

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: P193851

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193851
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-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 8586 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

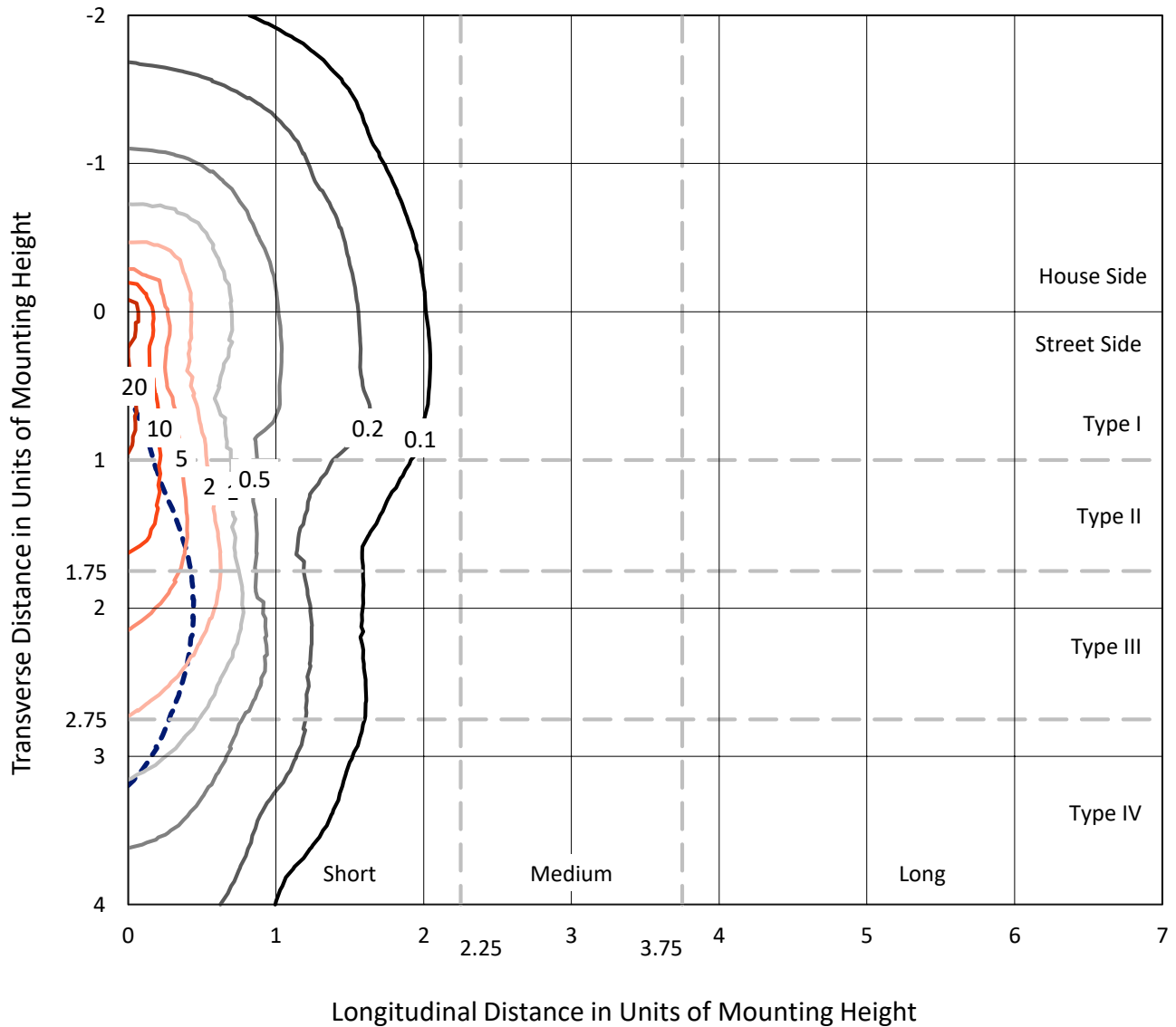
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

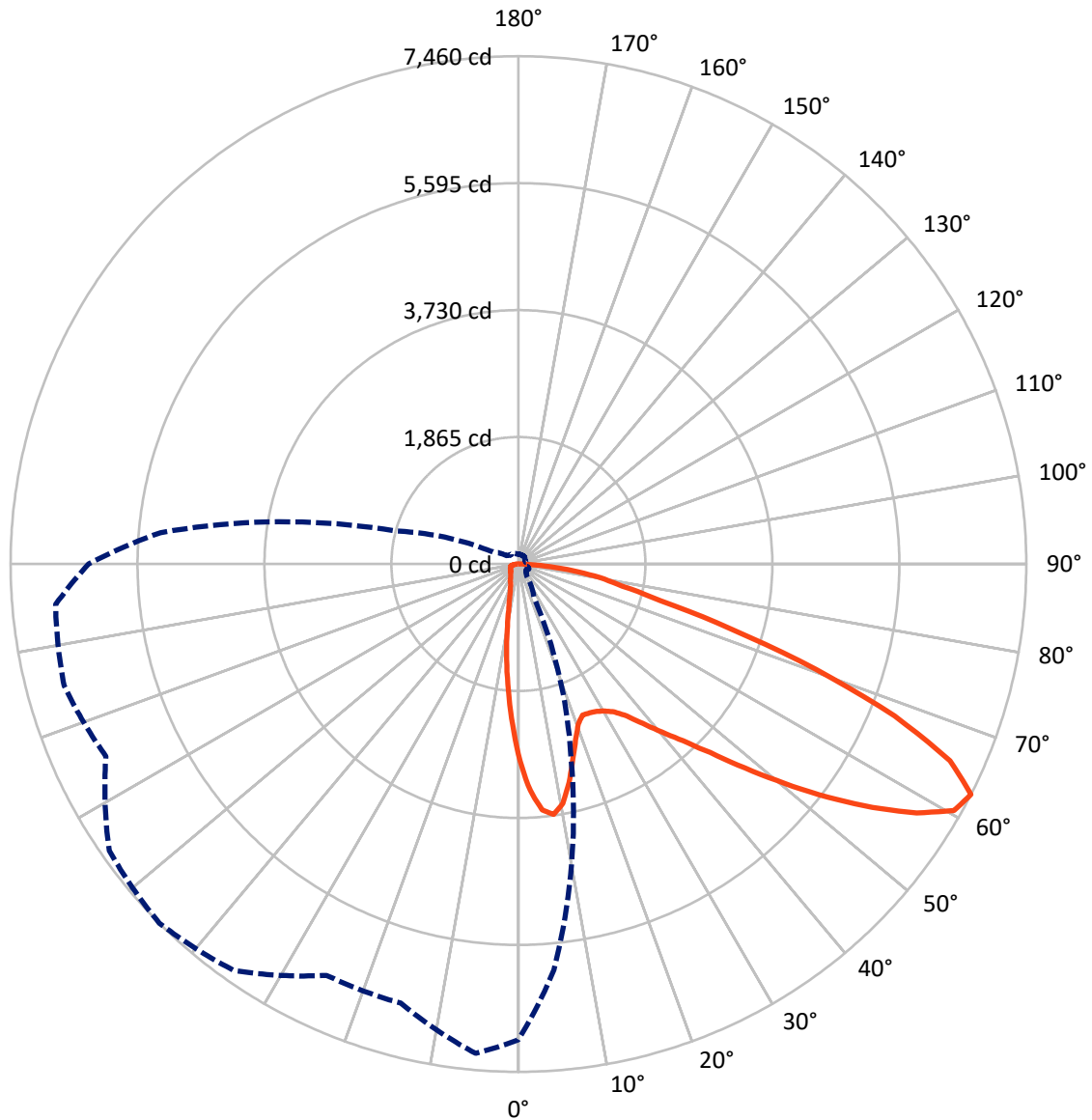
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29 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	1420.9	0.0	1420.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7165.1	0.0	7165.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	8586.0	0.0	8586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	2.5
10°-20°	387.2	4.5
20°-30°	564.6	6.6
30°-40°	869.5	10.1
40°-50°	1279.7	14.9
50°-60°	1877.1	21.9
60°-70°	2098.3	24.4
70°-80°	1027.3	12.0
80°-90°	271.2	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°	8586.0	100.0
0°-180°	8586.0	100.0

Coefficient of Utilization



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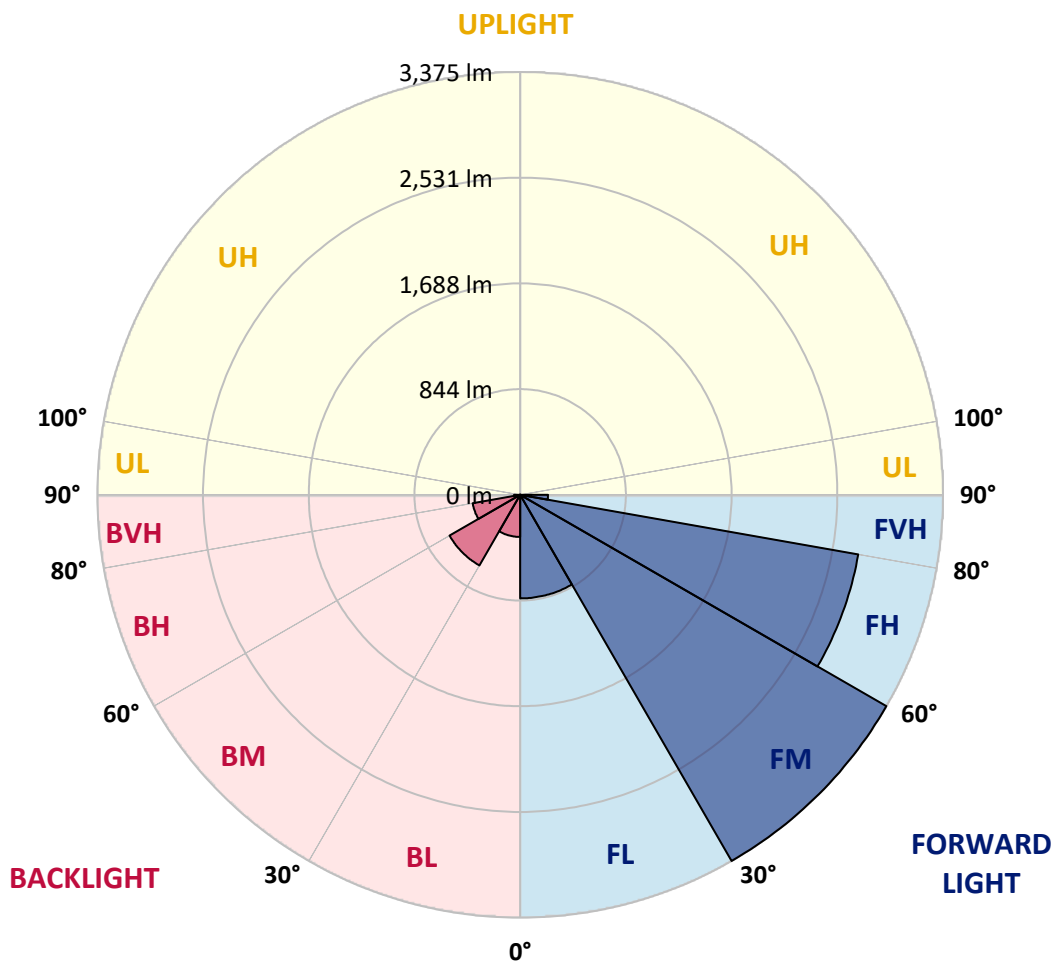
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.8	9.6			
FM (30°-60°)	3375.2	39.3			
FH (60°-80°)	2740.4	31.9			G2/5000
FVH (80°-90°)	222.7	2.6			G2/225
BL (0°-30°)	336.2	3.9	B1/500		
BM (30°-60°)	651.0	7.6	B1/1000		
BH (60°-80°)	385.2	4.5	B1/500		G1/500
BVH (80°-90°)	48.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8
2.5°	3014.1	2952.7	2850.8	2744.6	2679.9	2604.4	2545.4	2493.5	2389.7	2369.4	2387.8
5°	2834.3	2711.1	2519.0	2325.5	2196.6	2058.3	1950.7	1864.3	1732.7	1709.5	1737.4
7.5°	2545.9	2398.6	2144.7	1897.8	1715.7	1542.9	1426.8	1334.3	1231.4	1187.0	1189.9
