

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: P192120

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192120
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 8648 lumens
Efficiency: N/A
Efficacy: 101.7 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 - G2

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

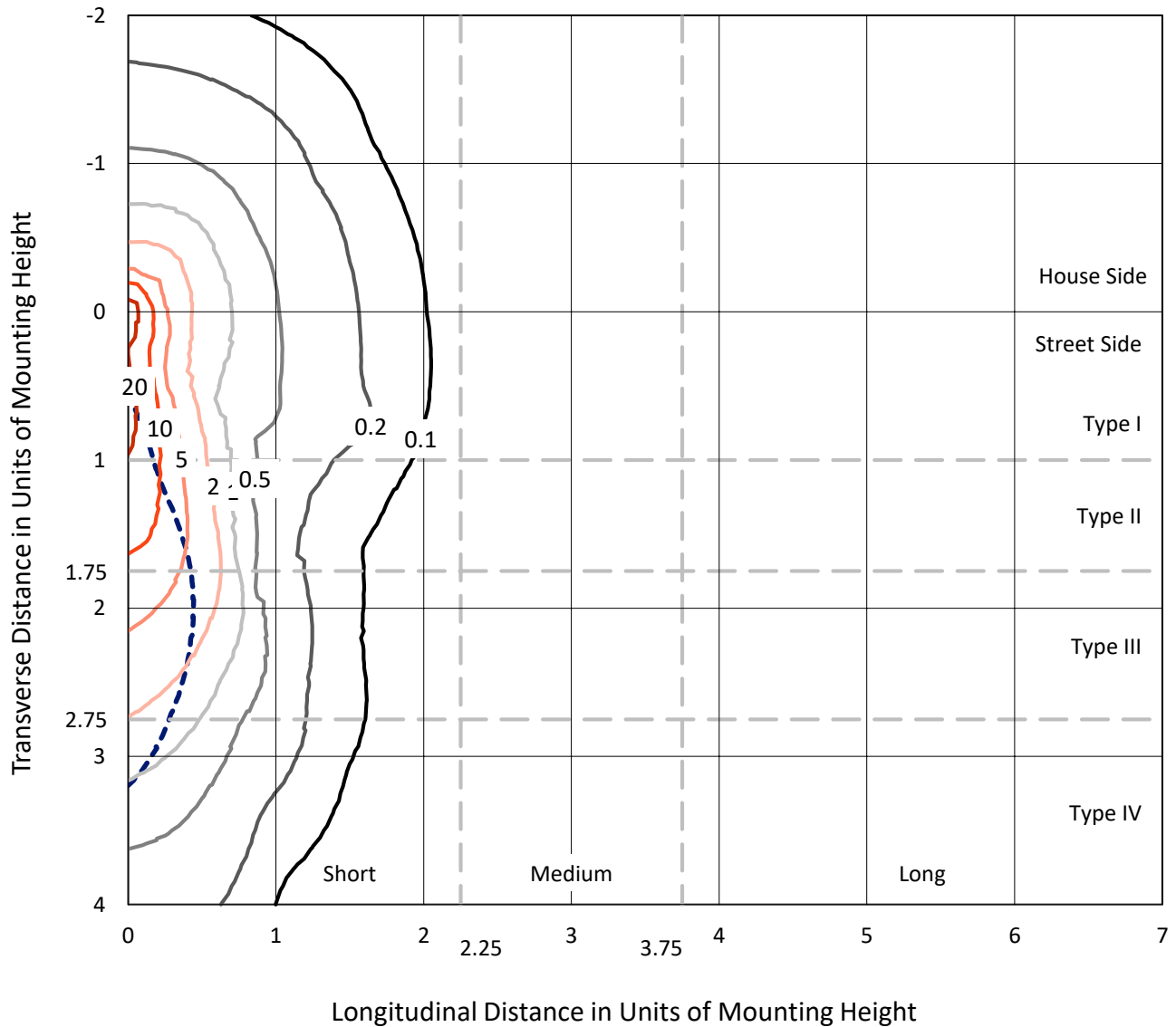


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Iso-Footcandle Lines of Horizontal Illumination

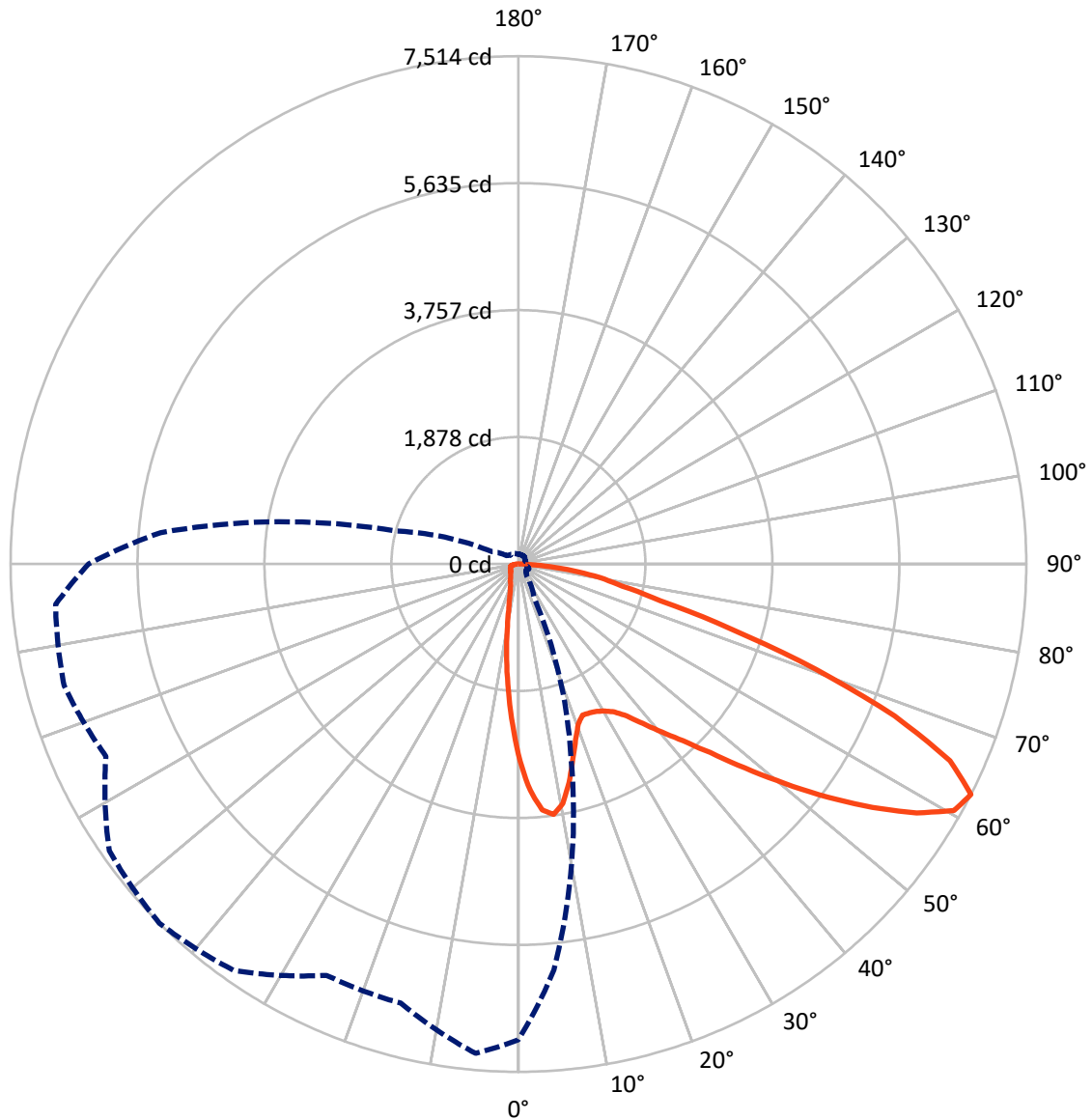
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.2 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	1431.1	0.0	1431.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7216.9	0.0	7216.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	8648.0	0.0	8648.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	2.5
10°-20°	390.0	4.5
20°-30°	568.6	6.6
30°-40°	875.8	10.1
40°-50°	1288.9	14.9
50°-60°	1890.6	21.9
60°-70°	2113.4	24.4
70°-80°	1034.7	12.0
80°-90°	273.2	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°	8648.0	100.0
0°-180°	8648.0	100.0



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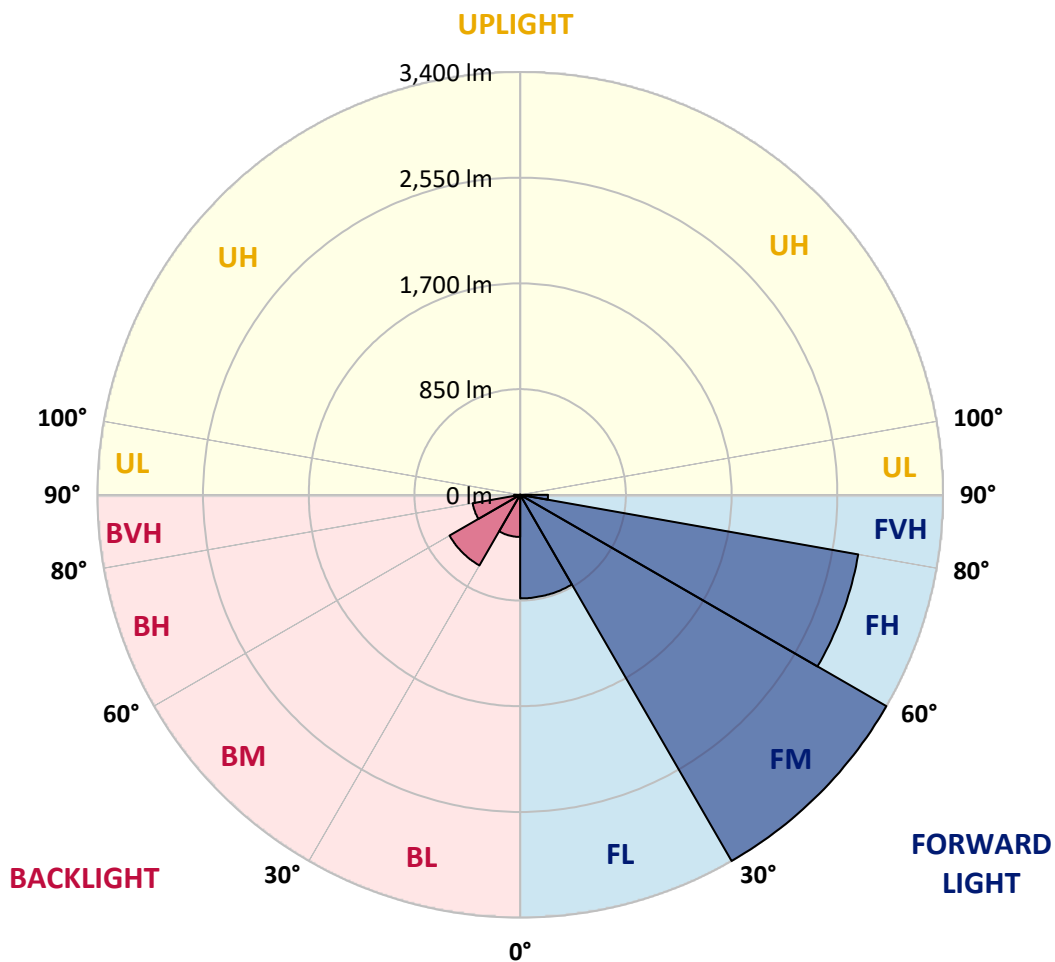
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.8	9.6			
FM (30°-60°)	3399.6	39.3			
FH (60°-80°)	2760.1	31.9			G2/5000
FVH (80°-90°)	224.4	2.6			G2/225
BL (0°-30°)	338.6	3.9	B1/500		
BM (30°-60°)	655.7	7.6	B1/1000		
BH (60°-80°)	388.0	4.5	B1/500		G1/500
BVH (80°-90°)	48.8	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8
2.5°	3035.9	2974.1	2871.4	2764.4	2699.3	2623.2	2563.8	2511.5	2406.9	2386.5	2405.0
5°	2854.7	2730.7	2537.2	2342.3	2212.5	2073.2	1964.8	1877.8	1745.2	1721.9	1749.9
