

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: P269170

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269170
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-03-LED-E1-SLL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 9141.5 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

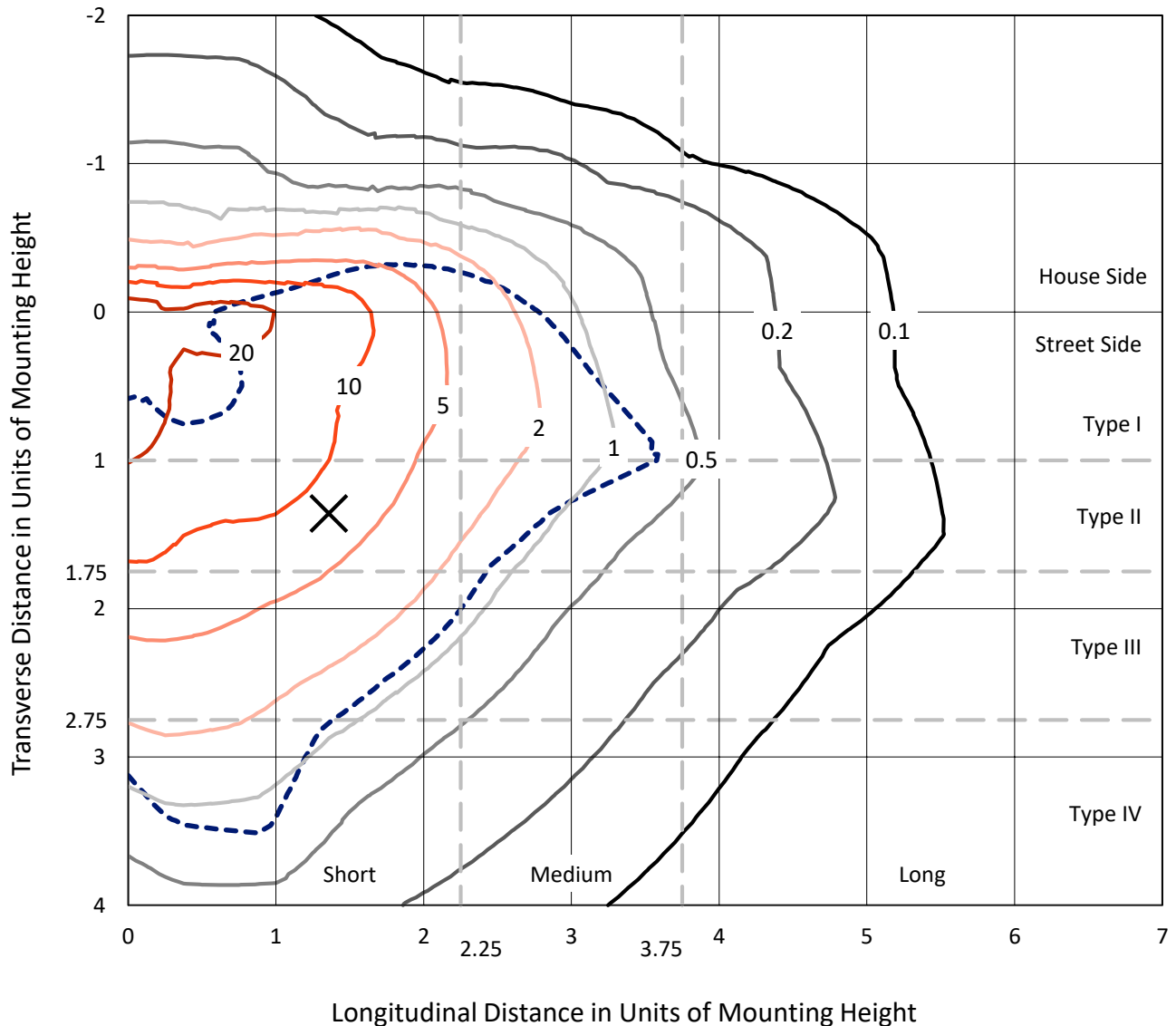
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

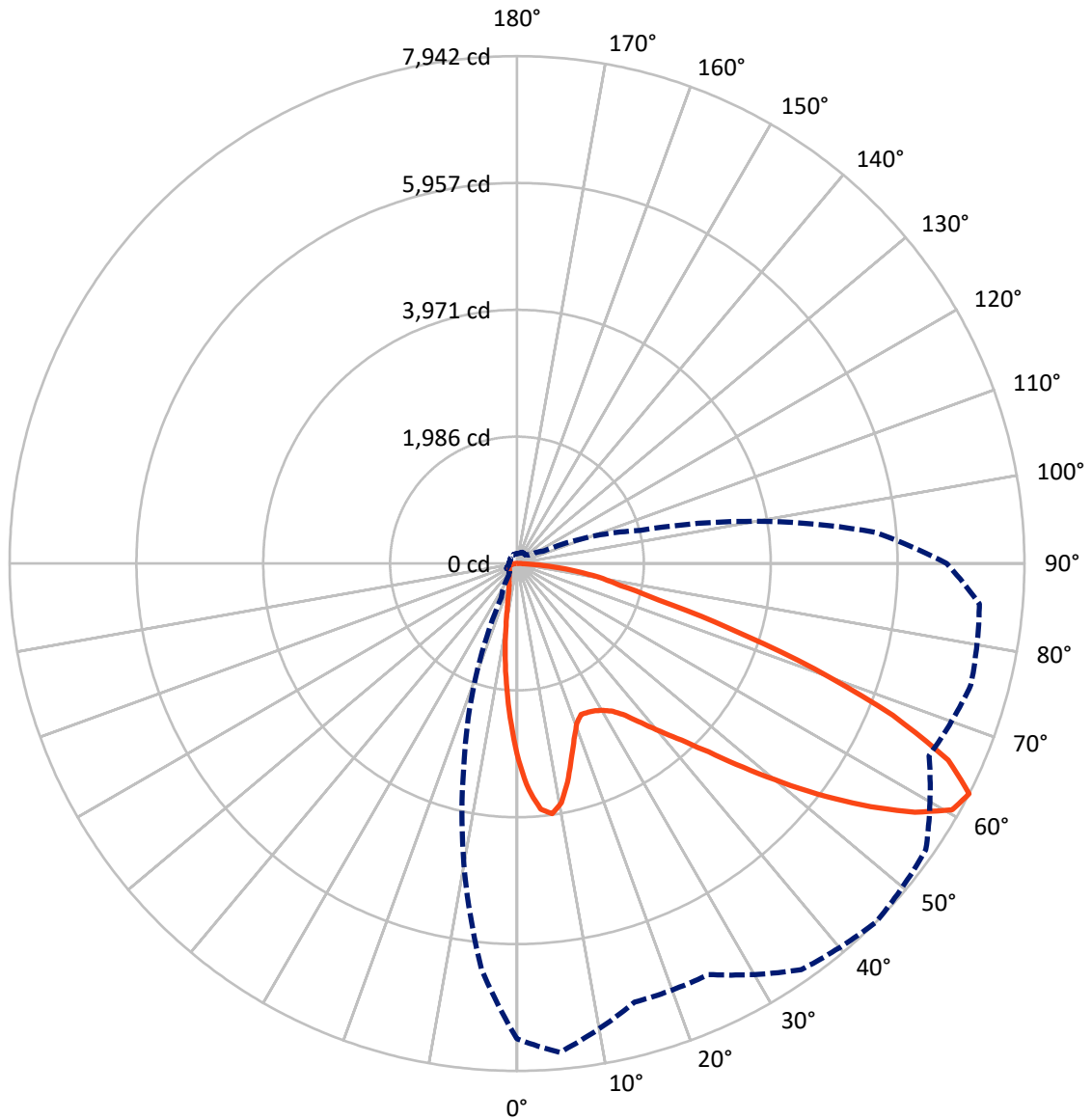
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 36.3 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	1512.8	0.0	1512.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7628.7	0.0	7628.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	9141.5	0.0	9141.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	2.5
10°-20°	412.3	4.5
20°-30°	601.1	6.6
30°-40°	925.8	10.1
40°-50°	1362.5	14.9
50°-60°	1998.5	21.9
60°-70°	2234.0	24.4
70°-80°	1093.7	12.0
80°-90°	288.8	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°	9141.5	100.0
0°-180°	9141.5	100.0



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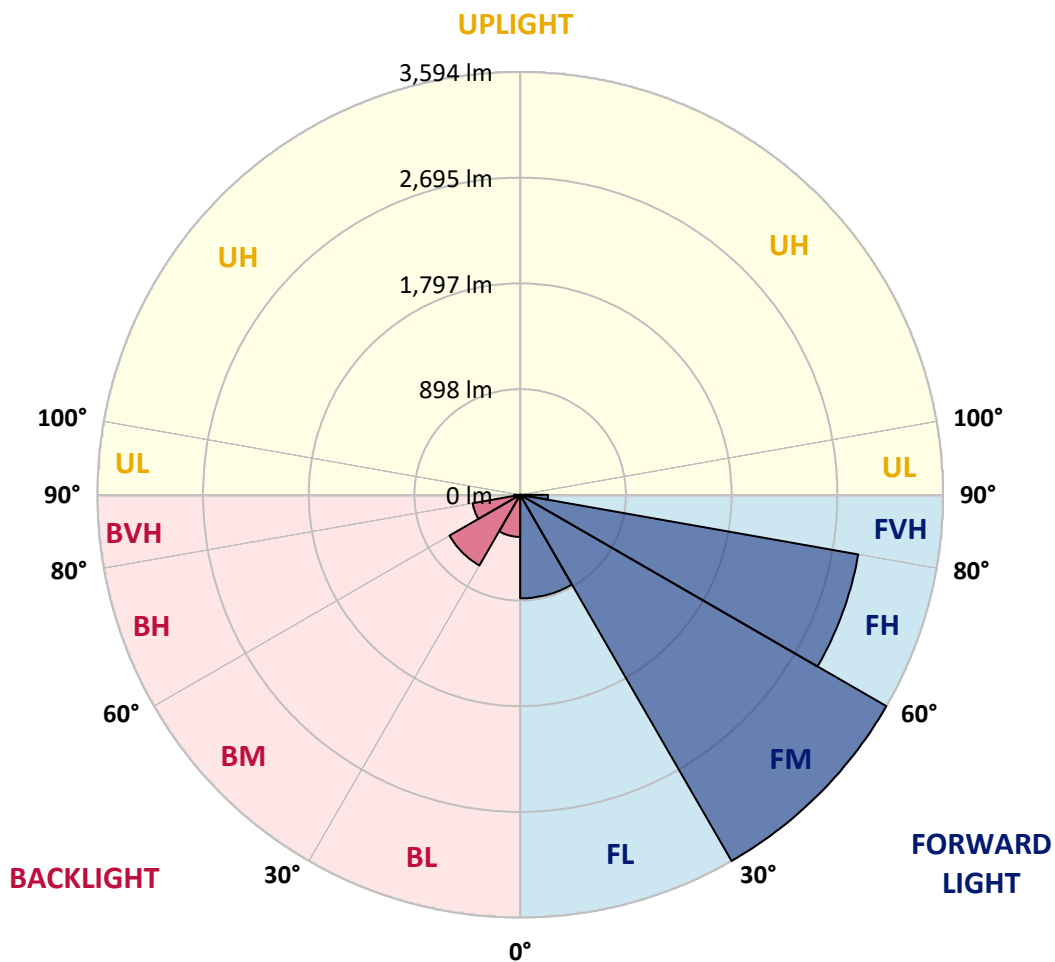
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.3	9.6			
FM (30°-60°)	3593.6	39.3			
FH (60°-80°)	2917.7	31.9			G2/5000
FVH (80°-90°)	237.1	2.6			G3/500
BL (0°-30°)	357.9	3.9	B1/500		
BM (30°-60°)	693.2	7.6	B1/1000		
BH (60°-80°)	410.1	4.5	B1/500		G1/500
BVH (80°-90°)	51.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	3209.1	3260.4	3360.4	3435.3	3526.1	3547.2	3576.4	3547.8	3497.0	3429.6	3407.6
5°	3017.6	3127.2	3369.9	3583.5	3773.4	3861.9	3886.4	3813.7	3666.4	3472.9	3354.8
7.5°	2710.5	2866.4	3195.0	3509.6	3789.5	3954.9	3950.8	3781.4	3510.7	3195.5	3006.1
