

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: P191330

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191330
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA 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: 10948.6 lumens
Efficiency: N/A
Efficacy: 96.9 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 - G3

Input Watts (W): 113
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

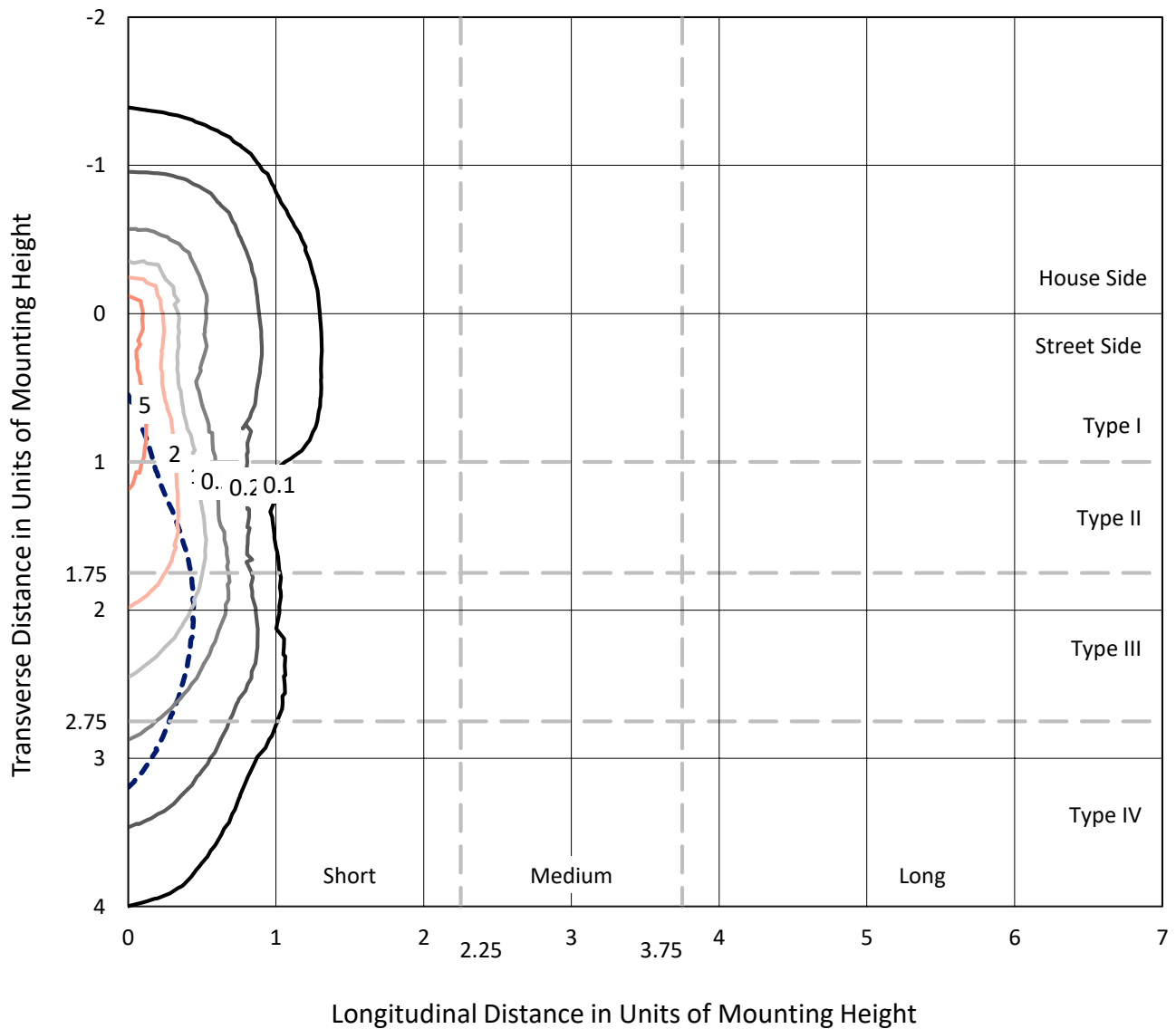


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

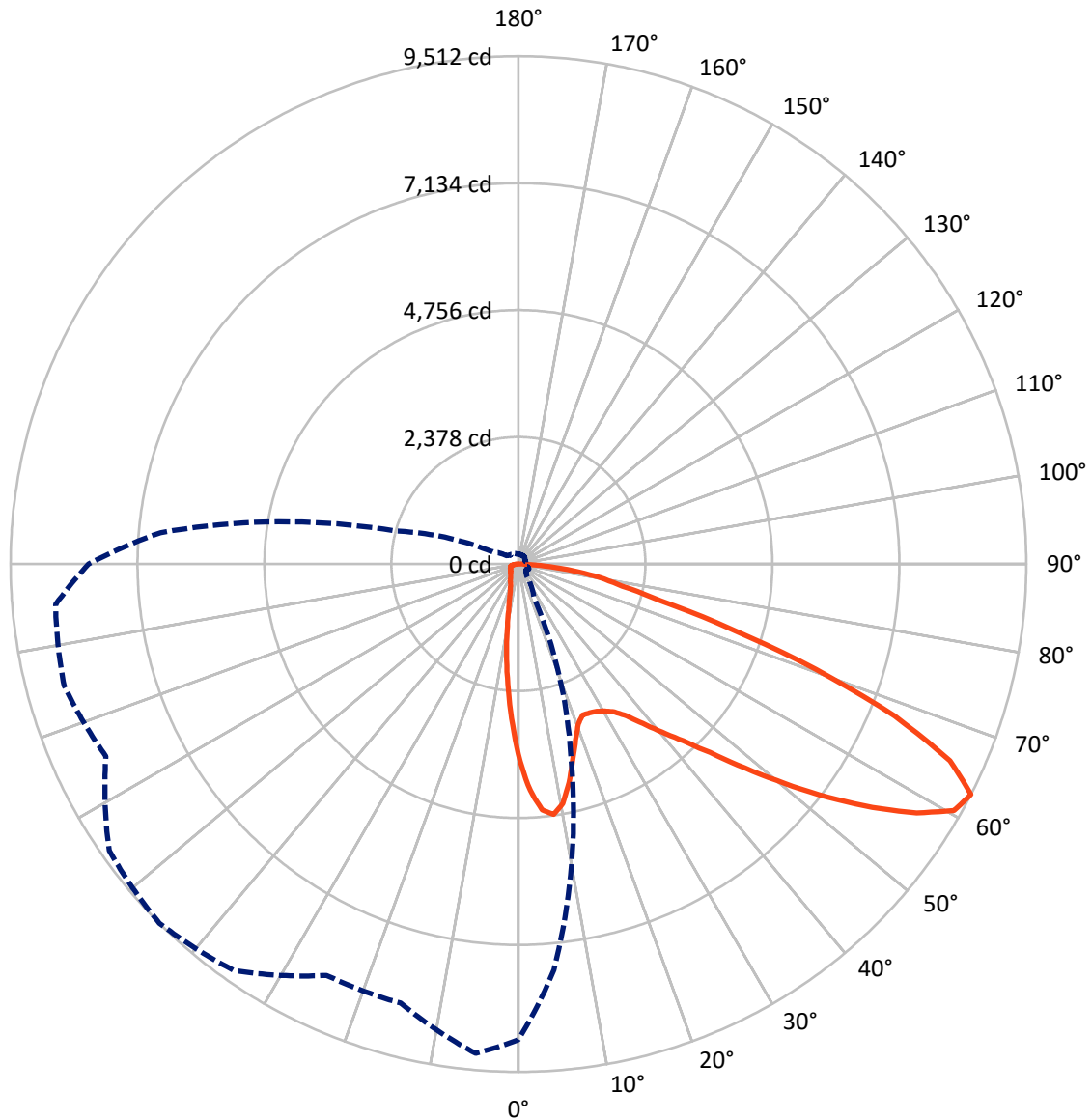


Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - Non-Cutoff

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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	1811.8	0.0	1811.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9136.8	0.0	9136.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	10948.6	0.0	10948.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.3	2.5
10°-20°	493.8	4.5
20°-30°	719.9	6.6
30°-40°	1108.8	10.1
40°-50°	1631.8	14.9
50°-60°	2393.6	21.9
60°-70°	2675.7	24.4
70°-80°	1310.0	12.0
80°-90°	345.9	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°	10948.6	100.0
0°-180°	10948.6	100.0



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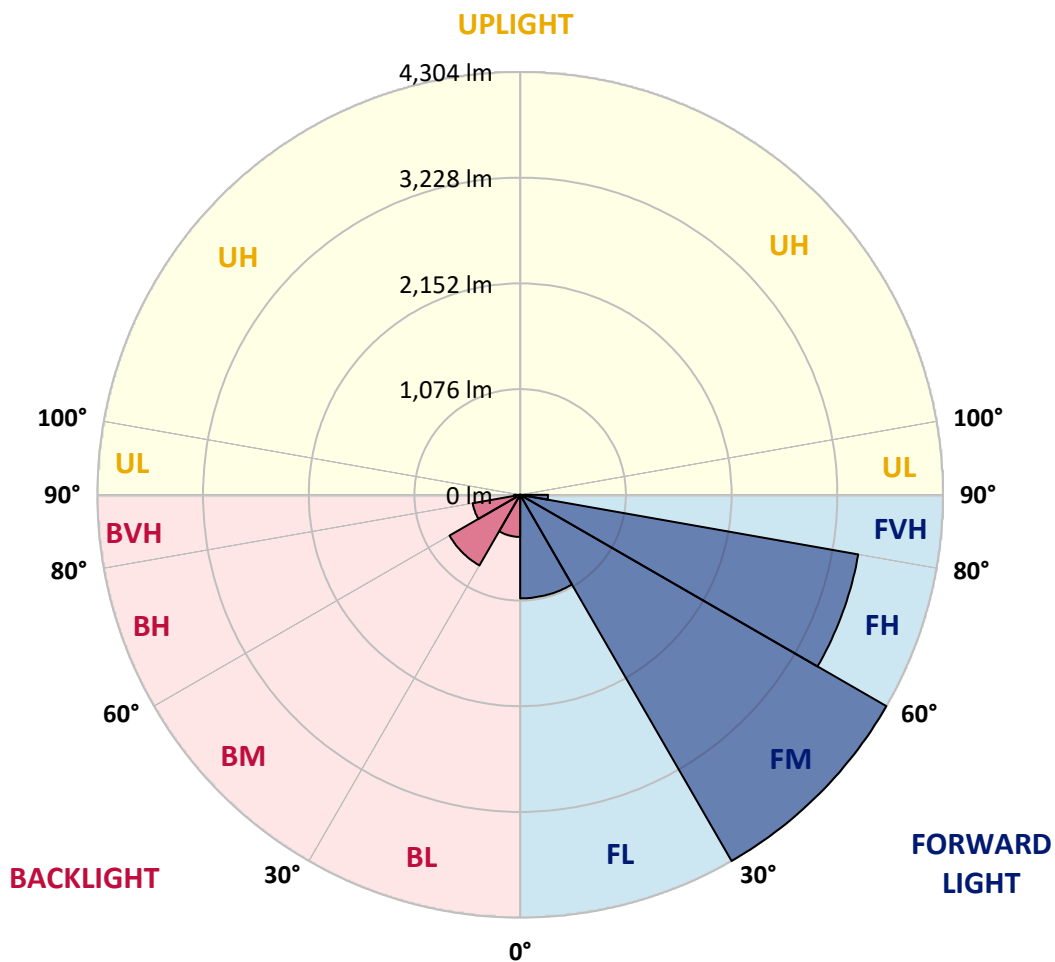
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.3	9.6			
FM (30°-60°)	4304.0	39.3			
FH (60°-80°)	3494.4	31.9			G2/5000
FVH (80°-90°)	284.0	2.6			G3/500
BL (0°-30°)	428.7	3.9	B1/500		
BM (30°-60°)	830.2	7.6	B1/1000		
BH (60°-80°)	491.2	4.5	B1/500		G1/500
BVH (80°-90°)	61.8	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0
2.5°	3843.5	3765.3	3635.3	3499.8	3417.4	3321.1	3245.8	3179.6	3047.3	3021.4	3044.8
