

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: P192112

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192112  
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-04-LED-E1-SLR-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 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: 13903 lumens  
Efficiency: N/A  
Efficacy: 107.8 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): 129  
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

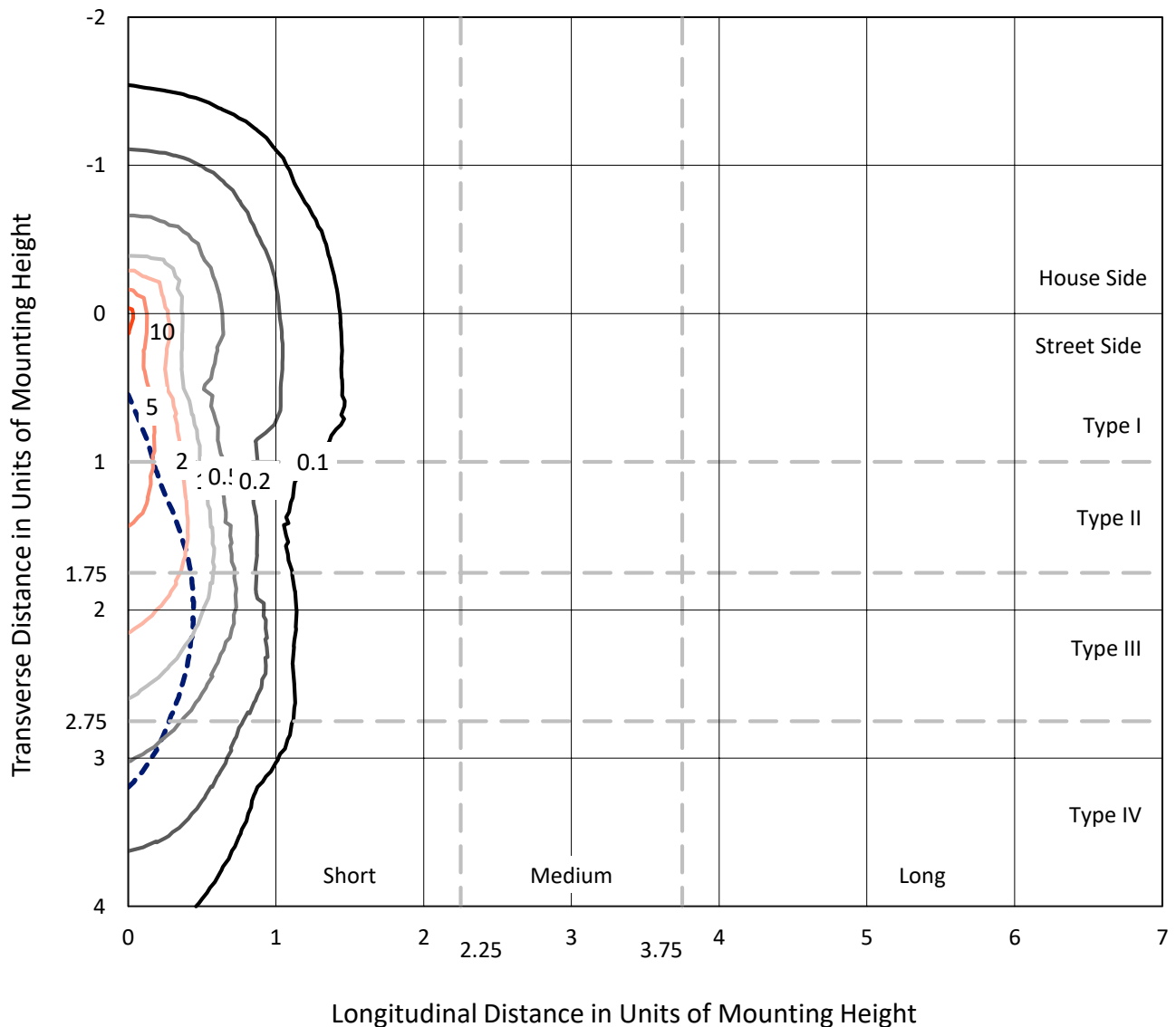


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### Iso-Footcandle Lines of Horizontal Illumination

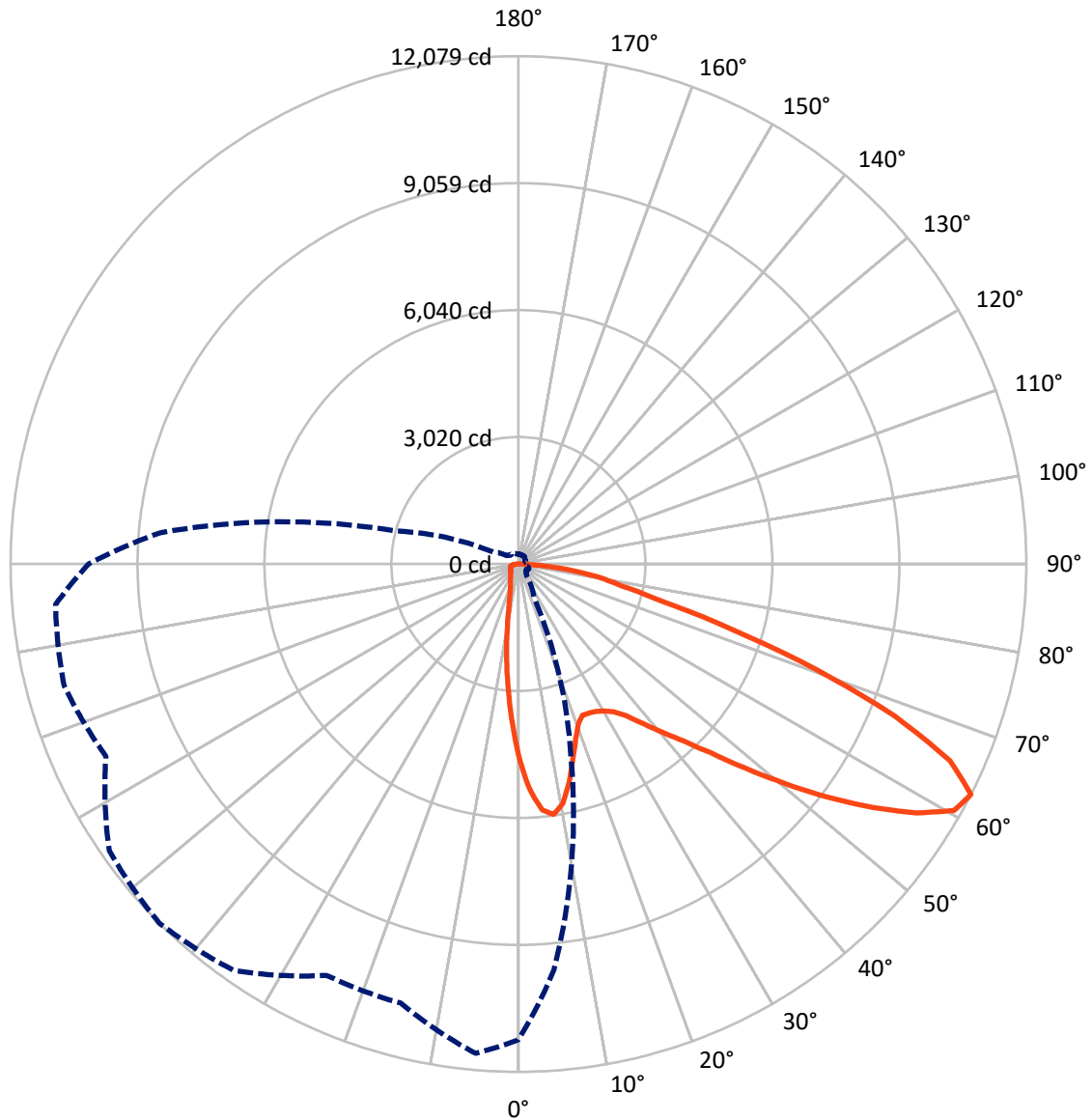
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.7 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
<b>House Side</b>	Lumens	2300.8	0.0	2300.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11602.2	0.0	11602.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13903.0	0.0	13903.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.9	2.5
10°-20°	627.0	4.5
20°-30°	914.2	6.6
30°-40°	1408.0	10.1
40°-50°	2072.2	14.9
50°-60°	3039.4	21.9
60°-70°	3397.6	24.4
70°-80°	1663.4	12.0
80°-90°	439.2	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°	13903.0	100.0
0°-180°	13903.0	100.0

**Coefficient of Utilization**



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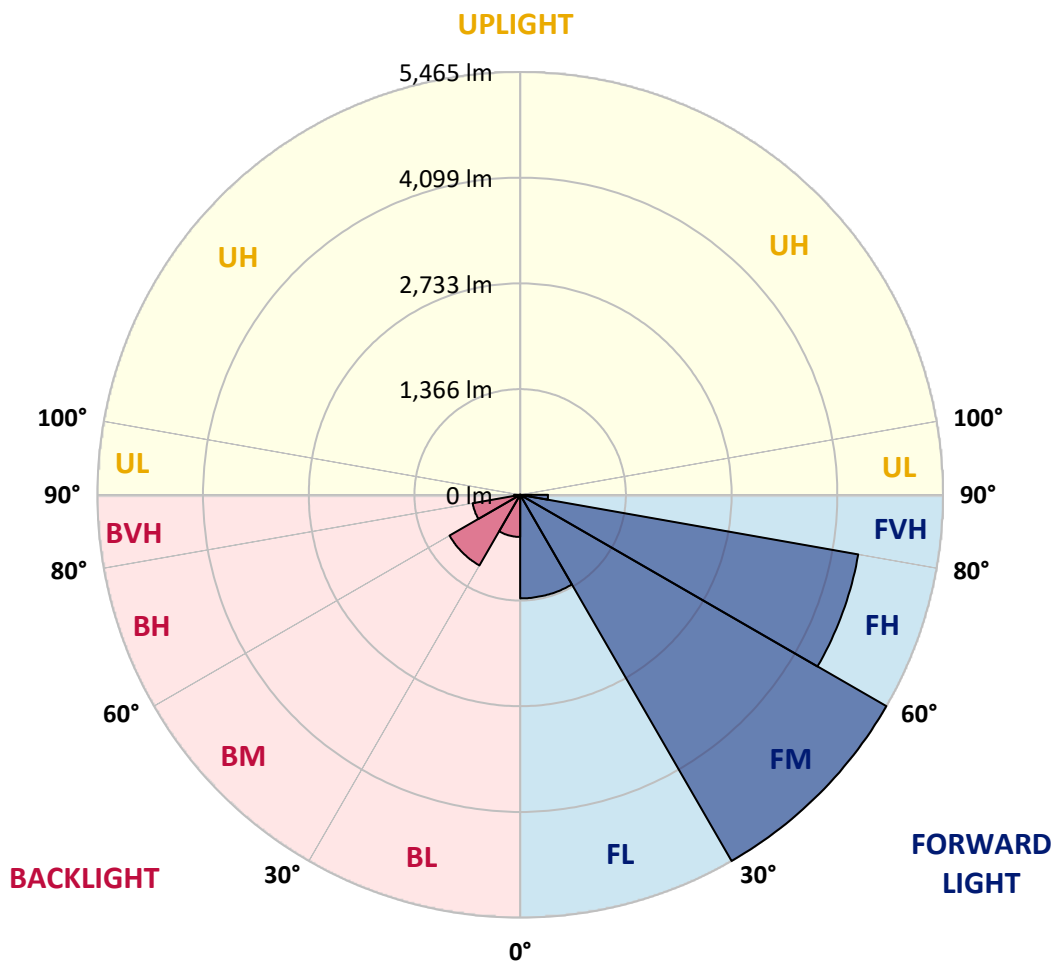
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1338.8	9.6			
FM (30°-60°)	5465.4	39.3			
FH (60°-80°)	4437.4	31.9			G2/5000
FVH (80°-90°)	360.7	2.6			G3/500
BL (0°-30°)	544.3	3.9	B2/1000		
BM (30°-60°)	1054.2	7.6	B2/2500		
BH (60°-80°)	623.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	78.5	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°	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2