10°	2445.7	2623.7	3000.6	3352.4	3649.4	3809.6	3747.8	3531.1	3208.0	2845.3	2639.8
12.5°	2297.5	2471.9	2854.4	3207.6	3455.8	3511.1	3463.9	3251.9	2947.2	2580.4	2400.5
15°	2272.0	2463.3	2796.1	3083.5	3222.7	3174.4	3118.1	3023.2	2808.1	2495.0	2307.6
17.5°	2382.9	2594.0	2862.9	2997.0	2973.4	2889.5	2873.4	2884.0	2832.1	2590.1	2374.0
20°	2596.0	2849.3	3022.2	2956.3	2783.9	2668.3	2672.4	2833.8	2987.0	2830.6	2584.0
22.5°	2895.0	3184.0	3251.9	2977.9	2704.1	2566.8	2600.1	2861.3	3233.7	3182.4	2867.4
25°	3282.0	3545.3	3496.6	3056.4	2712.2	2579.5	2606.1	2956.9	3525.2	3534.2	3218.2
27.5°	3656.8	3901.1	3702.1	3160.3	2745.3	2609.0	2644.3	3107.1	3803.7	3916.2	3619.1
30°	3949.3	4119.2	3783.5	3255.4	2810.5	2666.9	2710.5	3249.8	3930.3	4174.0	3927.7
32.5°	4191.5	4313.7	3913.1	3373.0	2930.7	2757.8	2834.7	3423.3	4112.6	4419.2	4229.7
35°	4501.0	4535.7	4074.4	3504.1	3116.1	2916.2	3011.6	3593.0	4286.5	4667.0	4527.2
37.5°	4864.0	4819.1	4226.7	3683.5	3355.9	3163.9	3242.8	3779.4	4429.7	4947.9	4831.3
40°	5222.7	5115.2	4417.7	3961.9	3705.6	3455.8	3549.4	3978.5	4563.4	5229.3	5128.2
42.5°	5527.7	5368.5	4606.1	4267.8	4031.2	3777.9	3889.5	4178.9	4690.9	5469.4	5386.0
45°	5753.4	5555.4	4785.5	4562.0	4479.9	4206.1	4258.9	4408.6	4829.2	5669.9	5598.1
47.5°	5954.9	5743.4	4988.6	4858.4	4872.4	4763.0	4678.0	4675.9	4992.1	5833.8	5798.6
50°	6224.7	6004.1	5206.7	5163.8	5461.3	5388.6	5201.0	4988.0	5198.1	6019.7	6015.7
52.5°	6596.7	6417.2	5473.0	5493.0	6011.2	6058.9	5826.8	5362.9	5520.8	6360.9	6336.9
55°	7036.3	6931.9	5835.7	5871.4	6685.5	6719.7	6489.0	5831.7	5995.1	6854.8	6788.0
57.5°	7379.5	7357.4	6233.8	6325.8	7189.0	7342.8	7130.7	6374.6	6529.8	7271.1	7103.2
