

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: P192130

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192130
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 10703 lumens
Efficiency: N/A
Efficacy: 94.7 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

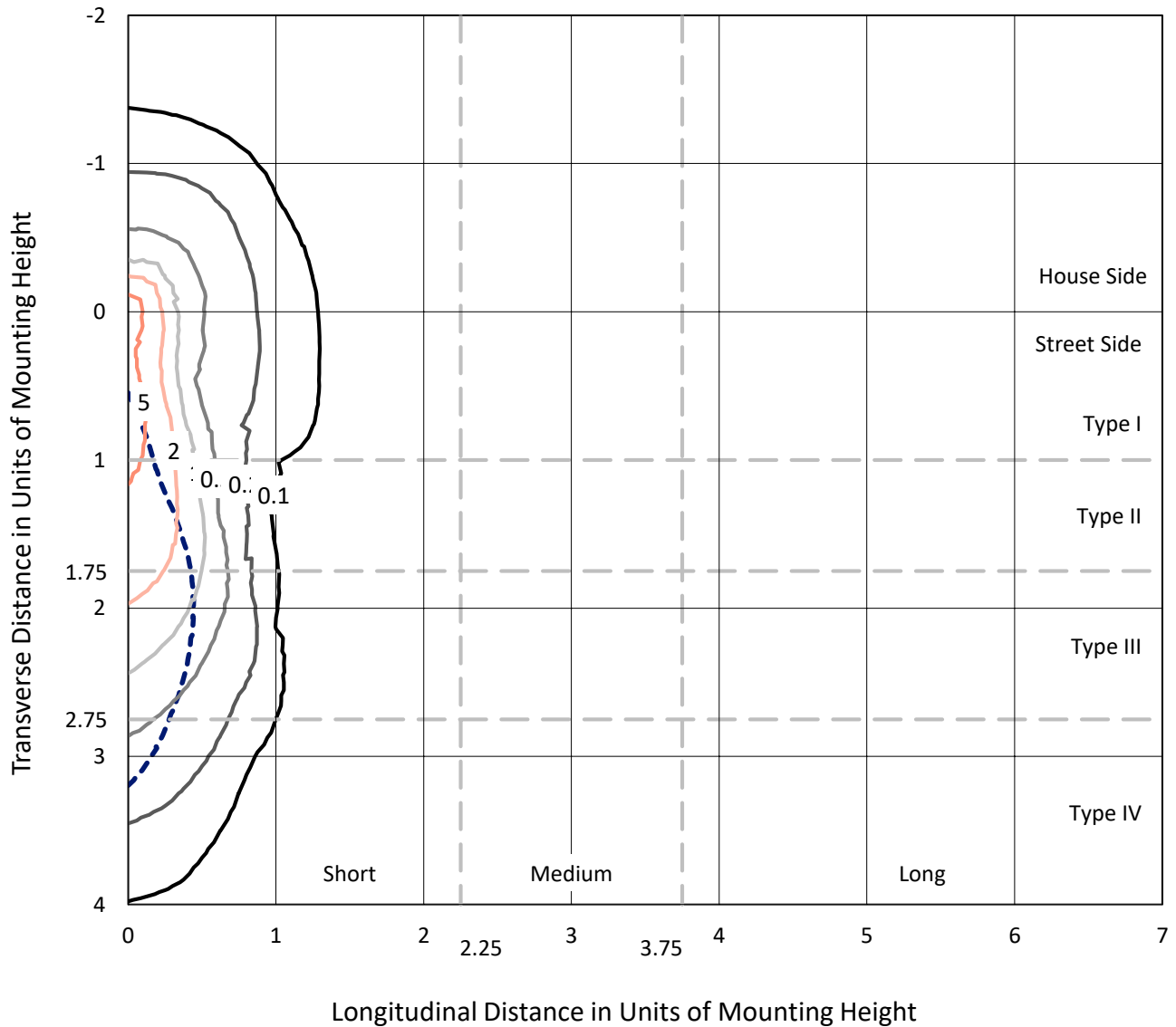
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

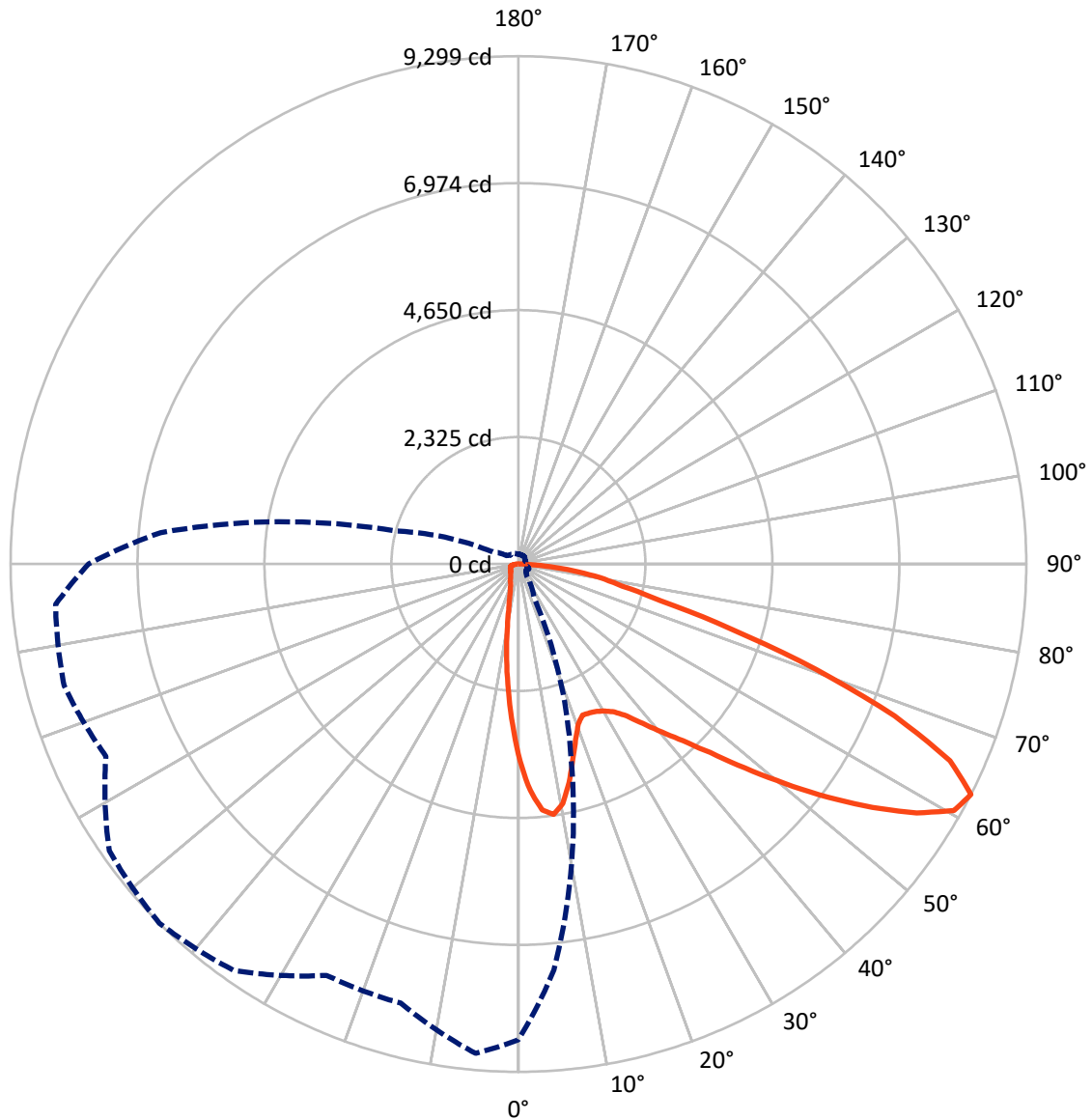
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 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	1771.2	0.0	1771.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8931.8	0.0	8931.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	10703.0	0.0	10703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	2.5
10°-20°	482.7	4.5
20°-30°	703.8	6.6
30°-40°	1083.9	10.1
40°-50°	1595.2	14.9
50°-60°	2339.9	21.9
60°-70°	2615.6	24.4
70°-80°	1280.6	12.0
80°-90°	338.1	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°	10703.0	100.0
0°-180°	10703.0	100.0



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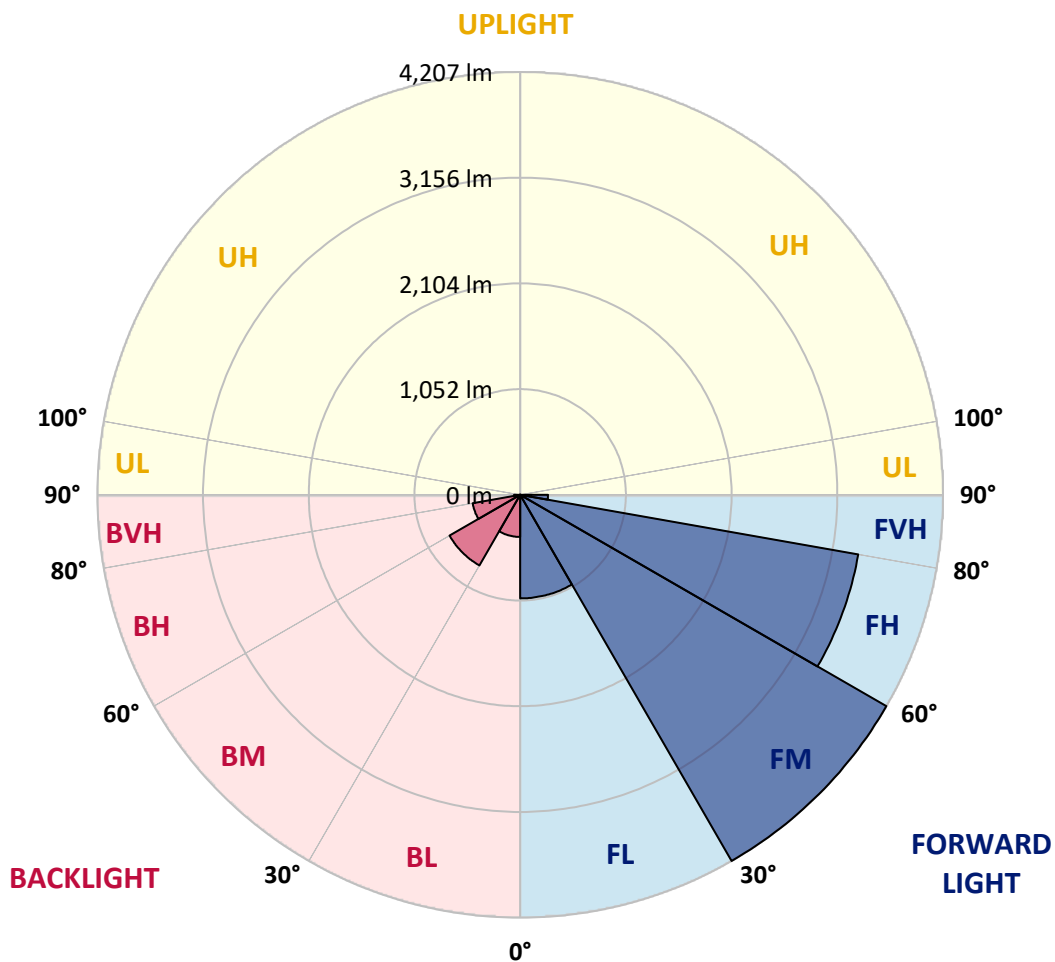
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1030.7	9.6			
FM	(30°-60°)	4207.4	39.3			
FH	(60°-80°)	3416.0	31.9			G2/5000
FVH	(80°-90°)	277.7	2.6			G3/500
BL	(0°-30°)	419.0	3.9	B1/500		
BM	(30°-60°)	811.5	7.6	B1/1000		
BH	(60°-80°)	480.2	4.5	B1/500		G1/500
BVH	(80°-90°)	60.4	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°	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0
2.5°	3757.3	3680.8	3553.7	3421.3	3340.7	3246.6	3173.0	3108.3	2978.9	2953.6	2976.5
5°	3533.1	3379.5	3140.1	2898.8	2738.2	2565.8	2431.7	2324.0	2159.9	2131.0	2165.7