10°	2297.1	2131.0	1830.8	1562.3	1413.1	1296.5	1198.8	1104.0	999.7	931.2	912.3
12.5°	2157.9	1966.8	1620.8	1381.0	1242.7	1120.0	1014.8	913.3	801.9	732.0	712.2
15°	2133.8	1926.2	1542.0	1264.9	1091.7	936.4	812.3	699.0	584.3	527.7	515.9
17.5°	2238.1	1998.9	1516.5	1161.6	949.6	758.0	605.6	479.1	385.6	357.3	354.9
20°	2438.3	2138.6	1513.2	1064.3	809.5	584.8	422.0	329.9	288.9	280.8	281.3
22.5°	2719.1	2355.2	1553.8	991.2	680.6	436.1	317.2	276.1	260.1	252.5	252.5
25°	3082.5	2653.5	1647.2	937.8	568.7	348.3	279.9	255.3	240.2	235.0	236.0
27.5°	3434.6	2943.8	1755.8	895.8	495.6	316.2	265.3	243.1	229.9	224.7	227.0
30°	3709.3	3201.5	1846.4	838.7	458.3	307.3	270.4	247.8	228.9	220.9	221.4
32.5°	3936.8	3427.1	1922.4	797.7	425.3	263.4	233.2	223.2	220.9	211.4	206.7
35°	4227.6	3673.0	1973.4	798.6	409.7	235.0	207.7	190.2	177.5	166.6	166.6
37.5°	4568.3	3955.2	2027.6	809.5	404.0	218.5	198.7	181.2	169.4	159.1	157.2
40°	4905.3	4231.8	2077.2	819.8	400.7	208.6	191.6	175.6	164.7	154.3	151.5
42.5°	5191.8	4459.3	2121.6	825.0	389.4	207.7	186.4	171.8	161.4	150.1	147.3
45°	5403.7	4650.0	2169.2	833.1	378.1	211.4	186.4	171.3	158.6	147.7	144.9
47.5°	5593.0	4873.7	2249.0	833.1	364.4	204.4	192.6	171.8	158.1	146.8	144.4
50°	5846.5	5180.5	2400.0	813.7	345.0	196.8	203.0	169.9	153.9	144.9	142.1
52.5°	6195.7	5573.7	2639.8	780.2	315.3	182.2	201.5	169.0	149.6	140.2	136.9
55°	6608.7	5994.7	2901.3	741.0	270.9	171.8	194.5	166.6	144.9	134.5	131.2
57.5°	6931.1	6284.5	3085.4	680.6	232.2	166.1	172.3	164.3	139.2	128.4	125.5
60°	7059.5	6273.1	3135.9	599.9	213.3	161.4	150.6	184.1	134.5	123.7	120.4
62.5°	6990.1	5983.3	2994.3	543.3	209.1	155.3	141.1	170.4	130.7	120.4	115.6