2.5°	4880.6	4781.3	4616.2	4444.2	4339.5	4217.2	4121.7	4037.6	3869.5	3836.6	3866.4
5°	4589.4	4389.9	4078.9	3765.5	3556.9	3333.0	3158.7	3018.9	2805.6	2768.2	2813.3
7.5°	4122.5	3884.0	3472.8	3073.1	2778.1	2498.4	2310.4	2160.6	1994.0	1922.1	1926.7
10°	3719.7	3450.7	2964.6	2529.7	2288.2	2099.4	1941.2	1787.6	1618.7	1507.9	1477.3
12.5°	3494.2	3184.7	2624.5	2236.2	2012.3	1813.6	1643.2	1478.9	1298.5	1185.4	1153.3
15°	3455.2	3119.0	2496.9	2048.2	1767.7	1516.3	1315.3	1131.9	946.2	854.5	835.3
17.5°	3624.2	3236.7	2455.6	1880.9	1537.7	1227.4	980.6	775.7	624.4	578.5	574.7
20°	3948.2	3462.9	2450.2	1723.4	1310.7	946.9	683.3	534.2	467.7	454.7	455.5
22.5°	4402.9	3813.7	2516.0	1605.0	1102.1	706.2	513.6	447.1	421.1	408.9	408.9
25°	4991.4	4296.7	2667.3	1518.6	920.9	564.0	453.2	413.5	389.0	380.6	382.1
27.5°	5561.6	4766.7	2843.1	1450.6	802.5	512.1	429.5	393.6	372.2	363.8	367.6
30°	6006.4	5184.0	2989.8	1358.1	742.1	497.5	437.9	401.2	370.7	357.7	358.4
32.5°	6374.7	5549.3	3112.9	1291.6	688.6	426.5	377.5	361.5	357.7	342.4	334.7
35°	6845.5	5947.5	3195.4	1293.1	663.4	380.6	336.3	308.0	287.4	269.8	269.8
37.5°	7397.3	6404.6	3283.3	1310.7	654.2	353.9	321.8	293.5	274.4	257.6	254.5
40°	7943.0	6852.4	3363.5	1327.5	648.9	337.8	310.3	284.3	266.7	249.9	245.3
42.5°	8406.9	7220.8	3435.4	1335.9	630.5	336.3	301.9	278.2	261.4	243.0	238.5
45°	8750.1	7529.6	3512.6	1348.9	612.2	342.4	301.9	277.4	256.8	239.2	234.6
47.5°	9056.6	7891.8	3641.7	1348.9	590.0	330.9	311.8	278.2	256.0	237.7	233.9
50°	9467.0	8388.6	3886.3	1317.6	558.7	318.7	328.6	275.1	249.2	234.6	230.0
52.5°	10032.5	9025.2	4274.5	1263.3	510.5	295.0	326.3	273.6	242.3	227.0	221.6
55°	10701.3	9706.9	4697.9	1199.9	438.7	278.2	314.9	269.8	234.6	217.8	212.5