60°	7516.2	7623.2	6657.3	6784.0	7654.8	7825.2	7639.4	6851.4	7003.6	7443.4	7081.5
62.5°	7442.4	7681.5	7108.6	7098.0	7758.9	7942.4	7811.8	7116.7	7355.0	7265.4	6723.3
65°	7101.1	7472.0	7370.5	7017.2	7403.1	7418.3	7376.1	6998.2	7437.8	6703.2	6030.7
67.5°	6357.9	6891.5	7025.7	6323.7	6443.4	6345.4	6274.5	6348.9	7005.6	5860.5	5068.4
70°	5178.5	5981.5	6045.9	5057.8	5003.6	4937.8	4796.6	5205.0	6152.9	4803.1	4021.7
72.5°	3807.6	4651.9	4849.3	3709.6	3458.4	3471.9	3360.4	3922.7	5002.7	3567.9	3002.6
75°	2605.1	3368.5	3794.0	2588.5	2286.9	2292.6	2278.5	2779.4	3984.5	2481.9	2246.8
77.5°	1903.1	2406.6	2861.3	1740.2	1689.5	1658.4	1650.7	1944.8	3054.9	1802.0	1744.8
80°	1527.2	1777.9	1922.2	1206.1	1297.1	1294.5	1252.7	1337.1	1995.0	1318.2	1305.1
82.5°	1059.3	1366.3	1557.3	945.2	875.4	860.8	870.8	996.0	1410.1	901.0	856.9
85°	558.7	907.6	1542.2	837.7	519.6	414.6	515.5	815.7	1221.7	477.4	418.2
87.5°	71.3	262.3	1021.2	334.2	205.1	110.5	244.7	459.4	784.4	97.5	84.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	3350.8	3283.9	3196.6	3115.6	3031.7	2948.2	2839.3	2770.9	2723.8	2714.6	2694.6
5°	3269.4	3047.3	2879.4	2734.3	2602.6	2416.6	2313.7	2228.2	2182.4	2177.9	2166.9
7.5°	2894.0	2587.5	2360.8	2155.4	1968.8	1818.6	1652.8	1575.4	1543.7	1551.4	1558.7
10°	2503.5	2160.9	1900.5	1690.5	1526.2	1399.5	1266.3	1176.4	1114.1	1101.5	1099.0
12.5°	2218.2	1842.2	1589.6	1441.2	1314.1	1194.9	1053.8	947.7	866.9	839.1	820.6
15°	2097.5	1686.5	1421.7	1261.8	1121.7	970.3	839.1	728.2	653.7	629.6	616.1
17.5°	2123.1	1643.3	1306.0	1101.5	922.1	764.4	599.0	503.9	459.4	447.7	447.7
20°	2257.8	1635.3	1210.6	953.8	730.1	547.2	411.6	357.3	342.8	341.3	345.2
