

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: P191320

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191320
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 8846.5 lumens
Efficiency: N/A
Efficacy: 104.1 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

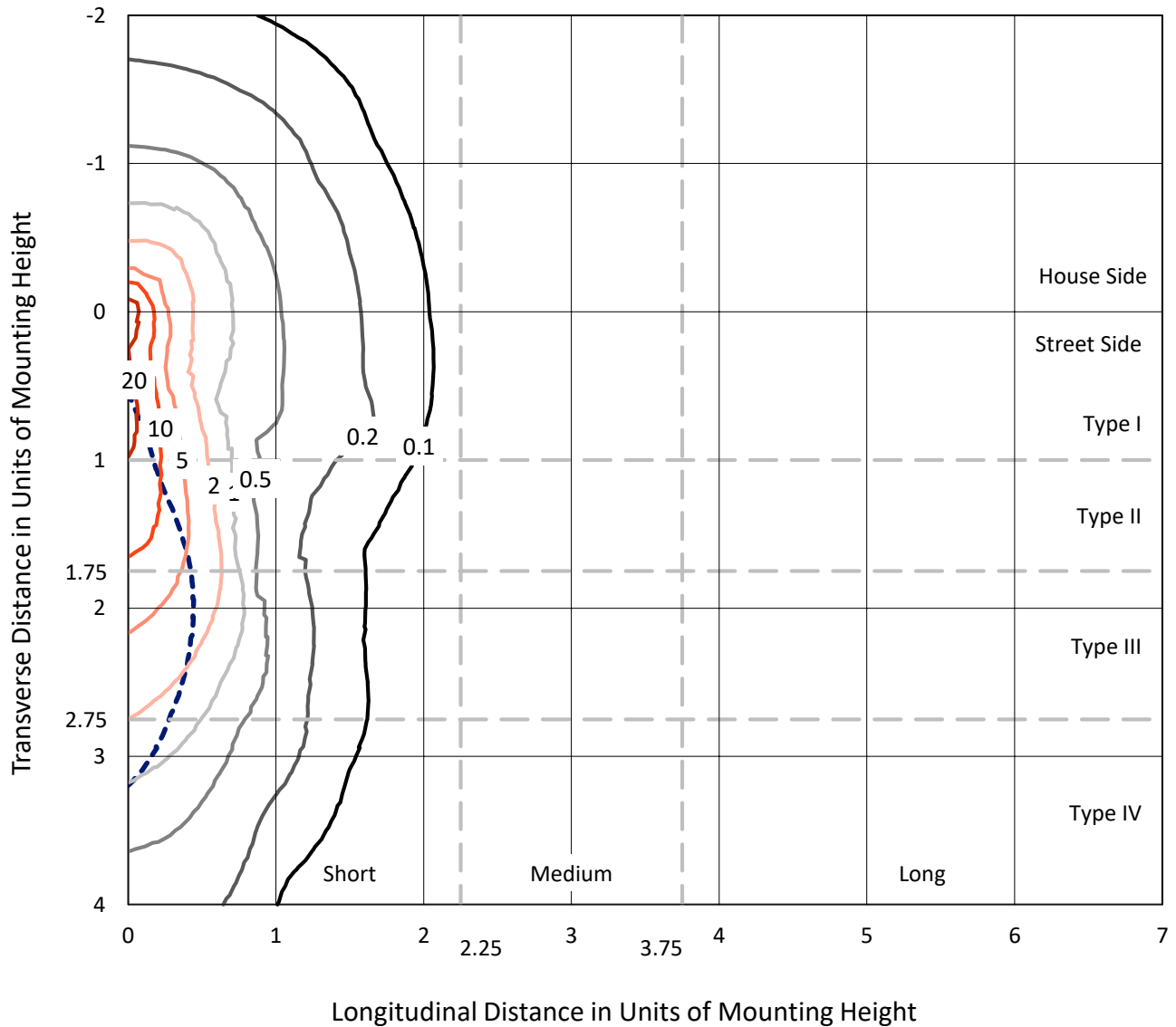
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

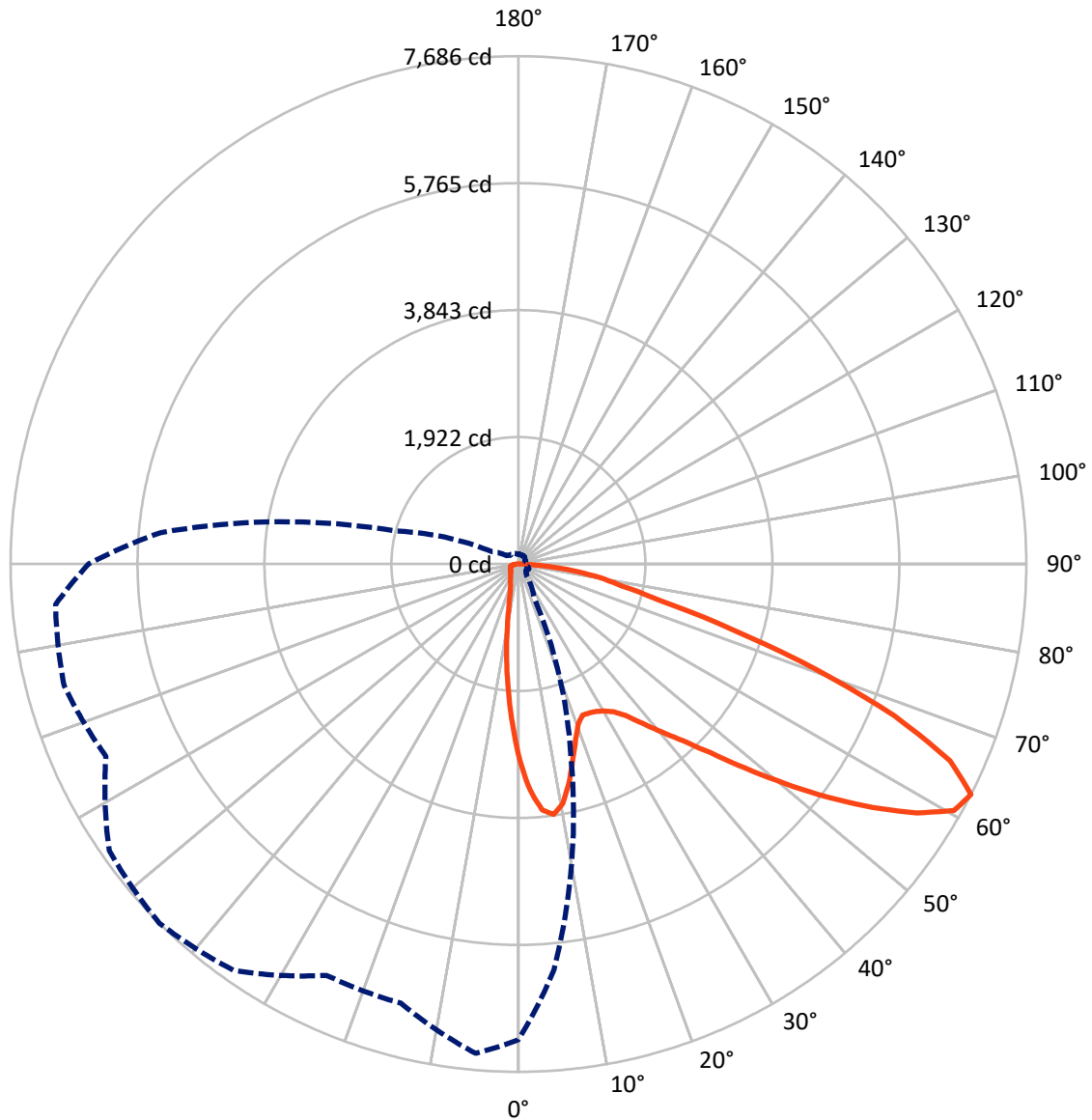


Based on 10 foot mounting height. Maximum calculated value = 29.9 fc
 Type IV - Short - Non-Cutoff

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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	1464.0	0.0	1464.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7382.5	0.0	7382.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	8846.5	0.0	8846.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	2.5
10°-20°	399.0	4.5
20°-30°	581.7	6.6
30°-40°	895.9	10.1
40°-50°	1318.5	14.9
50°-60°	1934.0	21.9
60°-70°	2161.9	24.4
70°-80°	1058.5	12.0
80°-90°	279.5	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°	8846.5	100.0
0°-180°	8846.5	100.0



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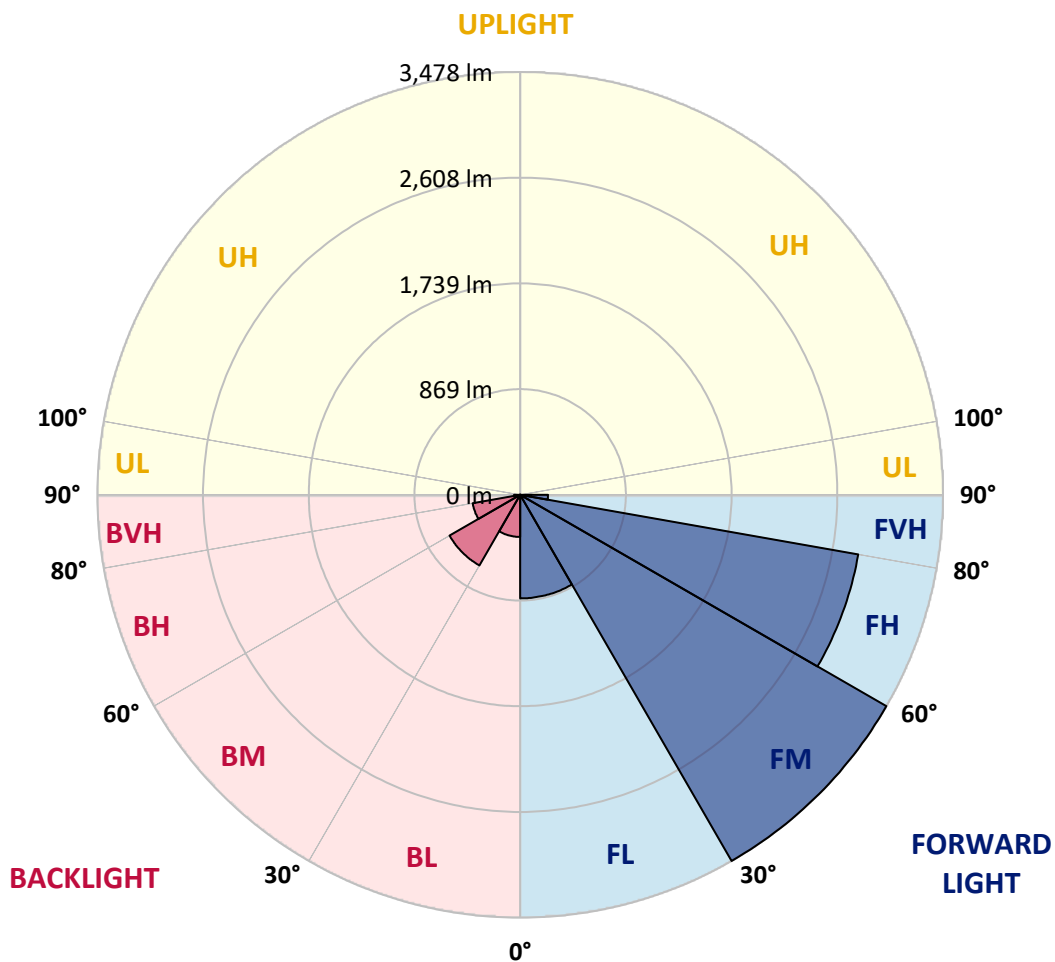
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.9	9.6			
FM	(30°-60°)	3477.6	39.3			
FH	(60°-80°)	2823.5	31.9			G2/5000
FVH	(80°-90°)	229.5	2.6			G3/500
BL	(0°-30°)	346.4	3.9	B1/500		
BM	(30°-60°)	670.8	7.6	B1/1000		
BH	(60°-80°)	396.9	4.5	B1/500		G1/500
BVH	(80°-90°)	50.0	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°	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9
2.5°	3105.6	3042.4	2937.3	2827.8	2761.3	2683.4	2622.6	2569.1	2462.1	2441.3	2460.2