57.5°	11223.3	10176.2	4996.0	1102.1	376.0	269.0	279.0	266.0	225.5	207.9	203.3
60°	11431.1	10157.9	5077.8	971.4	345.4	261.4	243.8	298.1	217.8	200.2	194.9
62.5°	11318.8	9688.6	4848.5	879.7	338.6	251.4	228.5	275.9	211.7	194.9	187.2
65°	10799.9	8857.1	4240.9	855.2	358.4	241.5	218.6	216.3	203.3	187.2	179.6
67.5°	9669.5	7614.4	3395.6	857.5	383.7	231.6	208.6	197.9	191.8	178.8	172.0
70°	7875.8	6020.1	2531.3	863.6	396.7	220.1	197.9	186.5	179.6	166.6	162.0
72.5°	5790.8	4639.9	1838.8	823.9	398.9	207.1	183.4	173.5	166.6	152.9	149.0
75°	3962.0	3549.3	1275.6	682.5	347.7	188.8	167.4	158.2	153.6	136.8	134.5
77.5°	2894.3	2664.2	816.2	506.7	268.3	165.8	147.5	140.6	137.6	119.2	116.2
80°	2322.6	2107.8	510.5	347.0	196.4	139.1	123.8	120.0	116.9	98.6	96.3
82.5°	1611.1	1411.6	327.9	225.5	147.5	107.8	97.8	96.3	91.7	74.9	72.6
85°	849.9	766.6	207.9	153.6	107.0	74.1	68.0	68.0	65.7	49.7	48.1
87.5°	108.5	176.5	105.5	80.2	58.8	32.9	32.9	32.1	34.4	28.3	24.5
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°	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2
2.5°	3796.1	3832.8	3797.6	3799.9	3838.9	3955.1	4007.8	4051.4	4098.0	4128.6	4142.3
5°	2751.4	2837.0	2866.0	2927.1	3017.3	3165.6	3224.4	3267.2	3295.5	3312.3	3319.2
7.5°	1881.6	1933.6	1991.7	2090.3	2286.7	2373.8	2412.8	2402.9	2370.8	2359.3	2347.8
10°	1418.5	1397.8	1387.1	1441.4	1600.4	1688.3	1715.8	1689.0	1671.5	1675.3	1694.4
12.5°	1099.0	1063.1	1019.5	1013.4	1118.1	1196.8	1214.4	1215.9	1248.0	1276.3	1318.4
15°	801.0	797.1	775.7	762.7	822.4	886.5	894.2	907.9	937.0	957.6	994.3
17.5°	564.8	585.4	602.2	610.6	655.7	701.6	693.2	686.3	681.0	681.0	698.5
20°	455.5	469.3	490.7	515.1	561.0	593.1	572.4	544.9	525.1	518.9	521.2
22.5°	410.4	421.1	433.3	454.7	496.0	518.2	496.0	476.1	456.3	449.4	447.1