65°	6669.6	5469.8	2619.0	528.2	221.4	149.1	135.0	133.6	125.5	115.6	110.9
67.5°	5971.5	4702.4	2097.0	529.6	236.9	143.0	128.9	122.2	118.5	110.4	106.2
70°	4863.8	3717.8	1563.2	533.3	245.0	135.9	122.2	115.2	110.9	102.9	100.1
72.5°	3576.2	2865.4	1135.6	508.8	246.4	127.9	113.3	107.1	102.9	94.4	92.0
75°	2446.8	2191.9	787.7	421.5	214.8	116.6	103.4	97.7	94.9	84.5	83.1
77.5°	1787.4	1645.3	504.1	312.9	165.7	102.4	91.1	86.8	85.0	73.6	71.7
80°	1434.4	1301.7	315.3	214.3	121.3	85.9	76.5	74.1	72.2	60.9	59.5
82.5°	994.9	871.8	202.5	139.2	91.1	66.5	60.4	59.5	56.6	46.3	44.8
85°	524.8	473.4	128.4	94.9	66.1	45.8	42.0	42.0	40.6	30.7	29.7
87.5°	67.0	109.0	65.1	49.6	36.3	20.3	20.3	19.8	21.2	17.5	15.1
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°	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8
2.5°	2344.3	2367.0	2345.3	2346.7	2370.8	2442.5	2475.1	2502.0	2530.8	2549.7	2558.2
5°	1699.1	1752.0	1769.9	1807.7	1863.4	1955.0	1991.3	2017.7	2035.2	2045.6	2049.8
7.5°	1162.0	1194.1	1230.0	1290.9	1412.2	1466.0	1490.1	1483.9	1464.1	1457.0	1449.9
10°	876.0	863.3	856.7	890.2	988.3	1042.6	1059.6	1043.1	1032.2	1034.6	1046.4
12.5°	678.7	656.5	629.6	625.9	690.5	739.1	750.0	750.9	770.7	788.2	814.2
15°	494.6	492.3	479.1	471.0	507.9	547.5	552.2	560.7	578.7	591.4	614.1
17.5°	348.8	361.5	371.9	377.1	405.0	433.3	428.1	423.8	420.5	420.5	431.4
20°	281.3	289.8	303.0	318.1	346.4	366.3	353.5	336.5	324.3	320.5	321.9
22.5°	253.5	260.1	267.6	280.8	306.3	320.0	306.3	294.0	281.8	277.5	276.1
25°	239.3	247.8	254.9	264.8	283.7	293.1	279.9	270.9	263.4	258.2	254.4
27.5°	231.3	238.8	240.7	245.4	261.5	270.0	263.4	259.6	254.9	250.2	245.4
30°	222.8	221.4	218.1	218.5	231.3	239.8	239.3	240.2	239.8	238.4	237.4