22.5°	2446.8	1663.3	1139.2	825.6	567.4	399.4	320.6	300.6	293.9	295.5	300.0
25°	2728.2	1758.3	1087.5	711.5	445.2	327.2	285.9	273.9	270.8	274.9	280.5
27.5°	3061.9	1853.4	1055.2	625.6	375.9	299.0	271.8	259.3	261.2	266.3	271.4
30°	3354.8	1931.1	1004.6	564.3	354.3	300.6	271.8	254.8	252.8	253.9	255.3
32.5°	3617.7	1983.9	945.2	506.0	305.6	266.8	253.9	251.3	240.1	236.2	236.8
35°	3844.2	1983.9	909.5	471.9	273.9	236.8	215.6	202.9	197.4	197.9	203.6
37.5°	4062.9	1944.2	891.9	452.7	256.7	225.1	206.5	195.6	187.9	186.5	187.4
40°	4255.9	1886.5	871.9	444.8	243.7	218.1	200.5	191.5	183.4	180.9	181.4
42.5°	4410.7	1839.6	849.7	434.2	235.6	213.1	196.5	188.5	179.4	176.8	176.3
45°	4577.9	1824.2	820.6	413.1	239.7	213.5	195.6	186.9	177.9	174.9	173.9
47.5°	4798.6	1872.8	790.5	388.0	248.2	216.1	197.0	186.9	177.3	174.9	173.9
50°	5076.5	1987.5	752.3	351.2	239.7	223.0	196.5	185.4	177.3	174.9	172.8
52.5°	5433.3	2142.3	702.0	309.0	234.6	240.1	195.6	182.4	174.9	171.3	167.9
55°	5866.9	2268.8	642.2	274.4	223.0	235.6	193.9	178.9	170.9	165.8	162.9
57.5°	6184.6	2314.7	565.4	251.7	207.0	228.1	192.0	174.5	165.8	161.9	157.8
60°	6121.7	2226.2	500.5	237.7	197.4	206.0	190.4	170.4	161.3	158.3	154.8
62.5°	5618.7	1995.0	458.9	231.1	191.5	187.9	192.0	166.4	157.4	154.2	153.3
65°	4864.4	1653.8	442.2	229.6	186.5	177.3	178.5	161.9	152.7	150.2	149.3
67.5°	4012.5	1334.7	427.7	234.6	179.9	169.9	164.7	155.8	148.2	145.7	143.6
70°	3164.4	1110.0	421.1	231.7	171.8	162.4	156.8	149.3	142.7	140.1	138.7
72.5°	2548.3	937.7	417.6	228.7	161.3	152.3	147.2	140.8	133.7	132.7	131.2
75°	2156.3	737.1	382.4	219.0	149.3	140.1	136.7	130.7	123.6	123.6	122.6
77.5°	1663.3	533.1	318.1	193.9	136.7	126.7	123.6	119.0	111.1	112.6	112.1
