

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: P269173

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269173  
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-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 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: 13875.2 lumens  
Efficiency: N/A  
Efficacy: 83.6 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

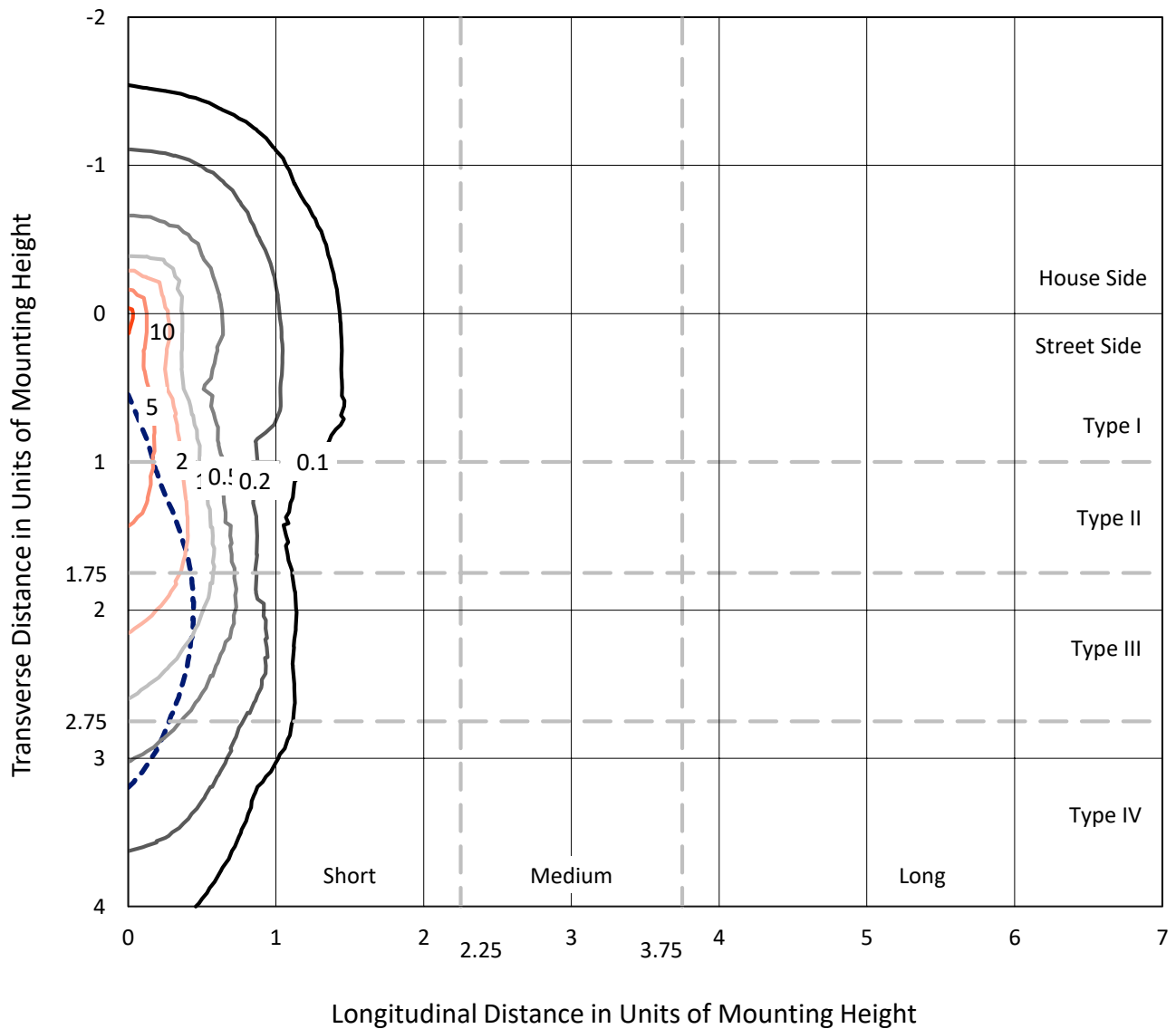
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