32.5°	203.4	200.6	197.8	200.6	212.4	219.9	220.4	222.3	222.3	221.8	225.6
35°	169.4	174.6	177.9	186.4	200.6	207.2	204.4	199.6	191.2	186.0	185.5
37.5°	156.7	157.6	163.3	175.1	190.7	196.8	192.6	181.7	176.1	175.1	176.5
40°	150.6	151.5	154.8	165.7	181.2	187.4	183.6	175.6	170.4	169.9	172.3
42.5°	146.3	147.3	149.1	156.7	169.4	177.0	177.5	171.8	165.7	166.1	168.5
45°	144.0	144.4	144.0	147.7	159.5	168.5	172.3	168.5	163.3	164.3	167.1
47.5°	143.5	142.1	140.2	141.1	153.4	162.4	167.1	165.7	163.3	164.3	166.6
50°	141.6	138.3	135.9	135.5	147.7	157.2	161.4	161.4	162.4	164.3	166.6
52.5°	135.9	132.2	132.2	130.7	144.0	152.9	155.8	156.2	157.6	160.9	164.3
55°	128.9	127.4	128.9	126.5	141.1	149.6	151.0	152.0	152.9	155.8	160.5
57.5°	122.7	120.8	124.1	123.2	138.8	146.3	146.3	148.2	148.2	152.0	155.8
60°	119.4	115.6	117.1	118.0	135.5	143.5	142.5	144.4	145.4	148.7	151.5
62.5°	115.2	111.9	111.9	114.2	131.7	139.2	138.8	140.2	144.0	144.9	147.7
65°	110.0	108.6	107.1	110.0	127.9	134.5	135.0	136.9	140.2	141.1	143.5
67.5°	104.8	105.3	102.4	105.3	124.6	129.8	129.8	133.6	135.0	136.9	139.2
70°	99.1	99.6	97.2	100.5	122.2	124.6	124.1	129.3	130.3	131.7	134.0
72.5°	92.0	92.0	91.1	95.8	118.5	119.4	118.5	122.7	123.2	124.6	125.5
75°	84.5	84.5	83.5	90.1	116.1	113.7	110.9	114.2	115.2	116.1	116.1
77.5°	74.6	75.5	75.5	83.5	108.1	111.4	101.9	103.8	105.3	105.7	104.3
80°	62.3	64.7	65.6	76.0	90.6	102.9	91.1	92.5	93.0	93.0	91.1
82.5°	47.7	51.9	54.3	65.6	69.4	86.4	79.3	80.7	79.3	76.5	75.5
85°	33.0	38.7	41.5	50.0	52.4	66.5	66.1	66.1	63.2	59.5	59.0
87.5°	17.9	21.2	23.1	29.7	35.9	44.8	48.6	47.2	44.8	42.5	43.0
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°	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8