80°	1228.6	347.7	248.7	160.7	121.1	111.6	110.0	105.6	96.9	99.1	99.1
82.5°	841.7	228.1	178.9	131.6	103.6	94.5	94.5	89.9	80.4	81.3	84.4
85°	422.7	156.8	133.7	102.0	80.4	75.8	75.8	72.4	62.8	63.3	67.4
87.5°	128.6	94.5	88.5	72.9	57.9	56.9	54.3	51.7	45.8	45.3	47.7
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°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	2663.8	2635.2	2600.6	2524.1	2498.5	2497.0	2520.1	2496.0	2542.3	2522.7	2544.3
5°	2148.2	2120.1	2081.5	1983.9	1924.7	1884.5	1865.4	1809.0	1849.8	1820.1	1844.8
7.5°	1579.8	1586.4	1560.8	1503.6	1374.3	1309.5	1271.5	1237.2	1266.9	1263.8	1311.0
10°	1110.6	1128.1	1110.0	1052.3	947.7	912.0	919.1	932.7	971.3	991.5	1064.3
12.5°	799.5	798.6	786.9	735.3	666.4	670.3	699.1	722.6	758.3	779.4	853.7
15°	597.1	587.9	582.9	540.7	501.6	510.1	524.2	526.6	549.3	561.8	622.2
17.5°	451.3	455.8	461.3	431.1	401.5	396.1	385.0	371.4	377.8	380.4	410.5
20°	358.3	376.4	390.0	368.8	338.8	322.6	308.6	299.6	299.6	299.0	307.5
22.5°	313.1	326.2	340.6	326.2	299.0	284.9	276.9	269.9	268.9	268.9	276.9
25°	288.4	298.0	312.2	302.0	281.9	271.4	263.8	254.8	251.3	250.3	255.7
27.5°	276.4	280.5	287.5	278.4	261.2	256.2	254.3	246.2	241.7	239.2	244.7
30°	255.7	254.8	255.3	246.2	232.8	232.1	235.6	237.2	235.6	235.1	243.7
32.5°	236.8	234.6	234.2	226.2	213.5	210.6	213.5	216.6	220.2	225.1	235.1
35°	212.5	217.6	220.7	213.5	198.4	189.5	185.9	180.4	177.3	177.3	189.0
37.5°	193.4	205.1	209.6	202.9	186.5	173.9	167.9	166.8	167.4	169.3	180.4
40°	186.9	195.6	199.6	193.0	176.3	164.7	161.3	160.3	161.3	164.3	175.3
42.5°	183.0	189.0	188.5	180.4	166.8	158.8	156.8	155.8	156.8	159.8	171.8
