

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: P191321

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191321
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-SLR-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 13199.1 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 124
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

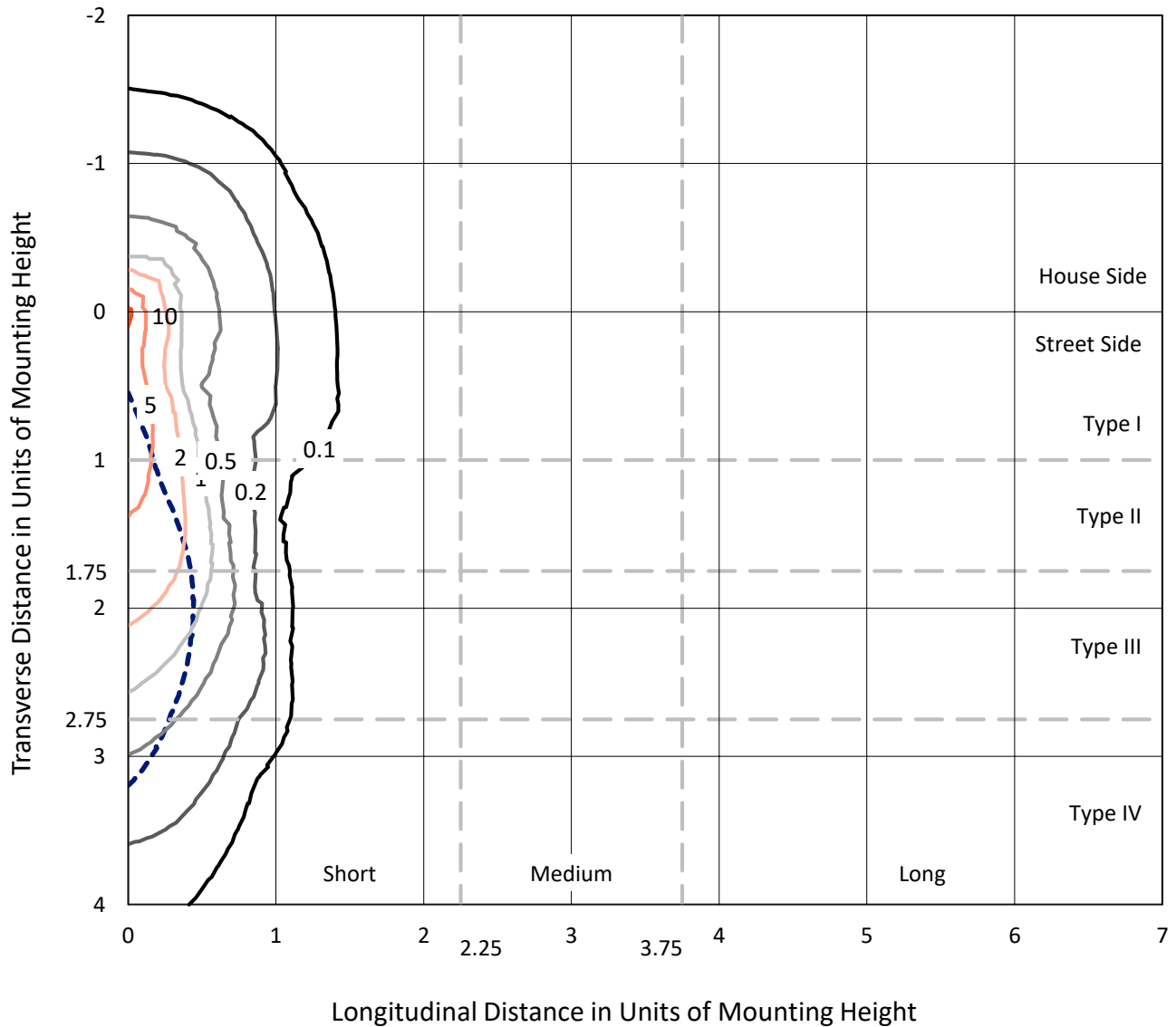


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

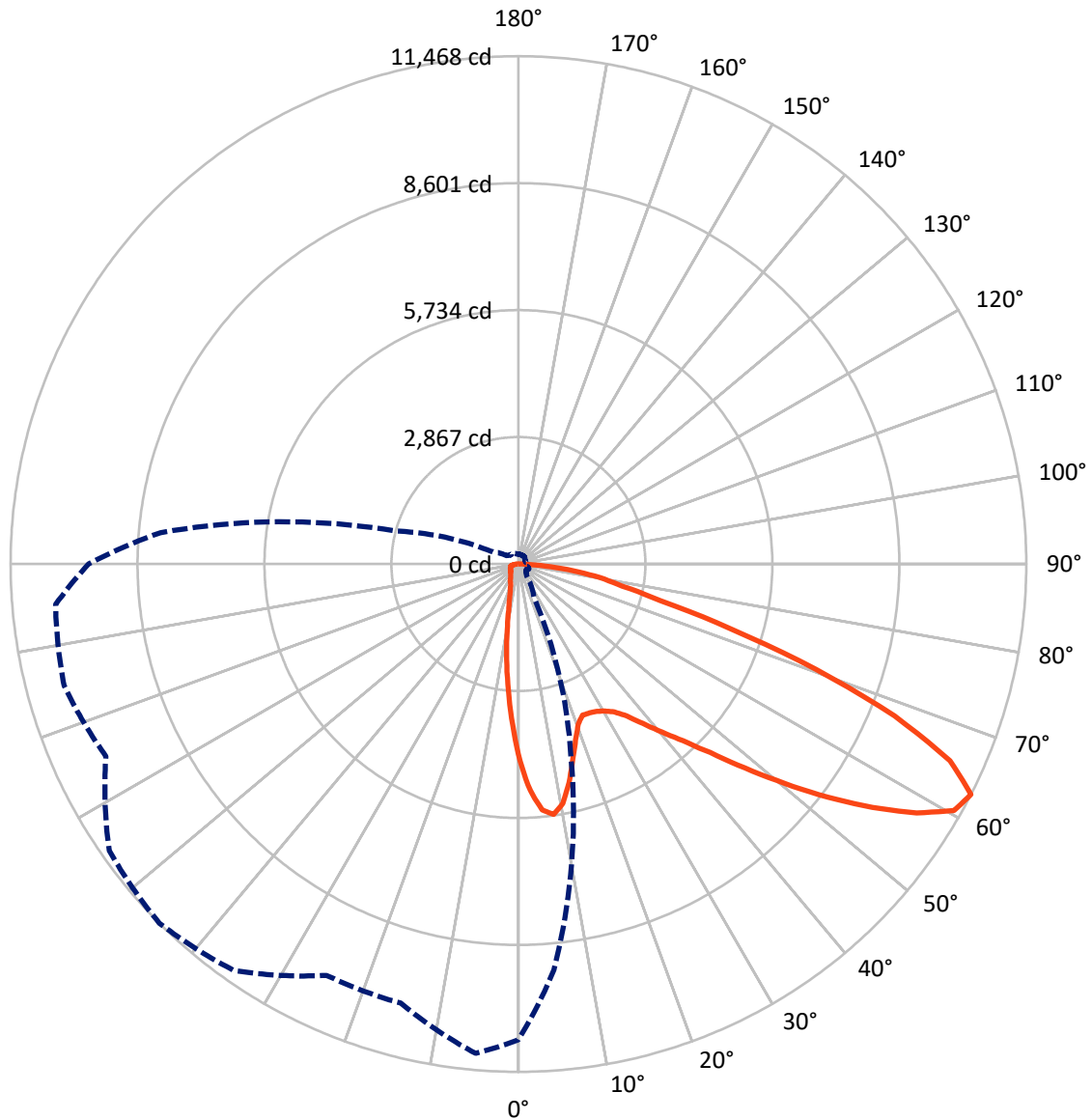


Based on 20 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - Non-Cutoff

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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	2184.3	0.0	2184.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11014.9	0.0	11014.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	13199.1	0.0	13199.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.6	2.5
10°-20°	595.3	4.5
20°-30°	867.9	6.6
30°-40°	1336.7	10.1
40°-50°	1967.3	14.9
50°-60°	2885.6	21.9
60°-70°	3225.6	24.4
70°-80°	1579.2	12.0
80°-90°	417.0	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°	13199.1	100.0
0°-180°	13199.1	100.0

Coefficient of Utilization



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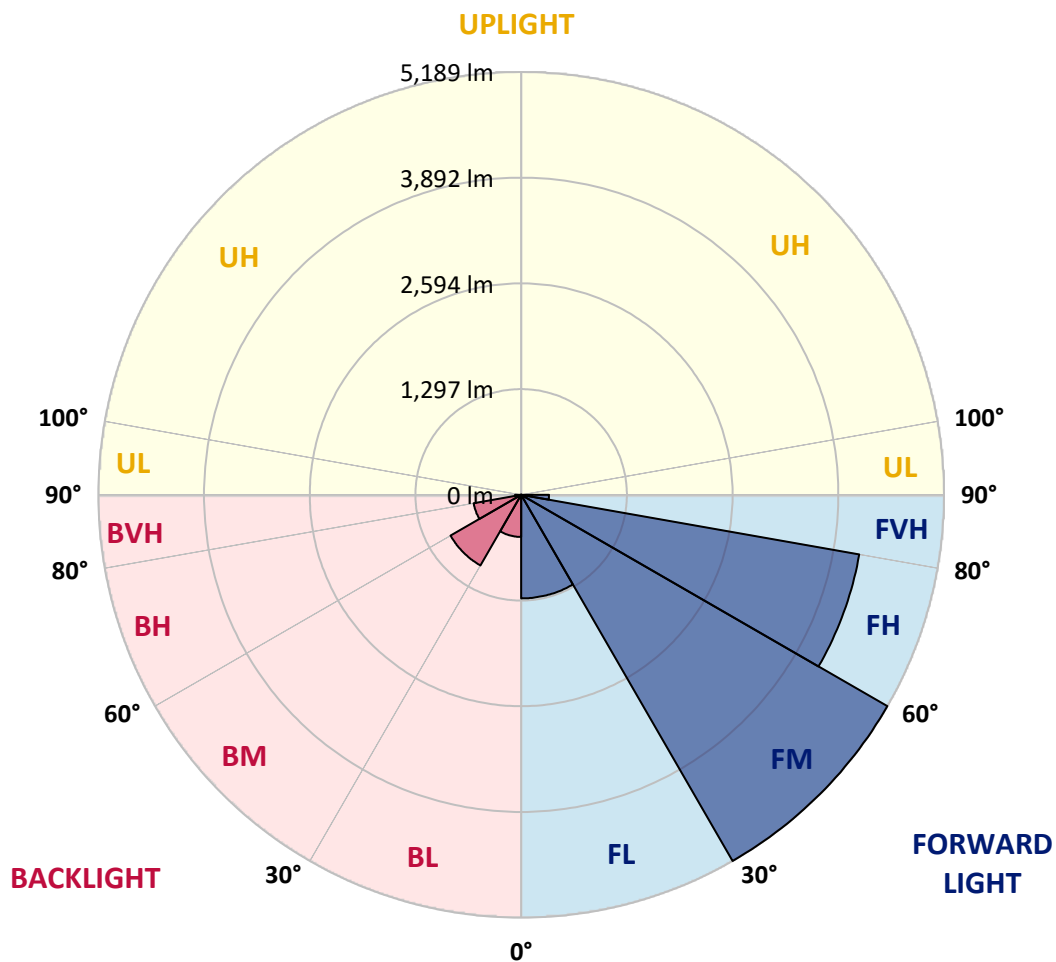
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1271.0	9.6			
FM	(30°-60°)	5188.7	39.3			
FH	(60°-80°)	4212.7	31.9			G2/5000
FVH	(80°-90°)	342.4	2.6			G3/500
BL	(0°-30°)	516.8	3.9	B2/1000		
BM	(30°-60°)	1000.8	7.6	B2/2500		
BH	(60°-80°)	592.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	74.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3
2.5°	4633.6	4539.2	4382.4	4219.3	4119.8	4003.7	3913.0	3833.2	3673.6	3642.4	3670.7