7.5°	3173.6	2990.0	2673.5	2365.8	2138.7	1923.3	1778.6	1663.3	1535.0	1479.7	1483.3
10°	2863.5	2656.4	2282.2	1947.5	1761.5	1616.2	1494.4	1376.2	1246.1	1160.8	1137.3
12.5°	2690.0	2451.7	2020.4	1721.5	1549.1	1396.2	1265.0	1138.5	999.6	912.5	887.8
15°	2660.0	2401.1	1922.2	1576.8	1360.9	1167.3	1012.6	871.4	728.4	657.8	643.1
17.5°	2790.0	2491.7	1890.4	1447.9	1183.8	944.9	754.9	597.2	480.7	445.4	442.4
20°	3039.5	2665.9	1886.3	1326.7	1009.0	729.0	526.0	411.3	360.1	350.1	350.7
22.5°	3389.5	2935.9	1936.9	1235.6	848.4	543.6	395.4	344.2	324.2	314.8	314.8
25°	3842.6	3307.8	2053.4	1169.1	709.0	434.2	348.9	318.3	299.5	293.0	294.2
27.5°	4281.5	3669.6	2188.7	1116.7	617.8	394.2	330.7	303.0	286.5	280.1	283.0
30°	4623.9	3990.8	2301.7	1045.5	571.3	383.0	337.1	308.9	285.4	275.4	275.9
32.5°	4907.5	4272.1	2396.4	994.3	530.1	328.3	290.6	278.3	275.4	263.6	257.7
35°	5269.9	4578.6	2459.9	995.5	510.7	293.0	258.9	237.1	221.2	207.7	207.7
37.5°	5694.7	4930.4	2527.6	1009.0	503.6	272.4	247.7	225.9	211.2	198.3	195.9
40°	6114.8	5275.2	2589.4	1022.0	499.5	260.1	238.9	218.9	205.3	192.4	188.9
42.5°	6471.9	5558.8	2644.7	1028.5	485.4	258.9	232.4	214.2	201.2	187.1	183.6
45°	6736.1	5796.5	2704.1	1038.5	471.3	263.6	232.4	213.6	197.7	184.2	180.6
47.5°	6972.0	6075.4	2803.5	1038.5	454.2	254.8	240.1	214.2	197.1	183.0	180.0
50°	7288.0	6457.8	2991.8	1014.3	430.1	245.3	253.0	211.8	191.8	180.6	177.1
52.5°	7723.4	6947.9	3290.7	972.6	393.0	227.1	251.2	210.6	186.5	174.7	170.6
55°	8238.2	7472.7	3616.6	923.7	337.7	214.2	242.4	207.7	180.6	167.7	163.6
57.5°	8640.0	7834.0	3846.1	848.4	289.5	207.1	214.8	204.7	173.6	160.0	156.5
60°	8800.1	7819.9	3909.1	747.8	265.9	201.2	187.7	229.5	167.7	154.1	150.0
62.5°	8713.6	7458.6	3732.5	677.2	260.6	193.6	175.9	212.4	163.0	150.0	144.1