2.5°	2602.5	2666.7	2769.1	2847.5	2926.3	3002.3	3084.4	3147.2	3200.5	3221.3	3284.5
5°	2092.8	2173.0	2269.8	2444.4	2568.1	2704.5	2862.1	3070.7	3151.0	3261.9	3443.6
7.5°	1479.7	1552.4	1708.1	1849.2	2024.3	2217.4	2430.2	2718.2	2823.4	3001.3	3297.3
10°	1104.9	1189.4	1314.5	1433.4	1587.8	1785.0	2029.5	2351.4	2479.3	2672.4	3013.1
12.5°	890.2	989.8	1122.4	1234.2	1353.6	1492.9	1730.3	2083.3	2254.7	2423.6	2768.2
15°	683.9	788.2	911.4	1053.5	1185.2	1335.2	1584.0	1970.1	2167.4	2343.4	2637.4
17.5°	473.4	562.6	717.9	866.1	1034.6	1226.7	1543.4	1994.1	2229.7	2432.6	2660.1
20°	335.6	386.6	514.0	685.8	895.8	1137.0	1535.8	2120.6	2426.9	2658.7	2805.5
22.5°	282.2	301.1	375.2	532.9	775.5	1070.0	1562.3	2298.1	2693.1	2989.1	3037.2
25°	257.2	268.6	307.3	418.2	668.3	1021.4	1651.5	2562.4	3022.6	3319.5	3311.0
27.5°	243.5	255.3	280.8	353.0	587.6	991.2	1740.7	2875.8	3399.2	3678.2	3572.4
30°	239.3	255.3	282.2	332.7	530.0	943.5	1813.8	3151.0	3689.0	3920.3	3691.4
32.5°	236.0	238.4	250.6	287.0	475.3	887.8	1863.4	3397.8	3972.7	4150.6	3862.7
35°	190.7	202.5	222.3	257.2	443.2	854.3	1863.4	3610.7	4252.1	4383.3	4026.0
37.5°	183.6	194.0	211.4	241.2	425.3	837.8	1826.1	3816.0	4537.7	4647.2	4160.5
40°	179.8	188.3	204.8	228.9	417.7	818.9	1771.8	3997.2	4816.6	4911.5	4286.1
42.5°	177.0	184.5	200.1	221.4	407.8	798.1	1727.9	4142.6	5058.7	5137.1	4406.0
45°	175.6	183.6	200.6	225.1	388.0	770.7	1713.3	4299.8	5257.9	5325.4	4535.8
47.5°	175.6	185.0	203.0	233.2	364.4	742.4	1759.1	4507.0	5446.2	5479.3	4688.7
50°	174.2	184.5	209.6	225.1	329.9	706.6	1866.7	4768.0	5650.1	5653.9	4882.2
52.5°	171.3	183.6	225.6	220.4	290.3	659.4	2012.1	5103.1	5951.7	5974.4	5185.2