45°	179.4	183.4	179.4	169.9	157.4	153.3	153.8	153.3	154.2	157.4	168.8
47.5°	176.3	177.9	172.8	163.3	150.2	149.3	151.3	152.7	153.8	156.2	168.3
50°	171.8	171.8	167.4	157.4	144.2	144.7	147.2	150.7	151.3	154.2	163.9
52.5°	166.4	165.8	162.9	153.3	139.1	140.8	140.8	144.7	145.7	149.3	159.3
55°	161.9	160.7	159.3	150.2	134.7	137.3	135.6	137.3	139.6	143.2	154.2
57.5°	157.8	155.8	155.8	147.7	131.2	132.2	128.6	130.7	133.7	136.7	148.2
60°	153.8	151.8	152.7	144.2	125.7	124.7	123.1	127.1	128.2	131.6	143.2
62.5°	149.3	147.7	148.2	140.1	121.6	119.0	119.0	122.6	123.1	128.2	139.1
65°	145.7	143.6	143.2	136.3	117.0	114.1	115.6	117.0	118.0	123.1	133.7
67.5°	142.2	138.2	138.2	132.7	112.1	109.1	112.1	111.6	113.0	117.6	126.1
70°	137.7	132.2	132.7	130.2	107.1	103.6	106.0	105.6	106.4	109.6	118.0
72.5°	130.7	126.1	127.1	126.1	102.0	96.9	97.9	97.9	97.9	100.5	109.6
75°	121.6	118.0	121.1	123.6	95.9	88.9	89.9	89.9	88.5	89.9	101.0
77.5°	110.5	108.5	118.5	115.1	88.9	80.4	80.4	79.4	76.4	78.4	90.5
80°	98.5	96.9	109.6	96.5	80.8	69.9	68.8	66.4	63.3	64.8	76.8
82.5°	86.0	84.4	91.9	73.9	69.9	57.9	55.2	50.8	47.7	49.2	60.2
85°	70.3	70.3	70.8	55.8	53.3	44.2	41.2	35.2	31.7	32.7	43.2
87.5°	50.2	51.7	47.7	38.2	31.7	24.7	22.5	19.1	16.1	18.5	22.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	2654.9	2710.0	2772.9	2853.3	2922.1	3035.3	3143.8	3209.1
5°	1985.0	2076.9	2191.4	2338.7	2475.9	2682.0	2886.4	3017.6
7.5°	1420.6	1519.2	1642.7	1826.7	2020.6	2283.4	2553.8	2710.5
10°	1175.4	1276.4	1380.4	1504.5	1663.3	1949.3	2268.8	2445.7
12.5°	972.3	1080.4	1192.5	1323.2	1470.3	1725.6	2093.9	2297.5
15°	744.2	864.9	996.9	1162.3	1346.7	1641.7	2050.8	2272.0
17.5°	510.1	644.8	807.0	1011.1	1236.6	1614.7	2128.2	2382.9