7.5°	2564.3	2415.9	2160.2	1911.6	1728.1	1554.1	1437.1	1343.9	1240.3	1195.6	1198.5
10°	2313.7	2146.4	1844.0	1573.5	1423.3	1305.9	1207.5	1111.9	1006.9	937.9	918.9
12.5°	2173.5	1981.0	1632.5	1391.0	1251.7	1128.1	1022.1	919.9	807.7	737.3	717.4
15°	2149.2	1940.1	1553.1	1274.1	1099.6	943.2	818.1	704.1	588.5	531.5	519.6
17.5°	2254.3	2013.3	1527.4	1169.9	956.5	763.5	609.9	482.5	388.4	359.9	357.5
20°	2455.9	2154.0	1524.1	1072.0	815.3	589.0	425.0	332.3	290.9	282.9	283.3
22.5°	2738.7	2372.2	1565.0	998.3	685.5	439.3	319.5	278.1	261.9	254.3	254.3
25°	3104.8	2672.7	1659.1	944.6	572.8	350.8	281.9	257.2	242.0	236.7	237.7
27.5°	3459.4	2965.0	1768.5	902.3	499.2	318.5	267.2	244.8	231.5	226.3	228.7
30°	3736.1	3224.6	1859.7	844.8	461.6	309.5	272.4	249.6	230.6	222.5	223.0
32.5°	3965.2	3451.8	1936.3	803.4	428.3	265.3	234.8	224.9	222.5	213.0	208.2
35°	4258.1	3699.5	1987.6	804.4	412.6	236.7	209.2	191.6	178.7	167.8	167.8
37.5°	4601.3	3983.8	2042.3	815.3	406.9	220.1	200.1	182.6	170.7	160.2	158.3
40°	4940.8	4262.4	2092.2	825.8	403.6	210.1	193.0	176.8	165.9	155.5	152.6
42.5°	5229.3	4491.5	2136.9	831.0	392.2	209.2	187.8	173.0	162.6	151.2	148.3
45°	5442.8	4683.6	2184.9	839.1	380.8	213.0	187.8	172.6	159.7	148.8	145.9
47.5°	5633.4	4908.9	2265.2	839.1	367.0	205.8	194.0	173.0	159.3	147.8	145.5
50°	5888.7	5217.9	2417.4	819.6	347.5	198.2	204.4	171.1	155.0	145.9	143.1
52.5°	6240.5	5613.9	2658.9	785.8	317.6	183.5	203.0	170.2	150.7	141.2	137.9
55°	6656.4	6038.0	2922.2	746.4	272.9	173.0	195.9	167.8	145.9	135.5	132.2
57.5°	6981.1	6329.8	3107.6	685.5	233.9	167.3	173.5	165.4	140.2	129.3	126.5
60°	7110.4	6318.4	3158.5	604.2	214.9	162.6	151.7	185.4	135.5	124.6	121.2