25°	387.5	401.2	412.7	428.8	459.3	474.6	453.2	438.7	426.5	418.1	411.9
27.5°	374.5	386.7	389.8	397.4	423.4	437.2	426.5	420.3	412.7	405.1	397.4
30°	360.7	358.4	353.1	353.9	374.5	388.2	387.5	389.0	388.2	386.0	384.4
32.5°	329.4	324.8	320.2	324.8	343.9	356.1	356.9	360.0	360.0	359.2	365.3
35°	274.4	282.8	288.1	301.9	324.8	335.5	330.9	323.3	309.5	301.1	300.4
37.5°	253.7	255.3	264.4	283.5	308.8	318.7	311.8	294.2	285.1	283.5	285.8
40°	243.8	245.3	250.7	268.3	293.5	303.4	297.3	284.3	275.9	275.1	279.0
42.5°	236.9	238.5	241.5	253.7	274.4	286.6	287.4	278.2	268.3	269.0	272.8
45°	233.1	233.9	233.1	239.2	258.3	272.8	279.0	272.8	264.4	266.0	270.6
47.5°	232.3	230.0	227.0	228.5	248.4	262.9	270.6	268.3	264.4	266.0	269.8
50°	229.3	223.9	220.1	219.3	239.2	254.5	261.4	261.4	262.9	266.0	269.8
52.5°	220.1	214.0	214.0	211.7	233.1	247.6	252.2	253.0	255.3	260.6	266.0
55°	208.6	206.4	208.6	204.8	228.5	242.3	244.6	246.1	247.6	252.2	259.9
57.5°	198.7	195.7	201.0	199.5	224.7	236.9	236.9	240.0	240.0	246.1	252.2
60°	193.4	187.2	189.5	191.1	219.3	232.3	230.8	233.9	235.4	240.7	245.3
62.5°	186.5	181.1	181.1	185.0	213.2	225.5	224.7	227.0	233.1	234.6	239.2
65°	178.1	175.8	173.5	178.1	207.1	217.8	218.6	221.6	227.0	228.5	232.3
67.5°	169.7	170.4	165.8	170.4	201.8	210.2	210.2	216.3	218.6	221.6	225.5
70°	160.5	161.3	157.4	162.8	197.9	201.8	201.0	209.4	210.9	213.2	217.1
72.5°	149.0	149.0	147.5	155.1	191.8	193.4	191.8	198.7	199.5	201.8	203.3
75°	136.8	136.8	135.3	146.0	188.0	184.2	179.6	185.0	186.5	188.0	188.0
77.5°	120.8	122.3	122.3	135.3	175.0	180.4	165.1	168.1	170.4	171.2	168.9
80°	100.9	104.7	106.2	123.0	146.7	166.6	147.5	149.8	150.6	150.6	147.5
82.5°	77.2	84.1	87.9	106.2	112.3	139.9	128.4	130.7	128.4	123.8	122.3
85°	53.5	62.7	67.3	81.0	84.8	107.8	107.0	107.0	102.4	96.3	95.5