65°	8314.1	6818.5	3264.8	658.4	275.9	185.9	168.3	166.5	156.5	144.1	138.3
67.5°	7443.9	5861.8	2614.1	660.1	295.4	178.3	160.6	152.4	147.7	137.7	132.4
70°	6063.0	4634.5	1948.6	664.8	305.4	169.4	152.4	143.6	138.3	128.3	124.7
72.5°	4458.0	3571.9	1415.6	634.3	307.1	159.4	141.2	133.6	128.3	117.7	114.7
75°	3050.0	2732.3	982.0	525.4	267.7	145.3	128.9	121.8	118.3	105.3	103.6
77.5°	2228.1	2051.0	628.4	390.1	206.5	127.7	113.6	108.3	105.9	91.8	89.4
80°	1788.0	1622.7	393.0	267.1	151.2	107.1	95.3	92.4	90.0	75.9	74.1
82.5°	1240.3	1086.7	252.4	173.6	113.6	83.0	75.3	74.1	70.6	57.7	55.9
85°	654.3	590.1	160.0	118.3	82.4	57.1	52.4	52.4	50.6	38.2	37.1
87.5°	83.5	135.9	81.2	61.8	45.3	25.3	25.3	24.7	26.5	21.8	18.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0
2.5°	2922.4	2950.6	2923.6	2925.3	2955.3	3044.8	3085.4	3118.9	3154.8	3178.3	3188.9
5°	2118.1	2184.0	2206.3	2253.4	2322.8	2437.0	2482.3	2515.2	2537.0	2549.9	2555.2
7.5°	1448.5	1488.5	1533.3	1609.2	1760.4	1827.4	1857.4	1849.8	1825.1	1816.3	1807.4
10°	1092.0	1076.1	1067.9	1109.6	1232.0	1299.7	1320.9	1300.3	1286.7	1289.7	1304.4
12.5°	846.1	818.4	784.9	780.2	860.8	921.4	934.9	936.1	960.8	982.6	1014.9
15°	616.6	613.7	597.2	587.2	633.1	682.5	688.4	699.0	721.3	737.2	765.5
17.5°	434.8	450.7	463.6	470.1	504.8	540.1	533.6	528.3	524.2	524.2	537.8
20°	350.7	361.3	377.7	396.6	431.9	456.6	440.7	419.5	404.2	399.5	401.3
22.5°	315.9	324.2	333.6	350.1	381.8	398.9	381.8	366.5	351.2	346.0	344.2
25°	298.3	308.9	317.7	330.1	353.6	365.4	348.9	337.7	328.3	321.8	317.1
27.5°	288.3	297.7	300.1	305.9	326.0	336.5	328.3	323.6	317.7	311.8	305.9
30°	277.7	275.9	271.8	272.4	288.3	298.9	298.3	299.5	298.9	297.1	295.9