62.5°	7040.6	6026.5	3015.9	547.2	210.6	156.4	142.1	171.6	131.7	121.2	116.5
65°	6717.8	5509.3	2638.0	532.0	223.0	150.2	136.0	134.5	126.5	116.5	111.7
67.5°	6014.7	4736.3	2112.2	533.4	238.6	144.0	129.8	123.1	119.3	111.2	107.0
70°	4898.9	3744.7	1574.5	537.2	246.7	136.9	123.1	116.0	111.7	103.6	100.8
72.5°	3602.0	2886.1	1143.8	512.5	248.2	128.8	114.1	107.9	103.6	95.1	92.7
75°	2464.4	2207.7	793.4	424.5	216.3	117.4	104.1	98.4	95.6	85.1	83.7
77.5°	1800.3	1657.2	507.7	315.2	166.9	103.2	91.8	87.5	85.6	74.2	72.3
80°	1444.7	1311.1	317.6	215.8	122.2	86.5	77.0	74.6	72.7	61.3	59.9
82.5°	1002.1	878.0	203.9	140.2	91.8	67.0	60.9	59.9	57.0	46.6	45.2
85°	528.6	476.8	129.3	95.6	66.6	46.1	42.3	42.3	40.9	30.9	29.9
87.5°	67.5	109.8	65.6	49.9	36.6	20.4	20.4	20.0	21.4	17.6	15.2
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°	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8
2.5°	2361.3	2384.1	2362.2	2363.6	2387.9	2460.2	2493.0	2520.1	2549.1	2568.1	2576.6
5°	1711.4	1764.7	1782.7	1820.8	1876.8	1969.1	2005.7	2032.3	2049.9	2060.3	2064.6
7.5°	1170.4	1202.7	1238.9	1300.2	1422.4	1476.6	1500.8	1494.6	1474.7	1467.5	1460.4
10°	882.3	869.5	862.8	896.6	995.5	1050.1	1067.3	1050.6	1039.7	1042.1	1053.9
12.5°	683.6	661.3	634.2	630.4	695.5	744.5	755.4	756.3	776.3	793.9	820.1
15°	498.2	495.8	482.5	474.4	511.5	551.5	556.2	564.8	582.8	595.7	618.5
17.5°	351.3	364.2	374.6	379.8	407.9	436.4	431.2	426.9	423.6	423.6	434.5
20°	283.3	291.9	305.2	320.4	348.9	368.9	356.1	339.0	326.6	322.8	324.2
22.5°	255.3	261.9	269.5	282.9	308.5	322.3	308.5	296.2	283.8	279.5	278.1
25°	241.0	249.6	256.7	266.7	285.7	295.2	281.9	272.9	265.3	260.0	256.2
27.5°	232.9	240.5	242.5	247.2	263.4	271.9	265.3	261.5	256.7	252.0	247.2