55°	168.0	182.2	221.4	209.6	257.7	603.2	2131.0	5510.4	6375.6	6438.3	5630.8
57.5°	163.8	180.3	214.3	194.5	236.5	531.0	2174.0	5808.7	6671.5	6829.1	6133.0
60°	160.0	178.9	193.5	185.5	223.2	470.1	2090.9	5749.7	6651.2	6991.0	6578.0
62.5°	156.2	180.3	176.5	179.8	217.1	430.9	1873.8	5277.3	6314.7	6823.9	6908.0
65°	152.0	167.6	166.6	175.1	215.7	415.3	1553.3	4568.8	5664.3	6295.8	6985.8
67.5°	146.3	154.8	159.5	169.0	220.4	401.7	1253.6	3768.8	4760.4	5504.3	6579.9
70°	140.2	147.3	152.5	161.4	217.6	395.5	1042.6	2972.1	3777.3	4511.2	5779.0
72.5°	132.2	138.3	143.0	151.5	214.8	392.2	880.7	2393.4	2820.1	3351.1	4698.6
75°	122.7	128.4	131.7	140.2	205.8	359.2	692.4	2025.3	2110.2	2331.1	3742.4
77.5°	111.9	116.1	118.9	128.4	182.2	298.8	500.8	1562.3	1638.7	1692.5	2869.2
80°	99.1	103.4	104.8	113.7	151.0	233.6	326.6	1154.0	1225.7	1238.0	1873.8
82.5°	84.5	88.7	88.7	97.2	123.7	168.0	214.3	790.6	804.7	846.3	1324.4
85°	68.0	71.3	71.3	75.5	95.8	125.5	147.3	396.9	392.7	448.4	1147.4
87.5°	48.6	51.0	53.3	54.3	68.4	83.1	88.7	120.8	79.8	91.6	736.8
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8	2900.8
2.5°	3332.2	3359.1	3331.7	3311.9	3226.5	3156.2	3062.2	3014.1
5°	3581.9	3650.3	3627.2	3544.1	3365.7	3165.1	2937.2	2834.3
7.5°	3551.7	3710.7	3714.5	3559.2	3296.3	3000.9	2692.2	2545.9
10°	3316.6	3520.1	3578.1	3427.5	3148.6	2818.2	2464.2	2297.1
12.5°	3054.2	3253.4	3297.8	3245.8	3012.7	2680.9	2321.7	2157.9
15°	2839.5	2928.7	2981.5	3026.8	2896.1	2626.1	2313.7	2133.8
17.5°	2708.7	2698.8	2713.9	2792.7	2814.9	2688.9	2436.4	2238.1
20°	2661.5	2510.0	2506.2	2614.8	2776.7	2838.5	2676.1	2438.3
22.5°	2687.5	2442.0	2410.9	2539.7	2797.0	3054.2	2990.5	2719.1