32.5°	253.6	250.1	246.5	250.1	264.8	274.2	274.8	277.1	277.1	276.5	281.2
35°	211.2	217.7	221.8	232.4	250.1	258.3	254.8	248.9	238.3	231.8	231.2
37.5°	195.3	196.5	203.6	218.3	237.7	245.3	240.1	226.5	219.5	218.3	220.0
40°	187.7	188.9	193.0	206.5	225.9	233.6	228.9	218.9	212.4	211.8	214.8
42.5°	182.4	183.6	185.9	195.3	211.2	220.6	221.2	214.2	206.5	207.1	210.0
45°	179.4	180.0	179.4	184.2	198.9	210.0	214.8	210.0	203.6	204.7	208.3
47.5°	178.9	177.1	174.7	175.9	191.2	202.4	208.3	206.5	203.6	204.7	207.7
50°	176.5	172.4	169.4	168.9	184.2	195.9	201.2	201.2	202.4	204.7	207.7
52.5°	169.4	164.7	164.7	163.0	179.4	190.6	194.2	194.7	196.5	200.6	204.7
55°	160.6	158.9	160.6	157.7	175.9	186.5	188.3	189.5	190.6	194.2	200.0
57.5°	153.0	150.6	154.7	153.6	173.0	182.4	182.4	184.7	184.7	189.5	194.2
60°	148.9	144.1	145.9	147.1	168.9	178.9	177.7	180.0	181.2	185.3	188.9
62.5°	143.6	139.4	139.4	142.4	164.2	173.6	173.0	174.7	179.4	180.6	184.2
65°	137.1	135.3	133.6	137.1	159.4	167.7	168.3	170.6	174.7	175.9	178.9
67.5°	130.6	131.2	127.7	131.2	155.3	161.8	161.8	166.5	168.3	170.6	173.6
70°	123.6	124.1	121.2	125.3	152.4	155.3	154.7	161.2	162.4	164.2	167.1
72.5°	114.7	114.7	113.6	119.4	147.7	148.9	147.7	153.0	153.6	155.3	156.5
75°	105.3	105.3	104.1	112.4	144.7	141.8	138.3	142.4	143.6	144.7	144.7
77.5°	93.0	94.1	94.1	104.1	134.7	138.9	127.1	129.4	131.2	131.8	130.0
80°	77.7	80.6	81.8	94.7	113.0	128.3	113.6	115.3	115.9	115.9	113.6
82.5°	59.4	64.7	67.7	81.8	86.5	107.7	98.8	100.6	98.8	95.3	94.1
85°	41.2	48.2	51.8	62.4	65.3	83.0	82.4	82.4	78.8	74.1	73.5
87.5°	22.4	26.5	28.8	37.1	44.7	55.9	60.6	58.8	55.9	53.0	53.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0