30°	224.4	223.0	219.6	220.1	232.9	241.5	241.0	242.0	241.5	240.1	239.1
32.5°	204.9	202.0	199.2	202.0	213.9	221.5	222.0	223.9	223.9	223.4	227.2
35°	170.7	175.9	179.2	187.8	202.0	208.7	205.8	201.1	192.5	187.3	186.8
37.5°	157.8	158.8	164.5	176.4	192.1	198.2	194.0	183.0	177.3	176.4	177.8
40°	151.7	152.6	155.9	166.9	182.6	188.7	184.9	176.8	171.6	171.1	173.5
42.5°	147.4	148.3	150.2	157.8	170.7	178.3	178.7	173.0	166.9	167.3	169.7
45°	145.0	145.5	145.0	148.8	160.7	169.7	173.5	169.7	164.5	165.4	168.3
47.5°	144.5	143.1	141.2	142.1	154.5	163.5	168.3	166.9	164.5	165.4	167.8
50°	142.6	139.3	136.9	136.4	148.8	158.3	162.6	162.6	163.5	165.4	167.8
52.5°	136.9	133.1	133.1	131.7	145.0	154.0	156.9	157.4	158.8	162.1	165.4
55°	129.8	128.4	129.8	127.4	142.1	150.7	152.1	153.1	154.0	156.9	161.6
57.5°	123.6	121.7	125.0	124.1	139.8	147.4	147.4	149.3	149.3	153.1	156.9
60°	120.3	116.5	117.9	118.8	136.4	144.5	143.6	145.5	146.4	149.7	152.6
62.5°	116.0	112.7	112.7	115.0	132.6	140.2	139.8	141.2	145.0	145.9	148.8
65°	110.8	109.3	107.9	110.8	128.8	135.5	136.0	137.9	141.2	142.1	144.5
67.5°	105.5	106.0	103.2	106.0	125.5	130.7	130.7	134.5	136.0	137.9	140.2
70°	99.8	100.3	97.9	101.3	123.1	125.5	125.0	130.3	131.2	132.6	135.0
72.5°	92.7	92.7	91.8	96.5	119.3	120.3	119.3	123.6	124.1	125.5	126.5
75°	85.1	85.1	84.1	90.8	116.9	114.6	111.7	115.0	116.0	116.9	116.9
77.5°	75.1	76.1	76.1	84.1	108.9	112.2	102.7	104.6	106.0	106.5	105.1
80°	62.8	65.1	66.1	76.5	91.3	103.6	91.8	93.2	93.7	93.7	91.8
82.5°	48.0	52.3	54.7	66.1	69.9	87.0	79.9	81.3	79.9	77.0	76.1
85°	33.3	39.0	41.8	50.4	52.8	67.0	66.6	66.6	63.7	59.9	59.4
87.5°	18.1	21.4	23.3	29.9	36.1	45.2	49.0	47.5	45.2	42.8	43.3
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°	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8