5°	3614.2	3457.1	3212.2	2965.3	2801.0	2624.7	2487.5	2377.3	2209.5	2179.9	2215.4
7.5°	3246.4	3058.6	2734.9	2420.1	2187.8	1967.4	1819.4	1701.5	1570.2	1513.7	1517.3
10°	2929.2	2717.4	2334.6	1992.2	1801.9	1653.3	1528.7	1407.8	1274.7	1187.4	1163.4
12.5°	2751.7	2508.0	2066.8	1761.0	1584.7	1428.2	1294.0	1164.6	1022.5	933.4	908.2
15°	2721.0	2456.2	1966.3	1613.0	1392.1	1194.1	1035.8	891.4	745.1	672.9	657.9
17.5°	2854.0	2548.9	1933.8	1481.1	1211.0	966.6	772.2	610.9	491.7	455.6	452.6
20°	3109.3	2727.1	1929.6	1357.1	1032.2	745.7	538.1	420.7	368.4	358.1	358.7
22.5°	3467.3	3003.3	1981.4	1264.0	867.9	556.1	404.5	352.1	331.6	322.0	322.0
25°	3930.8	3383.7	2100.5	1195.9	725.3	444.2	356.9	325.6	306.4	299.7	301.0
27.5°	4379.8	3753.8	2238.9	1142.3	632.0	403.2	338.3	310.0	293.1	286.5	289.5
30°	4730.0	4082.4	2354.5	1069.5	584.4	391.8	344.8	316.0	292.0	281.7	282.2
32.5°	5020.1	4370.1	2451.4	1017.1	542.3	335.8	297.3	284.7	281.7	269.6	263.6
35°	5390.8	4683.7	2516.4	1018.3	522.4	299.7	264.8	242.5	226.3	212.5	212.5
37.5°	5825.4	5043.6	2585.6	1032.2	515.2	278.7	253.4	231.1	216.0	202.9	200.4
40°	6255.1	5396.3	2648.8	1045.5	511.0	266.1	244.4	223.9	210.0	196.8	193.2
42.5°	6620.4	5686.4	2705.4	1052.1	496.5	264.8	237.7	219.1	205.8	191.4	187.8
45°	6890.7	5929.5	2766.2	1062.3	482.1	269.6	237.7	218.5	202.2	188.4	184.7
47.5°	7132.0	6214.8	2867.8	1062.3	464.6	260.6	245.6	219.1	201.6	187.2	184.1
50°	7455.3	6606.0	3060.5	1037.6	440.0	250.9	258.8	216.7	196.2	184.7	181.2
52.5°	7900.7	7107.4	3366.2	994.9	402.0	232.3	257.0	215.4	190.8	178.7	174.5
55°	8427.3	7644.2	3699.6	944.9	345.5	219.1	248.0	212.5	184.7	171.5	167.4
57.5°	8838.3	8013.8	3934.4	867.9	296.1	211.9	219.7	209.4	177.6	163.7	160.1
60°	9002.1	7999.4	3998.8	765.0	272.0	205.8	192.0	234.8	171.5	157.6	153.4