2.5°	3244.2	3324.2	3451.9	3549.6	3647.8	3742.5	3844.9	3923.2	3989.7	4015.5	4094.4
5°	2608.8	2708.8	2829.4	3047.1	3201.3	3371.3	3567.8	3827.9	3927.9	4066.1	4292.7
7.5°	1844.5	1935.1	2129.3	2305.2	2523.5	2764.1	3029.5	3388.4	3519.6	3741.4	4110.3
10°	1377.3	1482.7	1638.6	1786.8	1979.2	2225.2	2529.9	2931.2	3090.6	3331.3	3756.1
12.5°	1109.6	1233.8	1399.1	1538.6	1687.4	1861.0	2156.9	2597.0	2810.6	3021.2	3450.7
15°	852.5	982.6	1136.1	1313.2	1477.4	1664.5	1974.5	2455.8	2701.7	2921.2	3287.7
17.5°	590.1	701.3	894.9	1079.6	1289.7	1529.1	1923.9	2485.8	2779.4	3032.4	3316.0
20°	418.3	481.9	640.7	854.9	1116.7	1417.4	1914.5	2643.5	3025.3	3314.2	3497.2
22.5°	351.8	375.4	467.7	664.3	966.7	1333.8	1947.5	2864.7	3357.2	3726.1	3786.1
25°	320.7	334.8	383.0	521.3	833.1	1273.2	2058.7	3194.2	3767.8	4137.9	4127.3
27.5°	303.6	318.3	350.1	440.1	732.5	1235.6	2169.9	3584.9	4237.4	4585.1	4453.3
30°	298.3	318.3	351.8	414.8	660.7	1176.1	2261.1	3927.9	4598.6	4886.9	4601.6
32.5°	294.2	297.1	312.4	357.7	592.5	1106.7	2322.8	4235.6	4952.2	5174.0	4815.1
35°	237.7	252.4	277.1	320.7	552.5	1064.9	2322.8	4500.9	5300.5	5464.1	5018.7
37.5°	228.9	241.8	263.6	300.7	530.1	1044.3	2276.4	4756.9	5656.5	5793.0	5186.4
40°	224.2	234.8	255.3	285.4	520.7	1020.8	2208.7	4982.8	6004.2	6122.5	5342.9
42.5°	220.6	230.0	249.5	275.9	508.3	994.9	2154.0	5164.0	6306.0	6403.7	5492.3
45°	218.9	228.9	250.1	280.6	483.6	960.8	2135.7	5359.9	6554.3	6638.4	5654.1
47.5°	218.9	230.6	253.0	290.6	454.2	925.5	2192.8	5618.2	6789.1	6830.3	5844.8
50°	217.1	230.0	261.2	280.6	411.3	880.8	2327.0	5943.6	7043.2	7047.9	6086.0
52.5°	213.6	228.9	281.2	274.8	361.8	821.9	2508.2	6361.3	7419.2	7447.4	6463.7
55°	209.5	227.1	275.9	261.2	321.2	751.9	2656.4	6869.1	7947.5	8025.8	7019.1