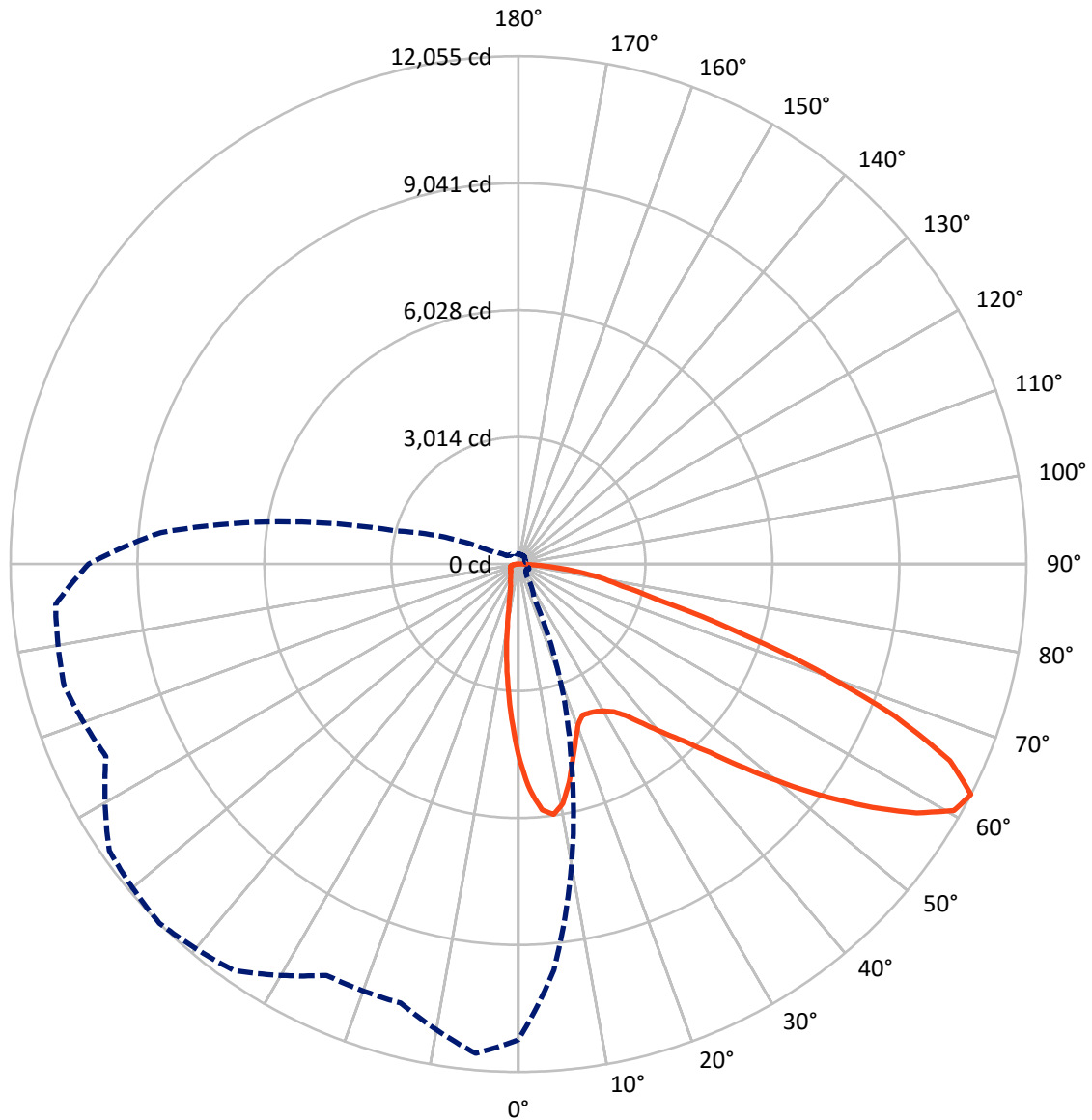
× Max cd  
 - - - 1/2 Max cd



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	2296.2	0.0	2296.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11579.1	0.0	11579.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13875.2	0.0	13875.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.2	2.5
10°-20°	625.8	4.5
20°-30°	912.4	6.6
30°-40°	1405.2	10.1
40°-50°	2068.0	14.9
50°-60°	3033.4	21.9
60°-70°	3390.9	24.4
70°-80°	1660.1	12.0
80°-90°	438.3	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°	13875.2	100.0
0°-180°	13875.2	100.0