87.5°	29.0	34.4	37.4	48.1	58.1	72.6	78.7	76.4	72.6	68.8	69.5
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°	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2
2.5°	4214.2	4318.1	4484.0	4610.8	4738.5	4861.5	4994.5	5096.1	5182.5	5216.1	5318.5
5°	3388.8	3518.7	3675.4	3958.1	4158.4	4379.2	4634.5	4972.3	5102.2	5281.8	5576.1
7.5°	2396.0	2513.7	2765.9	2994.4	3277.9	3590.5	3935.2	4401.4	4571.8	4860.0	5339.2
10°	1789.1	1926.0	2128.5	2321.1	2571.0	2890.5	3286.3	3807.6	4014.7	4327.3	4879.1
12.5°	1441.4	1602.7	1817.4	1998.6	2191.9	2417.4	2801.8	3373.5	3650.9	3924.5	4482.4
15°	1107.4	1276.3	1475.8	1705.8	1919.1	2162.1	2564.9	3190.0	3509.5	3794.6	4270.7
17.5°	766.6	911.0	1162.4	1402.4	1675.3	1986.3	2499.2	3229.0	3610.4	3939.0	4307.4
20°	543.4	625.9	832.3	1110.5	1450.6	1841.1	2486.9	3433.8	3929.9	4305.1	4542.8
22.5°	457.0	487.6	607.6	862.9	1255.7	1732.6	2529.7	3721.2	4360.9	4840.1	4918.1
25°	416.5	434.9	497.5	677.1	1082.2	1653.9	2674.2	4149.2	4894.4	5375.1	5361.3
27.5°	394.4	413.5	454.7	571.7	951.5	1605.0	2818.6	4656.7	5504.2	5955.9	5784.7
30°	387.5	413.5	457.0	538.8	858.3	1527.8	2937.1	5102.2	5973.5	6348.0	5977.3
32.5°	382.1	386.0	405.8	464.7	769.6	1437.6	3017.3	5502.0	6432.8	6721.0	6254.8
35°	308.8	327.9	360.0	416.5	717.6	1383.3	3017.3	5846.6	6885.3	7097.7	6519.2
37.5°	297.3	314.1	342.4	390.5	688.6	1356.6	2956.9	6179.1	7347.7	7525.0	6737.0
40°	291.2	304.9	331.7	370.7	676.4	1326.0	2869.1	6472.6	7799.3	7953.0	6940.3
42.5°	286.6	298.8	324.0	358.4	660.3	1292.4	2798.0	6708.0	8191.4	8318.3	7134.4
45°	284.3	297.3	324.8	364.6	628.2	1248.0	2774.3	6962.5	8513.9	8623.2	7344.6
47.5°	284.3	299.6	328.6	377.5	590.0	1202.2	2848.4	7298.0	8818.9	8872.4	7592.2
50°	282.0	298.8	339.3	364.6	534.2	1144.1	3022.7	7720.6	9149.0	9155.1	7905.6