57.5°	204.2	224.8	267.1	242.4	294.8	661.9	2710.0	7240.9	8316.4	8513.0	7645.1
60°	199.5	223.0	241.2	231.2	278.3	586.0	2606.4	7167.4	8291.1	8714.8	8199.9
62.5°	194.7	224.8	220.0	224.2	270.6	537.2	2335.8	6578.4	7871.6	8506.5	8611.2
65°	189.5	208.9	207.7	218.3	268.9	517.8	1936.3	5695.3	7060.9	7848.1	8708.3
67.5°	182.4	193.0	198.9	210.6	274.8	500.7	1562.7	4698.0	5934.2	6861.4	8202.3
70°	174.7	183.6	190.0	201.2	271.2	493.0	1299.7	3704.9	4708.6	5623.5	7203.9
72.5°	164.7	172.4	178.3	188.9	267.7	488.9	1097.9	2983.6	3515.4	4177.3	5857.1
75°	153.0	160.0	164.2	174.7	256.5	447.7	863.1	2524.6	2630.5	2905.9	4665.1
77.5°	139.4	144.7	148.3	160.0	227.1	372.4	624.2	1947.5	2042.8	2109.9	3576.6
80°	123.6	128.9	130.6	141.8	188.3	291.2	407.1	1438.5	1528.0	1543.3	2335.8
82.5°	105.3	110.6	110.6	121.2	154.1	209.5	267.1	985.5	1003.2	1054.9	1650.9
85°	84.7	88.8	88.8	94.1	119.4	156.5	183.6	494.8	489.5	558.9	1430.3
87.5°	60.6	63.5	66.5	67.7	85.3	103.6	110.6	150.6	99.4	114.1	918.4
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°	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0	3616.0
2.5°	4153.8	4187.3	4153.2	4128.5	4022.0	3934.4	3817.3	3757.3
5°	4465.1	4550.4	4521.5	4418.0	4195.6	3945.5	3661.4	3533.1
7.5°	4427.4	4625.7	4630.4	4436.8	4109.1	3740.8	3356.0	3173.6
10°	4134.4	4388.0	4460.3	4272.7	3924.9	3513.1	3071.8	2863.5
12.5°	3807.3	4055.6	4110.9	4046.1	3755.5	3341.9	2894.1	2690.0
15°	3539.6	3650.8	3716.7	3773.1	3610.2	3273.6	2884.1	2660.0
17.5°	3376.6	3364.2	3383.1	3481.3	3509.0	3351.9	3037.1	2790.0
20°	3317.8	3128.9	3124.2	3259.5	3461.3	3538.4	3336.0	3039.5
22.5°	3350.1	3044.2	3005.3	3166.0	3486.6	3807.3	3727.8	3389.5
