	5088.8	4950.4	4222.0	4237.5	4637.2	4674.0	4494.9	4137.1	4258.8	4907.0	4888.4
55°	5428.0	5347.4	4501.9	4529.4	5157.4	5183.8	5005.8	4498.8	4624.8	5288.0	5236.5
57.5°	5692.8	5675.7	4808.9	4879.8	5545.8	5664.5	5500.9	4917.4	5037.2	5609.0	5479.5
60°	5798.2	5880.8	5135.7	5233.4	5905.2	6036.6	5893.2	5285.3	5402.8	5742.0	5462.9
62.5°	5741.2	5925.7	5483.8	5475.7	5985.4	6126.9	6026.1	5490.0	5673.8	5604.8	5186.5
65°	5478.0	5764.1	5685.8	5413.3	5711.0	5722.6	5690.0	5398.5	5737.7	5171.0	4652.3
67.5°	4904.6	5316.3	5419.8	4878.3	4970.5	4895.0	4840.3	4897.7	5404.3	4520.9	3909.9
70°	3994.8	4614.3	4663.9	3901.8	3859.9	3809.1	3700.2	4015.4	4746.5	3705.2	3102.4
72.5°	2937.3	3588.5	3740.9	2861.7	2667.9	2678.3	2592.3	3026.1	3859.1	2752.4	2316.3
75°	2009.6	2598.5	2926.8	1996.8	1764.2	1768.5	1757.6	2144.1	3073.7	1914.6	1733.2
77.5°	1468.1	1856.5	2207.3	1342.5	1303.3	1279.3	1273.5	1500.2	2356.6	1390.1	1345.9
80°	1178.1	1371.5	1482.8	930.4	1000.5	998.6	966.4	1031.6	1539.0	1016.8	1006.7
82.5°	817.2	1054.0	1201.4	729.2	675.3	664.1	671.8	768.3	1087.8	695.1	661.0
85°	431.1	700.1	1189.7	646.2	400.8	319.8	397.7	629.2	942.4	368.3	322.5
87.5°	55.0	202.4	787.7	257.8	158.2	85.3	188.8	354.3	605.1	75.2	65.5
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°	2584.9	2533.3	2465.9	2403.5	2338.7	2274.4	2190.3	2137.5	2101.1	2094.1	2078.6
5°	2522.1	2350.8	2221.3	2109.2	2007.7	1864.2	1784.8	1718.9	1683.6	1680.1	1671.6
7.5°	2232.5	1996.1	1821.2	1662.7	1518.8	1402.9	1275.0	1215.3	1190.9	1196.7	1202.5
10°	1931.3	1666.9	1466.1	1304.1	1177.3	1079.6	976.9	907.5	859.4	849.7	847.8
12.5°	1711.1	1421.2	1226.2	1111.8	1013.7	921.9	812.9	731.1	668.7	647.4	633.0
15°	1618.1	1301.0	1096.7	973.4	865.3	748.6	647.4	561.7	504.3	485.7	475.3
17.5°	1637.9	1267.6	1007.5	849.7	711.4	589.6	462.1	388.8	354.3	345.4	345.4
20°	1741.7	1261.4	933.9	735.8	563.3	422.2	317.5	275.6	264.4	263.2	266.3
22.5°	1887.5	1283.1	878.8	636.9	437.7	308.2	247.3	231.8	226.8	227.9	231.4
25°	2104.6	1356.4	838.9	548.9	343.5	252.4	220.6	211.3	208.9	212.0	216.3
27.5°	2362.0	1429.7	814.1	482.6	290.0	230.7	209.7	200.0	201.6	205.5	209.3
30°	2588.0	1489.8	774.9	435.3	273.3	231.8	209.7	196.5	195.0	195.8	196.9
32.5°	2790.7	1530.5	729.2	390.4	235.7	205.8	195.8	193.8	185.3	182.2	182.6
35°	2965.6	1530.5	701.7	364.0	211.3	182.6	166.3	156.6	152.3	152.7	157.0
37.5°	3134.2	1499.8	688.1	349.3	198.1	173.7	159.3	150.8	145.0	143.8	144.6
40°	3283.1	1455.3	672.6	343.1	188.0	168.2	154.7	147.7	141.5	139.6	139.9
42.5°	3402.5	1419.2	655.5	334.9	181.8	164.4	151.6	145.4	138.4	136.5	136.1
45°	3531.6	1407.2	633.0	318.7	184.9	164.8	150.8	144.2	137.2	134.9	134.1
47.5°	3701.7	1444.8	609.8	299.3	191.5	166.7	152.0	144.2	136.8	134.9	134.1
50°	3916.1	1533.2	580.3	271.0	184.9	172.1	151.6	143.0	136.8	134.9	133.4
52.5°	4191.4	1652.6	541.6	238.4	181.0	185.3	150.8	140.7	134.9	132.2	129.5