52.5°	277.4	297.3	365.3	356.9	470.0	1067.7	3258.1	8263.3	9637.4	9674.1	8396.2
55°	272.1	295.0	358.4	339.3	417.3	976.7	3450.7	8922.8	10323.7	10425.4	9117.7
57.5°	265.2	291.9	347.0	314.9	382.9	859.8	3520.2	9405.8	10802.9	11058.2	9930.9
60°	259.1	289.7	313.3	300.4	361.5	761.2	3385.7	9310.3	10770.0	11320.3	10651.6
62.5°	253.0	291.9	285.8	291.2	351.6	697.8	3034.1	8545.3	10225.1	11049.8	11185.8
65°	246.1	271.3	269.8	283.5	349.3	672.6	2515.2	7398.1	9172.0	10194.6	11311.9
67.5°	236.9	250.7	258.3	273.6	356.9	650.4	2029.9	6102.7	7708.4	8912.9	10654.6
70°	227.0	238.5	246.9	261.4	352.3	640.5	1688.3	4812.6	6116.4	7304.9	9357.7
72.5°	214.0	223.9	231.6	245.3	347.7	635.1	1426.1	3875.6	4566.5	5426.3	7608.3
75°	198.7	207.9	213.2	227.0	333.2	581.6	1121.2	3279.5	3417.0	3774.7	6059.9
77.5°	181.1	188.0	192.6	207.9	295.0	483.8	810.9	2529.7	2653.5	2740.7	4646.0
80°	160.5	167.4	169.7	184.2	244.6	378.3	528.9	1868.6	1984.8	2004.7	3034.1
82.5°	136.8	143.7	143.7	157.4	200.2	272.1	347.0	1280.1	1303.1	1370.3	2144.5
85°	110.1	115.4	115.4	122.3	155.1	203.3	238.5	642.7	635.9	726.1	1857.9
87.5°	78.7	82.5	86.4	87.9	110.8	134.5	143.7	195.7	129.2	148.3	1193.0
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2	4697.2
2.5°	5395.7	5439.3	5395.0	5362.9	5224.5	5110.7	4958.6	4880.6
5°	5800.0	5910.8	5873.4	5738.9	5450.0	5125.2	4756.0	4589.4
7.5°	5751.1	6008.7	6014.8	5763.3	5337.6	4859.2	4359.4	4122.5
10°	5370.5	5699.9	5793.9	5550.1	5098.4	4563.4	3990.2	3719.7
12.5°	4945.6	5268.1	5339.9	5255.9	4878.3	4341.0	3759.4	3494.2
15°	4597.8	4742.3	4827.9	4901.2	4689.5	4252.4	3746.4	3455.2
17.5°	4386.1	4370.1	4394.5	4522.2	4558.1	4354.0	3945.1	3624.2
20°	4309.7	4064.4	4058.3	4234.0	4496.2	4596.3	4333.4	3948.2
22.5°	4351.7	3954.3	3903.9	4112.5	4529.0	4945.6	4842.4	4402.9