5°	4357.1	4167.7	3872.4	3574.9	3376.9	3164.2	2998.8	2866.0	2663.6	2628.1	2670.8
7.5°	3913.7	3687.3	3297.0	2917.6	2637.5	2371.9	2193.4	2051.2	1893.1	1824.8	1829.1
10°	3531.3	3276.0	2814.5	2401.7	2172.3	1993.1	1842.9	1697.1	1536.8	1431.5	1402.6
12.5°	3317.3	3023.4	2491.6	2123.0	1910.5	1721.8	1560.0	1404.0	1232.8	1125.3	1094.9
15°	3280.3	2961.0	2370.5	1944.5	1678.3	1439.5	1248.7	1074.6	898.3	811.2	793.1
17.5°	3440.7	3072.8	2331.3	1785.7	1459.9	1165.2	930.9	736.4	592.8	549.2	545.6
20°	3748.3	3287.6	2326.2	1636.2	1244.3	899.0	648.7	507.2	444.1	431.7	432.4
22.5°	4180.0	3620.6	2388.6	1523.7	1046.3	670.4	487.5	424.4	399.8	388.2	388.2
25°	4738.7	4079.2	2532.2	1441.7	874.3	535.5	430.3	392.5	369.3	361.3	362.7
27.5°	5280.0	4525.4	2699.2	1377.1	761.9	486.1	407.7	373.7	353.3	345.3	349.0
30°	5702.3	4921.5	2838.5	1289.3	704.5	472.4	415.7	380.9	351.9	339.6	340.3
32.5°	6052.0	5268.4	2955.3	1226.2	653.8	404.9	358.4	343.2	339.6	325.1	317.8
35°	6499.0	5646.4	3033.7	1227.6	629.8	361.3	319.3	292.4	272.8	256.1	256.1
37.5°	7022.9	6080.3	3117.0	1244.3	621.1	335.9	305.5	278.7	260.4	244.5	241.6
40°	7540.9	6505.5	3193.2	1260.3	616.0	320.7	294.6	270.0	253.2	237.2	232.9
42.5°	7981.3	6855.2	3261.5	1268.3	598.6	319.3	286.6	264.1	248.2	230.8	226.4
45°	8307.1	7148.4	3334.7	1280.6	581.1	325.1	286.6	263.4	243.8	227.1	222.8
47.5°	8598.0	7492.3	3457.4	1280.6	560.2	314.1	296.0	264.1	243.1	225.7	222.0
50°	8987.6	7963.9	3689.6	1250.9	530.4	302.6	312.0	261.2	236.5	222.8	218.4
52.5°	9524.6	8568.3	4058.1	1199.4	484.7	280.1	309.9	259.7	230.0	215.5	210.4
55°	10159.5	9215.6	4460.1	1139.2	416.4	264.1	298.9	256.1	222.8	206.7	201.7
57.5°	10655.1	9661.1	4743.1	1046.3	357.0	255.4	264.8	252.5	214.0	197.3	193.0
60°	10852.4	9643.6	4820.8	922.2	328.0	248.2	231.5	282.9	206.7	190.1	185.1