5°	2920.2	2793.4	2595.4	2396.1	2263.3	2120.8	2009.9	1920.9	1785.3	1761.4	1790.1
7.5°	2623.2	2471.3	2209.8	1955.5	1767.8	1589.8	1470.1	1374.7	1268.8	1223.0	1226.0
10°	2366.8	2195.7	1886.3	1609.6	1456.0	1335.9	1235.2	1137.4	1030.0	959.4	940.0
12.5°	2223.4	2026.5	1670.0	1422.9	1280.4	1154.0	1045.6	941.0	826.2	754.2	733.9
15°	2198.5	1984.6	1588.7	1303.3	1124.8	964.8	836.9	720.3	602.0	543.7	531.5
17.5°	2306.0	2059.5	1562.5	1196.8	978.5	781.0	623.9	493.6	397.3	368.2	365.7
20°	2512.3	2203.4	1559.1	1096.6	834.0	602.5	434.8	339.9	297.6	289.4	289.8
22.5°	2801.6	2426.6	1600.9	1021.2	701.2	449.4	326.8	284.5	267.9	260.1	260.1
25°	3176.1	2734.0	1697.2	966.3	585.9	358.9	288.4	263.1	247.6	242.1	243.2
27.5°	3538.8	3033.0	1809.1	923.0	510.7	325.8	273.3	250.4	236.8	231.5	233.9
30°	3821.8	3298.6	1902.4	864.2	472.2	316.6	278.7	255.3	235.9	227.6	228.1
32.5°	4056.2	3531.0	1980.7	821.8	438.1	271.4	240.2	230.1	227.6	217.9	213.0
35°	4355.8	3784.4	2033.2	822.9	422.1	242.1	214.0	196.0	182.8	171.7	171.7
37.5°	4706.9	4075.2	2089.2	834.0	416.2	225.2	204.7	186.8	174.6	163.9	161.9
40°	5054.2	4360.2	2140.2	844.8	412.9	214.9	197.4	180.9	169.7	159.1	156.1
42.5°	5349.3	4594.6	2185.9	850.1	401.2	214.0	192.1	177.0	166.3	154.7	151.7
45°	5567.7	4791.1	2235.0	858.4	389.5	217.9	192.1	176.6	163.4	152.2	149.2
47.5°	5762.7	5021.6	2317.2	858.4	375.4	210.5	198.5	177.0	163.0	151.2	148.8
50°	6023.9	5337.7	2472.9	838.4	355.5	202.7	209.1	175.0	158.6	149.2	146.4
52.5°	6383.7	5742.7	2719.9	803.8	324.9	187.7	207.7	174.1	154.2	144.4	141.1
55°	6809.2	6176.6	2989.3	763.5	279.2	177.0	200.4	171.7	149.2	138.6	135.2
57.5°	7141.3	6475.1	3178.9	701.2	239.3	171.1	177.5	169.2	143.4	132.3	129.4
60°	7273.6	6463.4	3231.0	618.1	219.8	166.3	155.2	189.7	138.6	127.5	124.0