2.5°	2621.3	2686.0	2789.1	2868.0	2947.4	3024.0	3106.7	3169.9	3223.6	3244.6	3308.3
5°	2107.9	2188.7	2286.2	2462.1	2586.6	2724.0	2882.8	3092.9	3173.7	3285.4	3468.5
7.5°	1490.4	1563.6	1720.4	1862.6	2039.0	2233.4	2447.8	2737.8	2843.8	3023.0	3321.1
10°	1112.9	1198.0	1324.0	1443.8	1599.2	1797.9	2044.2	2368.4	2497.2	2691.7	3034.9
12.5°	896.6	996.9	1130.5	1243.2	1363.4	1503.7	1742.8	2098.4	2270.9	2441.1	2788.2
15°	688.8	793.9	918.0	1061.1	1193.7	1344.9	1595.4	1984.3	2183.0	2360.3	2656.5
17.5°	476.8	566.7	723.1	872.3	1042.1	1235.5	1554.5	2008.5	2245.8	2450.2	2679.3
20°	338.0	389.3	517.7	690.7	902.3	1145.2	1546.9	2135.9	2444.5	2677.9	2825.7
22.5°	284.3	303.3	377.9	536.7	781.1	1077.7	1573.5	2314.7	2712.6	3010.7	3059.1
25°	259.1	270.5	309.5	421.2	673.2	1028.7	1663.4	2580.9	3044.4	3343.4	3334.9
27.5°	245.3	257.2	282.9	355.6	591.9	998.3	1753.2	2896.6	3423.8	3704.7	3598.2
30°	241.0	257.2	284.3	335.2	533.9	950.3	1826.9	3173.7	3715.7	3948.6	3718.0
32.5°	237.7	240.1	252.4	289.0	478.7	894.2	1876.8	3422.3	4001.4	4180.6	3890.6
35°	192.1	203.9	223.9	259.1	446.4	860.5	1876.8	3636.8	4282.8	4415.0	4055.1
37.5°	184.9	195.4	213.0	242.9	428.3	843.8	1839.3	3843.5	4570.4	4680.7	4190.6
40°	181.1	189.7	206.3	230.6	420.7	824.8	1784.6	4026.1	4851.4	4946.9	4317.0
42.5°	178.3	185.9	201.6	223.0	410.7	803.9	1740.4	4172.5	5095.3	5174.2	4437.8
45°	176.8	184.9	202.0	226.8	390.8	776.3	1725.7	4330.8	5295.9	5363.8	4568.5
47.5°	176.8	186.4	204.4	234.8	367.0	747.8	1771.8	4539.5	5485.6	5518.8	4722.5
50°	175.4	185.9	211.1	226.8	332.3	711.7	1880.2	4802.4	5690.9	5694.7	4917.5
52.5°	172.6	184.9	227.2	222.0	292.4	664.1	2026.6	5139.9	5994.7	6017.5	5222.7