55°	4525.9	1750.3	495.4	211.7	172.1	181.8	149.6	138.0	131.8	127.9	125.6
57.5°	4770.9	1785.6	436.1	194.2	159.7	176.0	148.1	134.5	127.9	124.8	121.7
60°	4722.4	1717.3	386.1	183.4	152.3	158.9	146.9	131.4	124.4	122.1	119.4
62.5°	4334.4	1539.0	353.9	178.3	147.7	145.0	148.1	128.3	121.3	119.0	118.2
65°	3752.5	1275.8	341.1	177.2	143.8	136.8	137.6	124.8	117.8	115.9	115.1
67.5°	3095.4	1029.6	329.9	181.0	138.8	131.0	127.2	120.2	114.4	112.4	110.9
70°	2441.1	856.3	324.9	178.7	132.6	125.2	120.9	115.1	110.1	108.2	107.0
72.5°	1965.8	723.4	322.1	176.4	124.4	117.5	113.6	108.5	103.1	102.3	101.2
75°	1663.4	568.7	295.0	169.0	115.1	108.2	105.4	100.8	95.4	95.4	94.6
77.5°	1283.1	411.3	245.4	149.6	105.4	97.7	95.4	91.9	85.7	86.8	86.4
80°	947.8	268.3	191.9	124.1	93.4	86.1	84.9	81.4	74.8	76.4	76.4
82.5°	649.3	176.0	138.0	101.6	79.9	72.9	72.9	69.4	62.0	62.8	65.1
85°	326.0	120.9	103.1	78.7	62.0	58.5	58.5	55.8	48.5	48.8	51.9
87.5°	99.2	72.9	68.2	56.2	44.6	43.8	41.9	39.9	35.3	34.9	36.8
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):

	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°	2055.0	2032.9	2006.1	1947.2	1927.4	1926.3	1944.1	1925.5	1961.2	1946.0	1962.7
5°	1657.2	1635.5	1605.7	1530.5	1484.7	1453.7	1439.0	1395.6	1427.0	1404.1	1423.1
7.5°	1218.8	1223.8	1204.1	1159.9	1060.2	1010.2	980.8	954.4	977.3	975.0	1011.4
10°	856.7	870.3	856.3	811.8	731.1	703.6	709.0	719.5	749.3	764.8	821.1
12.5°	616.8	616.0	607.1	567.1	514.0	517.1	539.2	557.5	585.0	601.3	658.6
15°	460.5	453.6	449.7	417.1	386.9	393.5	404.3	406.3	423.7	433.4	479.9
17.5°	348.1	351.6	355.9	332.6	309.7	305.5	296.9	286.5	291.5	293.5	316.7
20°	276.4	290.4	300.8	284.5	261.3	248.9	238.0	231.0	231.0	230.7	237.2
22.5°	241.5	251.6	262.8	251.6	230.7	219.8	213.6	208.2	207.4	207.4	213.6
25°	222.5	229.9	240.7	233.0	217.5	209.3	203.5	196.5	193.8	193.1	197.3
27.5°	213.2	216.3	221.7	214.8	201.6	197.7	196.2	190.0	186.5	184.5	188.8
30°	197.3	196.5	196.9	190.0	179.5	179.1	181.8	183.0	181.8	181.4	188.0
32.5°	182.6	181.0	180.6	174.4	164.8	162.4	164.8	167.1	169.8	173.7	181.4
35°	164.0	167.9	170.2	164.8	153.1	146.1	143.4	139.2	136.8	136.8	145.8
37.5°	149.2	158.2	161.7	156.6	143.8	134.1	129.5	128.7	129.1	130.6	139.2
40°	144.2	150.8	153.9	148.9	136.1	127.2	124.4	123.7	124.4	126.8	135.3
42.5°	141.1	145.8	145.4	139.2	128.7	122.5	120.9	120.2	120.9	123.3	132.6
45°	138.4	141.5	138.4	131.0	121.3	118.2	118.6	118.2	119.0	121.3	130.3
47.5°	136.1	137.2	133.4	126.0	115.9	115.1	116.7	117.8	118.6	120.6	129.9
50°	132.6	132.6	129.1	121.3	111.3	111.6	113.6	116.3	116.7	119.0	126.4
52.5°	128.3	127.9	125.6	118.2	107.4	108.5	108.5	111.6	112.4	115.1	122.9
55°	124.8	124.1	122.9	115.9	103.9	105.8	104.7	105.8	107.8	110.5	119.0
57.5°	121.7	120.2	120.2	114.0	101.2	102.0	99.2	100.8	103.1	105.4	114.4
60°	118.6	117.1	117.8	111.3	96.9	96.1	95.0	98.1	98.9	101.6	110.5