62.5°	7202.2	6164.8	3085.1	559.8	215.4	160.0	145.4	175.5	134.7	124.0	119.2
65°	6872.0	5635.7	2698.5	544.2	228.1	153.6	139.1	137.6	129.4	119.2	114.3
67.5°	6152.7	4845.0	2160.7	545.6	244.1	147.3	132.8	125.9	122.0	113.8	109.5
70°	5011.3	3830.6	1610.6	549.5	252.4	140.0	125.9	118.7	114.3	106.0	103.1
72.5°	3684.7	2952.3	1170.1	524.3	253.9	131.8	116.7	110.4	106.0	97.3	94.8
75°	2521.0	2258.4	811.6	434.2	221.3	120.1	106.5	100.7	97.8	87.1	85.6
77.5°	1841.6	1695.2	519.4	322.4	170.7	105.6	93.9	89.5	87.6	75.9	74.0
80°	1477.9	1341.2	324.9	220.8	125.0	88.5	78.8	76.3	74.4	62.7	61.3
82.5°	1025.1	898.2	208.6	143.4	93.9	68.5	62.3	61.3	58.3	47.7	46.2
85°	540.7	487.7	132.3	97.8	68.1	47.2	43.3	43.3	41.8	31.6	30.6
87.5°	69.0	112.3	67.1	51.0	37.4	20.9	20.9	20.5	21.9	18.0	15.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9
2.5°	2415.5	2438.8	2416.4	2417.8	2442.7	2516.7	2550.2	2577.9	2607.6	2627.0	2635.7
5°	1750.7	1805.2	1823.6	1862.6	1919.9	2014.3	2051.7	2078.9	2096.9	2107.6	2112.0
7.5°	1197.3	1230.3	1267.3	1330.0	1455.0	1510.5	1535.2	1528.9	1508.5	1501.2	1493.9
10°	902.5	889.5	882.6	917.2	1018.3	1074.2	1091.8	1074.7	1063.6	1066.0	1078.1
12.5°	699.3	676.5	648.8	644.9	711.5	761.6	772.7	773.7	794.1	812.1	838.9
15°	509.6	507.2	493.6	485.3	523.2	564.2	569.0	577.8	596.2	609.4	632.7
17.5°	359.4	372.6	383.2	388.5	417.3	446.4	441.1	436.7	433.3	433.3	444.5
20°	289.8	298.6	312.2	327.8	356.9	377.4	364.3	346.8	334.1	330.2	331.6
22.5°	261.2	267.9	275.7	289.4	315.6	329.7	315.6	303.0	290.3	285.9	284.5
25°	246.5	255.3	262.6	272.8	292.3	302.0	288.4	279.2	271.4	266.0	262.1
27.5°	238.2	246.0	248.1	252.9	269.4	278.1	271.4	267.5	262.6	257.8	252.9