62.5°	8913.6	7629.8	3818.2	692.7	266.6	198.0	179.9	217.3	166.7	153.4	147.4
65°	8504.9	6975.0	3339.7	673.5	282.2	190.2	172.2	170.3	160.1	147.4	141.5
67.5°	7614.7	5996.3	2674.1	675.2	302.2	182.4	164.3	155.9	151.1	140.9	135.4
70°	6202.2	4740.9	1993.3	680.1	312.4	173.3	155.9	146.9	141.5	131.2	127.6
72.5°	4560.3	3653.9	1448.1	648.9	314.1	163.1	144.4	136.7	131.2	120.4	117.3
75°	3120.0	2795.0	1004.5	537.5	273.8	148.6	131.9	124.6	121.0	107.7	106.0
77.5°	2279.2	2098.1	642.8	399.1	211.2	130.6	116.2	110.8	108.3	93.9	91.5
80°	1829.0	1659.9	402.0	273.2	154.7	109.6	97.5	94.5	92.1	77.6	75.8
82.5°	1268.8	1111.6	258.2	177.6	116.2	84.9	77.0	75.8	72.2	59.0	57.2
85°	669.3	603.6	163.7	121.0	84.3	58.4	53.6	53.6	51.8	39.1	38.0
87.5°	85.4	139.0	83.1	63.2	46.3	25.9	25.9	25.3	27.1	22.3	19.2
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°	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0
2.5°	2989.5	3018.3	2990.7	2992.4	3023.1	3114.7	3156.2	3190.5	3227.2	3251.2	3262.1
5°	2166.7	2234.1	2256.9	2305.1	2376.1	2492.9	2539.3	2572.9	2595.2	2608.4	2613.8
7.5°	1481.7	1522.7	1568.5	1646.1	1800.8	1869.3	1900.0	1892.3	1867.0	1858.0	1848.9
10°	1117.1	1100.8	1092.4	1135.1	1260.3	1329.5	1351.2	1330.1	1316.2	1319.3	1334.3
12.5°	865.5	837.2	802.9	798.1	880.6	942.5	956.4	957.6	982.9	1005.2	1038.2
15°	630.8	627.8	610.9	600.7	647.6	698.2	704.2	715.0	737.9	754.1	783.1
17.5°	444.8	461.0	474.2	480.9	516.4	552.5	545.8	540.4	536.2	536.2	550.1
20°	358.7	369.6	386.4	405.7	441.8	467.1	450.8	429.1	413.5	408.7	410.5
22.5°	323.2	331.6	341.3	358.1	390.6	408.1	390.6	374.9	359.3	353.9	352.1
25°	305.1	316.0	325.0	337.7	361.7	373.8	356.9	345.5	335.8	329.2	324.4
27.5°	294.9	304.5	307.0	312.9	333.5	344.2	335.8	331.0	325.0	319.0	312.9