25°	4496.9	3963.5	3923.0	4124.7	4648.3	5317.8	5391.9	4991.4
27.5°	4725.5	4021.6	3968.1	4175.2	4806.5	5630.4	5933.0	5561.6
30°	4942.5	4122.5	4056.0	4274.5	4950.9	5754.2	6264.7	6006.4
32.5°	5206.2	4311.2	4194.3	4457.2	5129.8	5951.3	6560.5	6374.7
35°	5464.5	4580.2	4435.0	4739.2	5329.2	6196.7	6898.3	6845.5
37.5°	5748.0	4931.8	4811.8	5103.8	5602.1	6428.2	7329.3	7397.3
40°	6050.7	5398.0	5255.9	5635.7	6025.5	6718.7	7779.5	7943.0
42.5°	6355.6	5915.4	5745.8	6130.9	6490.9	7005.3	8164.7	8406.9
45°	6704.9	6477.2	6396.9	6813.4	6938.0	7278.1	8449.0	8750.1
47.5°	7111.5	7114.6	7243.7	7410.3	7388.9	7586.9	8734.8	9056.6
50°	7586.1	7910.2	8195.2	8306.0	7853.6	7918.6	9131.5	9467.0
52.5°	8156.3	8861.7	9214.8	9142.2	8354.2	8323.6	9759.7	10032.5
55°	8869.3	9869.0	10219.8	10167.8	8929.7	8875.4	10542.3	10701.3
57.5°	9694.7	10844.9	11167.5	10933.6	9620.6	9480.7	11189.6	11223.3
60°	10420.0	11618.4	11901.2	11642.1	10317.6	10125.0	11593.9	11431.1
62.5°	10823.5	11880.5	12079.2	11800.3	10795.3	10811.3	11682.6	11318.8
65°	10643.2	11217.9	11282.1	11259.2	10672.2	11209.5	11363.9	10799.9
67.5°	9655.7	9542.6	9650.4	9799.4	9617.5	10685.2	10481.2	9669.5
70°	7916.3	7294.9	7509.7	7609.8	7692.3	9194.9	9097.1	7875.8
72.5°	5965.9	5110.7	5280.3	5259.7	5641.8	7375.2	7074.8	5790.8
75°	4227.2	3465.2	3486.6	3478.2	3936.7	5770.2	5122.9	3962.0
77.5°	2957.7	2510.6	2522.1	2569.5	2646.7	4351.7	3660.1	2894.3
80°	2033.7	1905.3	1968.8	1972.6	1834.2	2923.3	2704.0	2322.6
82.5°	1514.8	1324.5	1309.2	1331.4	1437.6	2368.5	2078.0	1611.1
85°	1240.4	784.1	630.5	790.3	1274.0	2345.5	1380.3	849.9
87.5°	698.5	372.2	168.1	311.8	508.2	1553.0	398.9	108.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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