30°	229.6	228.1	224.6	225.2	238.2	247.0	246.5	247.6	247.0	245.6	244.6
32.5°	209.6	206.6	203.8	206.6	218.8	226.6	227.1	229.0	229.0	228.5	232.4
35°	174.6	179.9	183.3	192.1	206.6	213.5	210.5	205.7	196.9	191.6	191.1
37.5°	161.4	162.4	168.3	180.4	196.5	202.7	198.5	187.2	181.4	180.4	181.9
40°	155.2	156.1	159.5	170.7	186.8	193.0	189.1	180.9	175.5	175.0	177.5
42.5°	150.8	151.7	153.6	161.4	174.6	182.4	182.8	177.0	170.7	171.1	173.6
45°	148.3	148.8	148.3	152.2	164.4	173.6	177.5	173.6	168.3	169.2	172.2
47.5°	147.8	146.4	144.4	145.4	158.0	167.3	172.2	170.7	168.3	169.2	171.7
50°	145.9	142.5	140.0	139.5	152.2	161.9	166.3	166.3	167.3	169.2	171.7
52.5°	140.0	136.2	136.2	134.7	148.3	157.5	160.5	161.0	162.4	165.8	169.2
55°	132.8	131.3	132.8	130.3	145.4	154.2	155.6	156.6	157.5	160.5	165.3
57.5°	126.4	124.5	127.9	126.9	143.0	150.8	150.8	152.7	152.7	156.6	160.5
60°	123.1	119.2	120.6	121.5	139.5	147.8	146.9	148.8	149.8	153.1	156.1
62.5°	118.7	115.3	115.3	117.6	135.6	143.4	143.0	144.4	148.3	149.2	152.2
65°	113.3	111.8	110.4	113.3	131.8	138.6	139.1	141.1	144.4	145.4	147.8
67.5°	107.9	108.4	105.6	108.4	128.4	133.7	133.7	137.6	139.1	141.1	143.4
70°	102.1	102.6	100.1	103.6	125.9	128.4	127.9	133.3	134.2	135.6	138.1
72.5°	94.8	94.8	93.9	98.7	122.0	123.1	122.0	126.4	126.9	128.4	129.4
75°	87.1	87.1	86.0	92.9	119.6	117.2	114.3	117.6	118.7	119.6	119.6
77.5°	76.8	77.8	77.8	86.0	111.4	114.8	105.1	107.0	108.4	108.9	107.5
80°	64.2	66.6	67.6	78.3	93.4	106.0	93.9	95.3	95.9	95.9	93.9
82.5°	49.1	53.5	56.0	67.6	71.5	89.0	81.7	83.2	81.7	78.8	77.8
85°	34.1	39.9	42.8	51.6	54.0	68.5	68.1	68.1	65.2	61.3	60.8
87.5°	18.5	21.9	23.8	30.6	36.9	46.2	50.1	48.6	46.2	43.8	44.3