30°	284.1	282.2	278.0	278.7	294.9	305.8	305.1	306.4	305.8	303.9	302.7
32.5°	259.4	255.8	252.2	255.8	270.9	280.5	281.1	283.5	283.5	282.8	287.7
35°	216.0	222.7	226.9	237.7	255.8	264.2	260.6	254.6	243.8	237.1	236.5
37.5°	199.8	201.0	208.3	223.3	243.2	250.9	245.6	231.7	224.5	223.3	225.0
40°	192.0	193.2	197.4	211.2	231.1	239.0	234.2	223.9	217.3	216.7	219.7
42.5°	186.6	187.8	190.2	199.8	216.0	225.7	226.3	219.1	211.2	211.9	214.8
45°	183.5	184.1	183.5	188.4	203.5	214.8	219.7	214.8	208.3	209.4	213.1
47.5°	183.0	181.2	178.7	179.9	195.6	207.0	213.1	211.2	208.3	209.4	212.5
50°	180.6	176.4	173.3	172.8	188.4	200.4	205.8	205.8	207.0	209.4	212.5
52.5°	173.3	168.5	168.5	166.7	183.5	195.0	198.7	199.2	201.0	205.2	209.4
55°	164.3	162.5	164.3	161.3	179.9	190.8	192.6	193.8	195.0	198.7	204.6
57.5°	156.5	154.1	158.3	157.1	177.0	186.6	186.6	188.9	188.9	193.8	198.7
60°	152.3	147.4	149.2	150.5	172.8	183.0	181.8	184.1	185.4	189.6	193.2
62.5°	146.9	142.6	142.6	145.7	168.0	177.6	177.0	178.7	183.5	184.7	188.4
65°	140.2	138.4	136.7	140.2	163.1	171.5	172.2	174.5	178.7	179.9	183.0
67.5°	133.6	134.2	130.6	134.2	158.9	165.5	165.5	170.3	172.2	174.5	177.6
70°	126.4	126.9	124.0	128.2	155.9	158.9	158.3	164.9	166.1	168.0	170.9
72.5°	117.3	117.3	116.2	122.1	151.1	152.3	151.1	156.5	157.1	158.9	160.1
75°	107.7	107.7	106.5	115.0	148.0	145.1	141.5	145.7	146.9	148.0	148.0
77.5°	95.1	96.3	96.3	106.5	137.8	142.1	130.0	132.4	134.2	134.8	133.0
80°	79.5	82.4	83.7	96.9	115.6	131.2	116.2	117.9	118.6	118.6	116.2
82.5°	60.8	66.2	69.3	83.7	88.5	110.2	101.1	102.9	101.1	97.5	96.3
85°	42.1	49.3	53.0	63.8	66.8	84.9	84.3	84.3	80.6	75.8	75.2
87.5°	22.9	27.1	29.5	38.0	45.7	57.2	62.0	60.1	57.2	54.2	54.7