62.5°	115.1	114.0	114.4	108.2	93.8	91.9	91.9	94.6	95.0	98.9	107.4
65°	112.4	110.9	110.5	105.1	90.3	88.0	89.2	90.3	91.1	95.0	103.1
67.5°	109.7	106.6	106.6	102.3	86.4	84.1	86.4	86.1	87.2	90.7	97.3
70°	106.2	102.0	102.3	100.4	82.6	79.9	81.8	81.4	82.2	84.5	91.1
72.5°	100.8	97.3	98.1	97.3	78.7	74.8	75.6	75.6	75.6	77.5	84.5
75°	93.8	91.1	93.4	95.4	74.0	68.6	69.4	69.4	68.2	69.4	77.9
77.5°	85.3	83.7	91.5	88.8	68.6	62.0	62.0	61.2	58.9	60.5	69.8
80°	76.0	74.8	84.5	74.4	62.4	53.9	53.1	51.2	48.8	50.0	59.3
82.5°	66.3	65.1	70.9	57.0	53.9	44.6	42.6	39.2	36.8	38.0	46.5
85°	54.3	54.3	54.7	43.0	41.1	34.1	31.8	27.1	24.4	25.2	33.3
87.5°	38.8	39.9	36.8	29.5	24.4	19.0	17.4	14.7	12.4	14.3	17.4
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):

	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°	2048.0	2090.6	2139.1	2201.1	2254.2	2341.5	2425.2	2475.6
5°	1531.2	1602.2	1690.6	1804.2	1910.0	2068.9	2226.7	2327.9
7.5°	1095.9	1171.9	1267.3	1409.1	1558.8	1761.5	1970.1	2091.0
10°	906.7	984.7	1064.9	1160.6	1283.1	1503.7	1750.3	1886.7
12.5°	750.1	833.5	919.9	1020.7	1134.3	1331.2	1615.4	1772.4
15°	574.1	667.2	769.1	896.7	1038.9	1266.5	1582.0	1752.6
17.5°	393.5	497.4	622.6	780.0	954.0	1245.5	1641.7	1838.3
20°	271.0	346.6	480.3	664.8	874.2	1242.8	1756.5	2002.6
22.5°	226.8	260.5	358.2	559.0	814.1	1276.2	1934.4	2233.3
25°	209.7	229.9	286.1	467.1	770.3	1352.9	2179.4	2531.8
27.5°	199.6	217.9	259.7	407.0	735.8	1442.1	2417.8	2821.0
30°	203.5	222.1	252.4	376.4	688.9	1516.5	2629.5	3046.6
32.5°	183.4	191.5	216.3	349.3	655.1	1578.9	2814.8	3233.5
35°	156.2	170.6	193.1	336.5	655.9	1620.8	3016.8	3472.3
37.5°	148.9	163.2	179.5	331.8	664.8	1665.4	3248.6	3752.1
40°	144.2	157.4	171.3	329.1	673.4	1706.1	3475.7	4028.9
42.5°	141.1	153.1	170.6	319.8	677.6	1742.5	3662.6	4264.2
45°	140.7	153.1	173.7	310.5	684.2	1781.7	3819.2	4438.3
47.5°	141.1	158.2	167.9	299.3	684.2	1847.2	4003.0	4593.7
50°	139.6	166.7	161.7	283.4	668.3	1971.2	4254.9	4801.9
52.5°	138.8	165.5	149.6	259.0	640.8	2168.2	4577.9	5088.8
55°	136.8	159.7	141.1	222.5	608.6	2382.9	4923.6	5428.0
57.5°	134.9	141.5	136.5	190.7	559.0	2534.1	5161.7	5692.8
60°	151.2	123.7	132.6	175.2	492.7	2575.6	5152.4	5798.2
62.5°	139.9	115.9	127.5	171.7	446.2	2459.3	4914.3	5741.2
65°	109.7	110.9	122.5	181.8	433.8	2151.1	4492.6	5478.0
67.5°	100.4	105.8	117.5	194.6	435.0	1722.4	3862.2	4904.6
70°	94.6	100.4	111.6	201.2	438.1	1283.9	3053.6	3994.8
72.5°	88.0	93.0	105.1	202.4	417.9	932.7	2353.5	2937.3
75°	80.2	84.9	95.8	176.4	346.2	647.0	1800.3	2009.6
77.5°	71.3	74.8	84.1	136.1	257.0	414.0	1351.4	1468.1
80°	60.9	62.8	70.6	99.6	176.0	259.0	1069.2	1178.1
82.5°	48.8	49.6	54.7	74.8	114.4	166.3	716.0	817.2
85°	34.5	34.5	37.6	54.3	77.9	105.4	388.8	431.1
87.5°	16.3	16.7	16.7	29.8	40.7	53.5	89.5	55.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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