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°	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9
2.5°	2681.5	2747.6	2853.1	2933.8	3015.0	3093.4	3178.0	3242.7	3297.6	3319.1	3384.2
5°	2156.3	2238.9	2338.7	2518.6	2646.0	2786.5	2949.0	3163.9	3246.5	3360.8	3548.1
7.5°	1524.6	1599.5	1759.9	1905.3	2085.8	2284.7	2504.0	2800.6	2909.1	3092.4	3397.3
10°	1138.4	1225.5	1354.4	1476.9	1635.9	1839.2	2091.1	2422.8	2554.5	2753.5	3104.6
12.5°	917.2	1019.8	1156.4	1271.7	1394.7	1538.2	1782.8	2146.6	2323.0	2497.1	2852.2
15°	704.6	812.1	939.1	1085.5	1221.1	1375.8	1632.0	2029.8	2233.1	2414.5	2717.5
17.5°	487.7	579.7	739.7	892.3	1066.0	1263.9	1590.2	2054.6	2297.3	2506.4	2740.8
20°	345.8	398.2	529.6	706.6	923.0	1171.5	1582.4	2184.9	2500.6	2739.4	2890.6
22.5°	290.8	310.3	386.6	549.0	799.0	1102.4	1609.6	2367.8	2774.9	3079.8	3129.3
25°	265.0	276.7	316.6	430.9	688.7	1052.3	1701.6	2640.1	3114.3	3420.1	3411.4
27.5°	250.9	263.1	289.4	363.8	605.5	1021.2	1793.4	2963.1	3502.4	3789.7	3680.8
30°	246.5	263.1	290.8	342.9	546.2	972.1	1868.8	3246.5	3801.0	4039.2	3803.3
32.5°	243.2	245.6	258.2	295.6	489.7	914.7	1919.9	3500.8	4093.2	4276.5	3979.9
35°	196.5	208.6	229.0	265.0	456.6	880.2	1919.9	3720.3	4381.1	4516.3	4148.2
37.5°	189.1	199.9	217.9	248.5	438.1	863.2	1881.5	3931.7	4675.3	4788.1	4286.8
40°	185.3	194.1	211.0	235.9	430.4	843.7	1825.6	4118.5	4962.7	5060.4	4416.1
42.5°	182.4	190.2	206.2	228.1	420.1	822.4	1780.3	4268.3	5212.2	5293.0	4539.7
45°	180.9	189.1	206.6	232.0	399.8	794.1	1765.3	4430.2	5417.4	5486.9	4673.4
47.5°	180.9	190.7	209.1	240.2	375.4	765.0	1812.5	4643.7	5611.5	5645.5	4830.9
50°	179.4	190.2	215.9	232.0	339.9	728.0	1923.4	4912.6	5821.5	5825.4	5030.4
52.5°	176.6	189.1	232.4	227.1	299.1	679.3	2073.1	5257.9	6132.3	6155.6	5342.6