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°	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0
2.5°	3318.7	3400.5	3531.1	3631.1	3731.5	3828.4	3933.1	4013.2	4081.3	4107.7	4188.4
5°	2668.7	2771.0	2894.3	3117.0	3274.8	3448.7	3649.7	3915.8	4018.0	4159.4	4391.2
7.5°	1886.8	1979.5	2178.2	2358.1	2581.4	2827.5	3099.0	3466.2	3600.4	3827.3	4204.6
10°	1408.9	1516.7	1676.2	1827.8	2024.6	2276.3	2588.0	2998.5	3161.5	3407.8	3842.3
12.5°	1135.1	1262.1	1431.2	1573.9	1726.1	1903.7	2206.4	2656.6	2875.1	3090.5	3529.9
15°	872.1	1005.2	1162.2	1343.3	1511.3	1702.7	2019.8	2512.2	2763.7	2988.2	3363.2
17.5°	603.6	717.4	915.4	1104.4	1319.3	1564.2	1968.1	2542.9	2843.2	3102.0	3392.1
20°	427.9	493.0	655.4	874.5	1142.3	1449.9	1958.4	2704.2	3094.7	3390.3	3577.5
22.5°	359.9	384.0	478.4	679.5	988.9	1364.4	1992.2	2930.4	3434.3	3811.6	3873.0
25°	328.1	342.5	391.8	533.3	852.2	1302.4	2105.9	3267.5	3854.3	4232.9	4222.0
27.5°	310.6	325.6	358.1	450.2	749.3	1264.0	2219.7	3667.2	4334.7	4690.3	4555.5
30°	305.1	325.6	359.9	424.3	675.9	1203.1	2313.0	4018.0	4704.1	4999.1	4707.2
32.5°	301.0	303.9	319.6	365.9	606.1	1132.1	2376.1	4332.8	5065.9	5292.7	4925.6
35°	243.2	258.2	283.5	328.1	565.2	1089.3	2376.1	4604.2	5422.2	5589.5	5133.9
37.5°	234.2	247.3	269.6	307.6	542.3	1068.3	2328.6	4866.1	5786.3	5926.0	5305.4
40°	229.3	240.2	261.2	292.0	532.7	1044.2	2259.4	5097.2	6142.0	6263.0	5465.5
42.5°	225.7	235.3	255.2	282.2	520.0	1017.7	2203.4	5282.5	6450.7	6550.7	5618.4
45°	223.9	234.2	255.8	287.0	494.7	982.9	2184.7	5482.9	6704.7	6790.8	5783.9
47.5°	223.9	235.9	258.8	297.3	464.6	946.7	2243.1	5747.1	6944.9	6987.1	5978.9
50°	222.1	235.3	267.2	287.0	420.7	901.0	2380.4	6080.0	7204.8	7209.7	6225.7
52.5°	218.5	234.2	287.7	281.1	370.1	840.8	2565.8	6507.3	7589.5	7618.3	6612.0