62.5°	10745.8	9198.1	4603.1	835.1	321.4	238.8	217.0	262.0	201.0	185.1	177.8
65°	10253.1	8408.7	4026.2	811.9	340.3	229.2	207.6	205.3	193.0	177.8	170.5
67.5°	9180.0	7228.9	3223.7	814.1	364.3	219.8	198.0	187.9	182.1	169.8	163.3
70°	7477.1	5715.3	2403.1	819.9	376.5	209.0	187.9	177.1	170.5	158.1	153.9
72.5°	5497.6	4404.9	1745.8	782.1	378.8	196.6	174.1	164.7	158.1	145.2	141.5
75°	3761.4	3369.6	1211.0	647.9	330.1	179.2	158.9	150.2	145.9	129.9	127.7
77.5°	2747.7	2529.3	774.9	481.1	254.7	157.4	140.0	133.5	130.6	113.2	110.3
80°	2205.0	2001.1	484.7	329.4	186.5	132.1	117.5	114.0	111.0	93.6	91.5
82.5°	1529.5	1340.2	311.3	214.0	140.0	102.3	92.9	91.5	87.1	71.1	68.9
85°	806.8	727.7	197.3	145.9	101.6	70.4	64.5	64.5	62.4	47.2	45.7
87.5°	103.0	167.6	100.1	76.2	55.9	31.2	31.2	30.5	32.6	26.8	23.2
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°	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3
2.5°	3604.0	3638.7	3605.4	3607.5	3644.6	3754.8	3804.9	3846.3	3890.5	3919.5	3932.6
5°	2612.1	2693.3	2720.9	2778.9	2864.6	3005.3	3061.2	3101.8	3128.7	3144.7	3151.2
7.5°	1786.4	1835.7	1890.8	1984.4	2170.9	2253.7	2290.6	2281.2	2250.7	2239.9	2229.0
10°	1346.7	1327.1	1316.9	1368.4	1519.4	1602.8	1628.9	1603.5	1586.8	1590.5	1608.6
12.5°	1043.4	1009.2	967.9	962.1	1061.5	1136.3	1153.0	1154.4	1184.9	1211.7	1251.6
15°	760.4	756.8	736.4	724.1	780.7	841.7	848.9	861.9	889.6	909.1	944.0
17.5°	536.2	555.8	571.7	579.7	622.6	666.0	658.1	651.5	646.5	646.5	663.2
20°	432.4	445.5	465.9	489.1	532.5	563.0	543.5	517.3	498.5	492.7	494.8
22.5°	389.6	399.8	411.4	431.7	470.9	491.9	470.9	452.0	433.1	426.7	424.4
25°	367.9	380.9	391.8	407.0	436.1	450.6	430.3	416.4	404.9	396.9	391.1
27.5°	355.6	367.1	370.0	377.3	401.9	415.0	404.9	399.1	391.8	384.5	377.3