55°	173.1	187.7	228.1	215.9	265.6	621.5	2195.7	5677.6	6569.0	6633.6	5801.6
57.5°	168.8	185.8	220.8	200.4	243.7	547.1	2240.0	5985.0	6873.9	7036.3	6319.0
60°	164.9	184.3	199.4	191.1	230.1	484.4	2154.3	5924.1	6853.0	7203.1	6777.6
62.5°	161.0	185.8	181.9	185.3	223.7	444.0	1930.6	5437.4	6506.3	7030.9	7117.5
65°	156.6	172.7	171.7	180.4	222.3	427.9	1600.4	4707.4	5836.1	6486.8	7197.8
67.5°	150.8	159.5	164.4	174.1	227.1	413.9	1291.6	3883.1	4904.8	5671.2	6779.5
70°	144.4	151.7	157.1	166.3	224.2	407.5	1074.2	3062.2	3891.9	4648.1	5954.3
72.5°	136.2	142.5	147.3	156.1	221.3	404.2	907.5	2466.0	2905.7	3452.8	4841.1
75°	126.4	132.3	135.6	144.4	212.1	370.1	713.4	2086.7	2174.3	2401.9	3855.9
77.5°	115.3	119.6	122.5	132.3	187.7	307.8	516.0	1609.6	1688.5	1743.9	2956.2
80°	102.1	106.5	107.9	117.2	155.6	240.7	336.6	1189.0	1262.9	1275.6	1930.6
82.5°	87.1	91.5	91.5	100.1	127.5	173.1	220.8	814.6	829.1	872.0	1364.6
85°	70.1	73.4	73.4	77.8	98.7	129.4	151.7	409.0	404.6	462.0	1182.2
87.5°	50.1	52.5	54.9	56.0	70.5	85.6	91.5	124.5	82.1	94.3	759.1
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9	2988.9
2.5°	3433.3	3461.1	3432.8	3412.4	3324.4	3251.9	3155.1	3105.6
5°	3690.6	3761.1	3737.2	3651.6	3467.8	3261.2	3026.3	2920.2
7.5°	3659.4	3823.3	3827.2	3667.2	3396.3	3091.9	2773.8	2623.2
10°	3417.3	3626.9	3686.6	3531.5	3244.1	2903.7	2539.0	2366.8
12.5°	3146.9	3352.1	3397.8	3344.3	3104.0	2762.2	2392.2	2223.4
15°	2925.6	3017.5	3072.0	3118.7	2983.9	2705.8	2383.9	2198.5
17.5°	2790.9	2780.7	2796.2	2877.5	2900.3	2770.5	2510.3	2306.0
20°	2742.2	2586.1	2582.2	2694.1	2860.9	2924.6	2757.4	2512.3
22.5°	2769.0	2516.2	2484.0	2616.8	2881.9	3146.9	3081.2	2801.6