20°	351.2	449.2	622.6	861.8	1133.2	1611.1	2276.9	2596.0
22.5°	293.9	337.8	464.3	724.7	1055.2	1654.3	2507.6	2895.0
25°	271.8	298.0	370.9	605.5	998.6	1753.9	2825.2	3282.0
27.5°	258.8	282.3	336.7	527.7	953.8	1869.5	3134.2	3656.8
30°	263.8	287.9	327.2	488.0	892.9	1965.9	3408.6	3949.3
32.5°	237.7	248.2	280.5	452.7	849.3	2046.8	3648.8	4191.5
35°	202.5	221.2	250.3	436.1	850.2	2101.0	3910.6	4501.0
37.5°	193.0	211.6	232.8	430.2	861.8	2158.8	4211.2	4864.0
40°	186.9	204.1	222.2	426.6	872.9	2211.5	4505.5	5222.7
42.5°	183.0	198.4	221.2	414.6	878.5	2258.9	4747.8	5527.7
45°	182.4	198.4	225.1	402.5	886.9	2309.6	4950.9	5753.4
47.5°	183.0	205.1	217.6	388.0	886.9	2394.5	5189.0	5954.9
50°	180.9	216.1	209.6	367.3	866.3	2555.3	5515.7	6224.7
52.5°	179.9	214.5	193.9	335.6	830.7	2810.5	5934.3	6596.7
55°	177.3	207.0	183.0	288.4	788.9	3089.0	6382.5	7036.3
57.5°	174.9	183.4	176.8	247.3	724.7	3285.0	6691.0	7379.5
60°	196.0	160.3	171.8	227.1	638.8	3338.7	6679.0	7516.2
62.5°	181.4	150.2	165.3	222.6	578.4	3187.9	6370.5	7442.4
65°	142.2	143.6	158.8	235.6	562.2	2788.5	5823.7	7101.1
67.5°	130.2	137.3	152.3	252.2	563.9	2232.6	5006.7	6357.9
70°	122.6	130.2	144.7	260.8	567.9	1664.4	3958.3	5178.5
72.5°	114.1	120.6	136.3	262.3	541.7	1209.1	3050.9	3807.6
75°	104.1	110.0	124.1	228.7	448.8	838.7	2333.6	2605.1
77.5°	92.4	96.9	109.1	176.3	333.2	536.6	1751.8	1903.1
80°	79.0	81.3	91.4	129.1	228.1	335.6	1385.9	1527.2
82.5°	63.3	64.3	70.8	96.9	148.2	215.6	928.2	1059.3
85°	44.7	44.7	48.8	70.3	101.0	136.7	503.9	558.7
87.5°	21.1	21.6	21.6	38.6	52.8	69.3	116.2	71.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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