30°	342.5	340.3	335.2	335.9	355.6	368.6	367.9	369.3	368.6	366.4	365.0
32.5°	312.7	308.4	304.0	308.4	326.5	338.1	338.8	341.8	341.8	341.1	346.8
35°	260.4	268.4	273.5	286.6	308.4	318.5	314.1	306.9	293.9	285.9	285.2
37.5°	240.9	242.3	251.0	269.1	293.2	302.6	296.0	279.4	270.7	269.1	271.4
40°	231.5	232.9	237.9	254.7	278.7	288.1	282.2	270.0	262.0	261.2	264.8
42.5°	224.9	226.4	229.2	240.9	260.4	272.1	272.8	264.1	254.7	255.4	259.0
45°	221.3	222.0	221.3	227.1	245.2	259.0	264.8	259.0	251.0	252.5	256.9
47.5°	220.5	218.4	215.5	217.0	235.8	249.6	256.9	254.7	251.0	252.5	256.1
50°	217.7	212.6	209.0	208.3	227.1	241.6	248.2	248.2	249.6	252.5	256.1
52.5°	209.0	203.2	203.2	201.0	221.3	235.1	239.5	240.2	242.3	247.5	252.5
55°	198.0	195.9	198.0	194.5	217.0	230.0	232.2	233.6	235.1	239.5	246.7
57.5°	188.6	185.8	190.8	189.3	213.3	224.9	224.9	227.8	227.8	233.6	239.5
60°	183.6	177.8	179.9	181.4	208.3	220.5	219.1	222.0	223.5	228.5	232.9
62.5°	177.1	172.0	172.0	175.5	202.4	214.0	213.3	215.5	221.3	222.8	227.1
65°	169.1	166.8	164.7	169.1	196.6	206.7	207.6	210.4	215.5	217.0	220.5
67.5°	161.1	161.8	157.4	161.8	191.6	199.6	199.6	205.3	207.6	210.4	214.0
70°	152.4	153.1	149.5	154.6	187.9	191.6	190.8	198.8	200.3	202.4	206.0
72.5°	141.5	141.5	140.0	147.3	182.1	183.6	182.1	188.6	189.3	191.6	193.0
75°	129.9	129.9	128.4	138.6	178.5	174.8	170.5	175.5	177.1	178.5	178.5
77.5°	114.7	116.1	116.1	128.4	166.1	171.2	156.7	159.6	161.8	162.5	160.4
80°	95.7	99.4	100.9	116.8	139.3	158.1	140.0	142.2	142.9	142.9	140.0
82.5°	73.2	79.8	83.5	100.9	106.7	132.8	121.9	124.1	121.9	117.5	116.1
85°	50.8	59.5	63.8	76.9	80.5	102.3	101.6	101.6	97.2	91.5	90.7
87.5°	27.6	32.6	35.6	45.7	55.1	68.9	74.8	72.5	68.9	65.3	66.0