25°	2861.4	2522.0	2496.2	2624.6	2957.7	3383.7	3430.9	3176.1
27.5°	3006.8	2558.9	2524.8	2656.7	3058.3	3582.6	3775.2	3538.8
30°	3145.0	2623.2	2580.8	2719.9	3150.3	3661.3	3986.2	3821.8
32.5°	3312.7	2743.2	2668.9	2836.1	3264.0	3786.9	4174.5	4056.2
35°	3477.1	2914.4	2822.0	3015.6	3391.0	3943.0	4389.4	4355.8
37.5°	3657.5	3138.1	3061.8	3247.6	3564.6	4090.3	4663.6	4706.9
40°	3850.1	3434.8	3344.3	3586.0	3834.0	4275.1	4950.1	5054.2
42.5°	4044.1	3763.9	3656.0	3901.1	4130.2	4457.4	5195.2	5349.3
45°	4266.3	4121.4	4070.3	4335.4	4414.6	4631.1	5376.1	5567.7
47.5°	4525.0	4527.0	4609.2	4715.2	4701.6	4827.5	5558.0	5762.7
50°	4827.0	5033.2	5214.6	5285.2	4997.2	5038.5	5810.4	6023.9
52.5°	5189.8	5638.7	5863.3	5817.1	5315.8	5296.3	6210.1	6383.7
55°	5643.5	6279.6	6502.8	6469.8	5682.0	5647.4	6708.1	6809.2
57.5°	6168.7	6900.6	7105.8	6957.1	6121.5	6032.5	7119.9	7141.3
60°	6630.3	7392.8	7572.7	7407.8	6565.1	6442.5	7377.2	7273.6
62.5°	6887.0	7559.6	7686.0	7508.6	6869.0	6879.2	7433.6	7202.2
65°	6772.2	7137.9	7178.8	7164.2	6790.8	7132.6	7230.8	6872.0
67.5°	6143.9	6071.9	6140.6	6235.4	6119.6	6799.0	6669.1	6152.7
70°	5037.1	4641.7	4778.4	4842.1	4894.6	5850.7	5788.5	5011.3
72.5°	3796.1	3251.9	3359.9	3346.7	3589.8	4692.8	4501.7	3684.7
75°	2689.7	2204.9	2218.5	2213.2	2504.9	3671.6	3259.7	2521.0
77.5°	1882.0	1597.5	1604.8	1635.0	1684.1	2769.0	2329.0	1841.6
80°	1294.0	1212.4	1252.7	1255.2	1167.1	1860.1	1720.5	1477.9
82.5°	963.8	842.8	833.0	847.1	914.7	1507.0	1322.3	1025.1
85°	789.3	499.0	401.2	502.9	810.7	1492.5	878.3	540.7
87.5°	444.5	236.8	107.0	198.5	323.4	988.2	253.9	69.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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