55°	214.3	232.3	282.2	267.2	328.6	769.2	2717.4	7026.8	8129.9	8210.0	7180.2
57.5°	208.9	230.0	273.2	248.0	301.6	677.1	2772.2	7407.1	8507.3	8708.4	7820.6
60°	204.1	228.1	246.7	236.5	284.7	599.4	2666.2	7331.9	8481.4	8914.8	8388.1
62.5°	199.2	230.0	225.0	229.3	276.8	549.5	2389.4	6729.4	8052.3	8701.7	8808.8
65°	193.8	213.7	212.5	223.3	275.1	529.7	1980.7	5826.0	7223.0	8028.2	8908.2
67.5°	186.6	197.4	203.5	215.4	281.1	512.2	1598.6	4805.8	6070.4	7018.9	8390.5
70°	178.7	187.8	194.4	205.8	277.4	504.3	1329.5	3789.9	4816.7	5752.6	7369.2
72.5°	168.5	176.4	182.4	193.2	273.8	500.1	1123.1	3052.1	3596.1	4273.2	5991.5
75°	156.5	163.7	168.0	178.7	262.4	458.0	882.9	2582.5	2690.9	2972.6	4772.2
77.5°	142.6	148.0	151.7	163.7	232.3	380.9	638.5	1992.2	2089.7	2158.3	3658.7
80°	126.4	131.9	133.6	145.1	192.6	297.9	416.4	1471.5	1563.1	1578.7	2389.4
82.5°	107.7	113.1	113.1	124.0	157.6	214.3	273.2	1008.1	1026.2	1079.1	1688.8
85°	86.6	90.8	90.8	96.3	122.1	160.1	187.8	506.2	500.7	571.7	1463.1
87.5°	62.0	65.0	68.0	69.3	87.3	106.0	113.1	154.1	101.7	116.7	939.5
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°	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0	3699.0
2.5°	4249.1	4283.4	4248.5	4223.3	4114.3	4024.7	3904.9	3843.5
5°	4567.6	4654.8	4625.3	4519.4	4291.9	4036.1	3745.4	3614.2
7.5°	4529.0	4731.9	4736.7	4538.6	4203.4	3826.7	3433.0	3246.4
10°	4229.3	4488.7	4562.7	4370.8	4015.0	3593.7	3142.3	2929.2
12.5°	3894.7	4148.7	4205.2	4139.0	3841.7	3418.6	2960.5	2751.7
15°	3620.8	3734.6	3802.0	3859.7	3693.1	3348.7	2950.3	2721.0
17.5°	3454.1	3441.4	3460.7	3561.2	3589.5	3428.8	3106.8	2854.0
20°	3393.9	3200.7	3195.9	3334.3	3540.7	3619.6	3412.6	3109.3