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°	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3
2.5°	4000.9	4099.5	4256.9	4377.4	4498.5	4615.3	4741.6	4838.1	4920.1	4952.0	5049.3
5°	3217.2	3340.5	3489.3	3757.7	3947.9	4157.6	4399.9	4720.6	4844.0	5014.4	5293.8
7.5°	2274.6	2386.4	2625.8	2842.8	3112.0	3408.8	3736.0	4178.5	4340.4	4613.9	5068.8
10°	1698.6	1828.4	2020.7	2203.5	2440.9	2744.2	3120.0	3614.8	3811.4	4108.2	4632.0
12.5°	1368.4	1521.5	1725.4	1897.4	2081.0	2295.0	2660.0	3202.7	3466.1	3725.8	4255.5
15°	1051.4	1211.7	1401.0	1619.4	1821.9	2052.7	2435.0	3028.5	3331.9	3602.5	4054.5
17.5°	727.7	864.9	1103.6	1331.5	1590.5	1885.8	2372.6	3065.6	3427.6	3739.6	4089.3
20°	515.9	594.2	790.1	1054.3	1377.1	1747.9	2361.0	3260.0	3730.9	4087.2	4312.9
22.5°	433.9	462.9	576.8	819.2	1192.1	1644.9	2401.7	3532.9	4140.1	4595.1	4669.1
25°	395.5	412.9	472.4	642.8	1027.5	1570.1	2538.8	3939.2	4646.5	5103.0	5089.9
27.5°	374.4	392.5	431.7	542.8	903.4	1523.7	2675.9	4420.9	5225.5	5654.4	5491.9
30°	367.9	392.5	433.9	511.6	814.8	1450.4	2788.4	4844.0	5671.1	6026.6	5674.7
32.5°	362.7	366.4	385.2	441.2	730.7	1364.8	2864.6	5223.4	6107.1	6380.7	5938.1
35°	293.2	311.3	341.8	395.5	681.3	1313.3	2864.6	5550.6	6536.7	6738.4	6189.2
37.5°	282.2	298.2	325.1	370.7	653.8	1287.9	2807.3	5866.3	6975.7	7144.0	6395.9
40°	276.4	289.5	314.9	351.9	642.1	1258.8	2723.8	6144.9	7404.5	7550.3	6588.9
42.5°	272.1	283.7	307.6	340.3	626.9	1226.9	2656.3	6368.4	7776.7	7897.2	6773.3
45°	270.0	282.2	308.4	346.1	596.4	1184.9	2633.8	6610.0	8082.8	8186.7	6972.7
47.5°	270.0	284.4	312.0	358.4	560.2	1141.3	2704.2	6928.5	8372.4	8423.2	7207.8
50°	267.7	283.7	322.1	346.1	507.2	1086.2	2869.7	7329.7	8685.9	8691.6	7505.3
52.5°	263.4	282.2	346.8	338.8	446.2	1013.6	3093.1	7844.9	9149.5	9184.4	7971.1