55°	169.2	183.5	223.0	211.1	259.6	607.6	2146.4	5550.2	6421.6	6484.8	5671.4
57.5°	165.0	181.6	215.8	195.9	238.2	534.8	2189.7	5850.7	6719.7	6878.4	6177.2
60°	161.2	180.2	194.9	186.8	224.9	473.5	2106.0	5791.2	6699.2	7041.5	6625.5
62.5°	157.4	181.6	177.8	181.1	218.7	434.0	1887.3	5315.4	6360.3	6873.2	6957.8
65°	153.1	168.8	167.8	176.4	217.3	418.3	1564.5	4601.8	5705.2	6341.3	7036.3
67.5°	147.4	155.9	160.7	170.2	222.0	404.6	1262.6	3796.0	4794.8	5544.0	6627.4
70°	141.2	148.3	153.6	162.6	219.2	398.4	1050.1	2993.5	3804.6	4543.8	5820.7
72.5°	133.1	139.3	144.0	152.6	216.3	395.1	887.1	2410.7	2840.5	3375.3	4732.5
75°	123.6	129.3	132.6	141.2	207.3	361.8	697.4	2039.9	2125.5	2348.0	3769.4
77.5°	112.7	116.9	119.8	129.3	183.5	300.9	504.4	1573.5	1650.6	1704.8	2889.9
80°	99.8	104.1	105.5	114.6	152.1	235.3	329.0	1162.3	1234.6	1247.0	1887.3
82.5°	85.1	89.4	89.4	97.9	124.6	169.2	215.8	796.3	810.5	852.4	1334.0
85°	68.5	71.8	71.8	76.1	96.5	126.5	148.3	399.8	395.5	451.6	1155.7
87.5°	49.0	51.3	53.7	54.7	68.9	83.7	89.4	121.7	80.3	92.2	742.1
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°	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8	2921.8
2.5°	3356.3	3383.4	3355.8	3335.8	3249.8	3178.9	3084.3	3035.9
5°	3607.8	3676.7	3653.4	3569.7	3390.0	3188.0	2958.4	2854.7
7.5°	3577.3	3737.5	3741.3	3584.9	3320.1	3022.5	2711.6	2564.3
10°	3340.6	3545.5	3603.9	3452.3	3171.3	2838.6	2482.0	2313.7
12.5°	3076.3	3276.9	3321.6	3269.3	3034.4	2700.2	2338.5	2173.5
15°	2860.0	2949.8	3003.1	3048.7	2917.0	2645.1	2330.4	2149.2
17.5°	2728.3	2718.3	2733.5	2812.9	2835.2	2708.3	2454.0	2254.3
20°	2680.7	2528.1	2524.3	2633.7	2796.7	2859.0	2695.5	2455.9
22.5°	2706.9	2459.7	2428.3	2558.1	2817.2	3076.3	3012.1	2738.7