25°	3461.9	3051.2	3020.0	3175.4	3578.4	4093.8	4150.9	3842.6
27.5°	3637.8	3095.9	3054.8	3214.2	3700.2	4334.4	4567.4	4281.5
30°	3804.9	3173.6	3122.4	3290.7	3811.4	4429.7	4822.8	4623.9
32.5°	4007.9	3318.9	3228.9	3431.3	3949.1	4581.5	5050.5	4907.5
35°	4206.8	3526.0	3414.2	3648.4	4102.6	4770.4	5310.5	5269.9
37.5°	4425.0	3796.7	3704.3	3929.1	4312.7	4948.7	5642.4	5694.7
40°	4658.0	4155.6	4046.1	4338.6	4638.6	5172.3	5988.9	6114.8
42.5°	4892.8	4553.9	4423.3	4719.8	4996.9	5392.9	6285.4	6471.9
45°	5161.7	4986.3	4924.6	5245.2	5341.1	5602.9	6504.3	6736.1
47.5°	5474.7	5477.0	5576.5	5704.7	5688.2	5840.6	6724.3	6972.0
50°	5840.0	6089.5	6309.0	6394.3	6046.0	6096.0	7029.7	7288.0
52.5°	6279.0	6822.0	7093.8	7037.9	6431.3	6407.8	7513.3	7723.4
55°	6827.9	7597.5	7867.5	7827.5	6874.4	6832.6	8115.8	8238.2
57.5°	7463.3	8348.8	8597.1	8417.1	7406.3	7298.6	8614.2	8640.0
60°	8021.7	8944.2	9161.9	8962.5	7942.8	7794.6	8925.4	8800.1
62.5°	8332.3	9146.0	9299.0	9084.3	8310.6	8322.9	8993.6	8713.6
65°	8193.5	8635.9	8685.3	8667.7	8215.8	8629.5	8748.3	8314.1
67.5°	7433.3	7346.2	7429.2	7543.9	7403.9	8225.8	8068.7	7443.9
70°	6094.2	5615.9	5781.2	5858.3	5921.8	7078.5	7003.2	6063.0
72.5°	4592.7	3934.4	4065.0	4049.1	4343.3	5677.7	5446.4	4458.0
75°	3254.2	2667.6	2684.1	2677.6	3030.6	4442.1	3943.8	3050.0
77.5°	2276.9	1932.8	1941.6	1978.1	2037.5	3350.1	2817.6	2228.1
80°	1565.6	1466.8	1515.6	1518.6	1412.1	2250.5	2081.6	1788.0
82.5°	1166.1	1019.6	1007.9	1024.9	1106.7	1823.3	1599.7	1240.3
85°	954.9	603.7	485.4	608.4	980.8	1805.7	1062.6	654.3
87.5°	537.8	286.5	129.4	240.1	391.3	1195.5	307.1	83.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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