55°	258.3	280.1	340.3	322.1	396.2	927.3	3276.0	8471.1	9801.1	9897.6	8656.1
57.5°	251.7	277.2	329.4	298.9	363.6	816.3	3342.0	8929.6	10256.0	10498.3	9428.1
60°	246.0	275.0	297.5	285.2	343.2	722.7	3214.3	8838.9	10224.8	10747.2	10112.3
62.5°	240.2	277.2	271.4	276.4	333.8	662.5	2880.5	8112.6	9707.5	10490.4	10619.5
65°	233.6	257.6	256.1	269.1	331.5	638.5	2387.9	7023.6	8707.7	9678.4	10739.2
67.5°	224.9	237.9	245.2	259.7	338.8	617.5	1927.1	5793.7	7318.2	8461.6	10115.2
70°	215.5	226.4	234.4	248.2	334.5	608.0	1602.8	4568.9	5806.8	6935.0	8883.9
72.5°	203.2	212.6	219.8	232.9	330.1	602.9	1353.9	3679.3	4335.3	5151.6	7223.1
75°	188.6	197.3	202.4	215.5	316.4	552.2	1064.4	3113.5	3244.1	3583.6	5753.1
77.5°	172.0	178.5	182.8	197.3	280.1	459.3	769.9	2401.7	2519.2	2601.9	4410.8
80°	152.4	158.9	161.1	174.8	232.2	359.2	502.1	1774.0	1884.3	1903.2	2880.5
82.5°	129.9	136.4	136.4	149.5	190.1	258.3	329.4	1215.4	1237.1	1301.0	2036.0
85°	104.4	109.6	109.6	116.1	147.3	193.0	226.4	610.2	603.6	689.3	1763.9
87.5°	74.8	78.4	82.0	83.5	105.2	127.7	136.4	185.8	122.7	140.8	1132.6
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°	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3
2.5°	5122.5	5164.0	5121.8	5091.3	4960.0	4852.0	4707.5	4633.6
5°	5506.3	5611.6	5576.0	5448.3	5174.1	4865.7	4515.2	4357.1
7.5°	5459.9	5704.5	5710.3	5471.6	5067.4	4613.2	4138.7	3913.7
10°	5098.6	5411.3	5500.6	5269.1	4840.3	4332.4	3788.2	3531.3
12.5°	4695.1	5001.4	5069.5	4989.7	4631.3	4121.3	3569.1	3317.3
15°	4365.0	4502.2	4583.4	4653.1	4452.1	4037.1	3556.8	3280.3
17.5°	4164.0	4148.9	4172.0	4293.2	4327.3	4133.6	3745.4	3440.7
20°	4091.5	3858.6	3852.8	4019.7	4268.6	4363.6	4114.0	3748.3
22.5°	4131.4	3754.1	3706.3	3904.3	4299.8	4695.1	4597.2	4180.0