25°	2797.2	2465.4	2440.2	2565.7	2891.3	3307.8	3353.9	3104.8
27.5°	2939.3	2501.5	2468.2	2597.1	2989.7	3502.2	3690.5	3459.4
30°	3074.4	2564.3	2522.9	2658.9	3079.6	3579.2	3896.8	3736.1
32.5°	3238.4	2681.7	2609.0	2772.5	3190.8	3701.9	4080.8	3965.2
35°	3399.1	2849.0	2758.7	2947.9	3314.9	3854.5	4290.9	4258.1
37.5°	3575.4	3067.7	2993.1	3174.7	3484.6	3998.5	4559.0	4601.3
40°	3763.7	3357.7	3269.3	3505.5	3748.0	4179.2	4839.0	4940.8
42.5°	3953.4	3679.5	3574.0	3813.6	4037.5	4357.4	5078.6	5229.3
45°	4170.6	4028.9	3979.0	4238.1	4315.6	4527.2	5255.5	5442.8
47.5°	4423.5	4425.4	4505.8	4609.4	4596.1	4719.2	5433.3	5633.4
50°	4718.7	4920.3	5097.6	5166.6	4885.1	4925.5	5680.0	5888.7
52.5°	5073.4	5512.2	5731.8	5686.6	5196.5	5177.5	6070.8	6240.5
55°	5516.9	6138.7	6356.9	6324.6	5554.5	5520.7	6557.6	6656.4
57.5°	6030.3	6745.8	6946.4	6801.0	5984.2	5897.2	6960.2	6981.1
60°	6481.5	7226.9	7402.8	7241.6	6417.8	6298.0	7211.7	7110.4
62.5°	6732.5	7390.0	7513.6	7340.1	6714.9	6724.9	7266.8	7040.6
65°	6620.3	6977.8	7017.7	7003.5	6638.4	6972.6	7068.6	6717.8
67.5°	6006.1	5935.7	6002.8	6095.5	5982.3	6646.5	6519.5	6014.7
70°	4924.1	4537.6	4671.2	4733.5	4784.8	5719.4	5658.6	4898.9
72.5°	3710.9	3178.9	3284.5	3271.6	3509.3	4587.5	4400.7	3602.0
75°	2629.4	2155.4	2168.7	2163.5	2448.7	3589.2	3186.6	2464.4
77.5°	1839.8	1561.7	1568.8	1598.3	1646.3	2706.9	2276.7	1800.3
80°	1265.0	1185.2	1224.6	1227.0	1140.9	1818.4	1681.9	1444.7
82.5°	942.2	823.9	814.3	828.1	894.2	1473.2	1292.6	1002.1
85°	771.6	487.8	392.2	491.6	792.5	1459.0	858.6	528.6
87.5°	434.5	231.5	104.6	194.0	316.1	966.0	248.2	67.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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