22.5°	3427.0	3114.1	3074.3	3238.7	3566.6	3894.7	3813.4	3467.3
25°	3541.4	3121.2	3089.3	3248.3	3660.5	4187.8	4246.2	3930.8
27.5°	3721.3	3167.0	3124.9	3288.0	3785.1	4433.9	4672.2	4379.8
30°	3892.2	3246.4	3194.1	3366.2	3898.9	4531.4	4933.5	4730.0
32.5°	4099.9	3395.1	3303.0	3510.1	4039.7	4686.6	5166.4	5020.1
35°	4303.3	3606.9	3492.6	3732.1	4196.8	4879.9	5432.4	5390.8
37.5°	4526.6	3883.8	3789.3	4019.3	4411.7	5062.3	5771.9	5825.4
40°	4764.9	4251.0	4139.0	4438.2	4745.1	5291.0	6126.4	6255.1
42.5°	5005.1	4658.4	4524.8	4828.1	5111.6	5516.7	6429.7	6620.4
45°	5280.2	5100.7	5037.6	5365.6	5463.7	5731.5	6653.6	6890.7
47.5°	5600.3	5602.7	5704.5	5835.6	5818.7	5974.6	6878.6	7132.0
50°	5974.0	6229.3	6453.8	6541.1	6184.8	6235.9	7191.0	7455.3
52.5°	6423.1	6978.6	7256.6	7199.4	6578.9	6554.9	7685.7	7900.7
55°	6984.6	7771.9	8048.1	8007.1	7032.2	6989.4	8302.1	8427.3
57.5°	7634.6	8540.4	8794.4	8610.3	7576.3	7466.1	8811.9	8838.3
60°	8205.8	9149.5	9372.2	9168.2	8125.1	7973.5	9130.2	9002.1
62.5°	8523.5	9355.9	9512.4	9292.8	8501.3	8513.9	9200.0	8913.6
65°	8381.5	8834.1	8884.6	8866.6	8404.4	8827.6	8949.1	8504.9
67.5°	7603.9	7514.8	7599.7	7717.0	7573.8	8414.6	8253.9	7614.7
70°	6234.1	5744.8	5913.9	5992.8	6057.7	7241.0	7163.9	6202.2
72.5°	4698.1	4024.7	4158.3	4142.0	4443.0	5808.0	5571.4	4560.3
75°	3328.9	2728.8	2745.7	2739.1	3100.2	4544.0	4034.3	3120.0
77.5°	2329.2	1977.2	1986.2	2023.5	2084.3	3427.0	2882.3	2279.2
80°	1601.5	1500.5	1550.4	1553.5	1444.5	2302.2	2129.4	1829.0
82.5°	1192.9	1043.0	1031.0	1048.4	1132.1	1865.1	1636.4	1268.8
85°	976.8	617.6	496.5	622.4	1003.3	1847.1	1087.0	669.3
87.5°	550.1	293.1	132.4	245.6	400.3	1222.9	314.1	85.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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