25°	4269.3	3762.8	3724.4	3916.0	4412.9	5048.6	5118.9	4738.7
27.5°	4486.3	3818.0	3767.2	3963.8	4563.2	5345.3	5632.7	5280.0
30°	4692.3	3913.7	3850.6	4058.1	4700.3	5462.9	5947.5	5702.3
32.5°	4942.6	4092.9	3981.9	4231.5	4870.1	5650.1	6228.3	6052.0
35°	5187.9	4348.4	4210.5	4499.2	5059.4	5883.0	6549.0	6499.0
37.5°	5457.0	4682.1	4568.2	4845.4	5318.4	6102.8	6958.2	7022.9
40°	5744.4	5124.8	4989.7	5350.3	5720.4	6378.5	7385.6	7540.9
42.5°	6033.9	5615.9	5454.9	5820.6	6162.3	6650.6	7751.3	7981.3
45°	6365.4	6149.3	6073.1	6468.5	6586.8	6909.6	8021.3	8307.1
47.5°	6751.5	6754.3	6877.0	7035.1	7014.9	7202.8	8292.6	8598.0
50°	7202.1	7509.7	7780.4	7885.5	7456.0	7517.7	8669.2	8987.6
52.5°	7743.3	8413.1	8748.3	8679.3	7931.2	7902.2	9265.6	9524.6
55°	8420.3	9369.3	9702.4	9653.1	8477.6	8426.0	10008.6	10159.5
57.5°	9203.9	10295.9	10602.1	10380.1	9133.5	9000.7	10623.1	10655.1
60°	9892.4	11030.2	11298.6	11052.7	9795.3	9612.4	11007.0	10852.4
62.5°	10275.5	11279.1	11467.7	11202.8	10248.7	10264.0	11091.1	10745.8
65°	10104.3	10649.9	10710.9	10689.1	10131.9	10642.0	10788.6	10253.1
67.5°	9166.9	9059.6	9161.9	9303.3	9130.7	10144.3	9950.5	9180.0
70°	7515.5	6925.6	7129.5	7224.6	7302.9	8729.4	8636.5	7477.1
72.5°	5663.9	4852.0	5013.0	4993.4	5356.2	7001.8	6716.6	5497.6
75°	4013.1	3289.7	3310.1	3302.1	3737.5	5478.1	4863.5	3761.4
77.5°	2808.0	2383.5	2394.4	2439.4	2512.7	4131.4	3474.8	2747.7
80°	1930.7	1808.9	1869.0	1872.7	1741.4	2775.4	2567.1	2205.0
82.5°	1438.1	1257.4	1242.9	1264.0	1364.8	2248.5	1972.9	1529.5
85°	1177.6	744.4	598.6	750.2	1209.5	2226.8	1310.4	806.8
87.5°	663.2	353.3	159.6	296.0	482.5	1474.4	378.8	103.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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