25°	2777.2	2447.7	2422.7	2547.3	2870.6	3284.1	3329.8	3082.5
27.5°	2918.3	2483.6	2450.5	2578.4	2968.3	3477.1	3664.0	3434.6
30°	3052.3	2545.9	2504.8	2639.8	3057.5	3553.6	3868.9	3709.3
32.5°	3215.2	2662.5	2590.2	2752.6	3168.0	3675.3	4051.5	3936.8
35°	3374.7	2828.6	2738.9	2926.8	3291.1	3826.8	4260.1	4227.6
37.5°	3549.8	3045.7	2971.6	3151.9	3459.6	3969.9	4526.3	4568.3
40°	3736.7	3333.6	3245.8	3480.4	3721.1	4149.2	4804.3	4905.3
42.5°	3925.0	3653.2	3548.4	3786.3	4008.6	4326.2	5042.2	5191.8
45°	4140.7	4000.1	3950.5	4207.7	4284.7	4494.7	5217.8	5403.7
47.5°	4391.8	4393.7	4473.5	4576.4	4563.1	4685.4	5394.3	5593.0
50°	4684.9	4885.0	5061.1	5129.5	4850.1	4890.2	5639.3	5846.5
52.5°	5037.0	5472.7	5690.7	5645.9	5159.3	5140.4	6027.2	6195.7
55°	5477.4	6094.7	6311.4	6279.3	5514.7	5481.1	6510.5	6608.7
57.5°	5987.1	6697.5	6896.6	6752.2	5941.3	5855.0	6910.3	6931.1
60°	6435.0	7175.1	7349.7	7189.7	6371.8	6252.8	7160.0	7059.5
62.5°	6684.2	7337.0	7459.7	7287.4	6666.8	6676.7	7214.7	6990.1
65°	6572.8	6927.8	6967.4	6953.3	6590.8	6922.6	7017.9	6669.6
67.5°	5963.0	5893.2	5959.7	6051.8	5939.4	6598.8	6472.8	5971.5
70°	4888.8	4505.1	4637.7	4699.5	4750.5	5678.4	5618.0	4863.8
72.5°	3684.3	3156.2	3260.9	3248.2	3484.2	4554.6	4369.2	3576.2
75°	2610.5	2140.0	2153.2	2148.0	2431.2	3563.5	3163.7	2446.8
77.5°	1826.6	1550.5	1557.5	1586.8	1634.5	2687.5	2260.3	1787.4
80°	1255.9	1176.7	1215.8	1218.2	1132.8	1805.3	1669.9	1434.4
82.5°	935.5	817.9	808.5	822.2	887.8	1462.7	1283.3	994.9
85°	766.0	484.3	389.4	488.0	786.8	1448.5	852.4	524.8
87.5°	431.4	229.9	103.8	192.6	313.9	959.1	246.4	67.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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