**Coefficient of Utilization**



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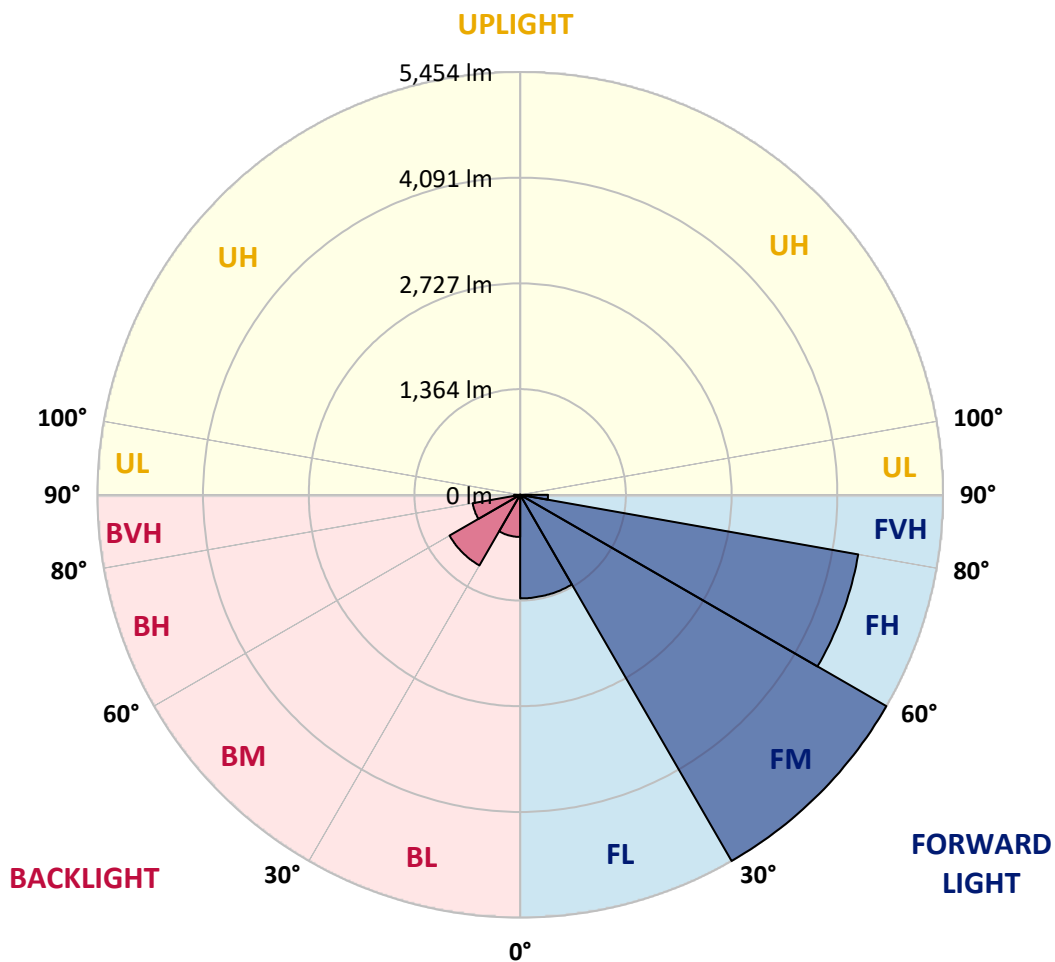
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1336.1	9.6			
FM	(30°-60°)	5454.5	39.3			
FH	(60°-80°)	4428.5	31.9			G2/5000
FVH	(80°-90°)	360.0	2.6			G3/500
BL	(0°-30°)	543.2	3.9	B2/1000		
BM	(30°-60°)	1052.1	7.6	B2/2500		
BH	(60°-80°)	622.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	78.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7
2.5°	4870.9	4771.6	4607.0	4435.3	4330.8	4208.7	4113.5	4029.5	3861.8	3828.9	3858.7
5°	4580.3	4381.2	4070.7	3758.0	3549.8	3326.3	3152.4	3012.8	2799.9	2762.6	2807.7
7.5°	4114.1	3876.2	3465.9	3067.0	2772.6	2493.3	2305.8	2156.2	1989.9	1918.3	1922.8
10°	3712.2	3443.7	2958.7	2524.6	2283.6	2095.2	1937.4	1784.0	1615.5	1504.9	1474.4
12.5°	3487.2	3178.4	2619.3	2231.7	2008.3	1809.9	1639.9	1475.8	1295.8	1183.0	1151.0
15°	3448.4	3112.7	2491.9	2044.2	1764.2	1513.3	1312.7	1129.6	944.3	852.8	833.6
17.5°	3616.8	3230.1	2450.7	1877.1	1534.7	1225.0	978.7	774.2	623.2	577.4	573.6
20°	3940.3	3456.0	2445.4	1720.0	1308.1	945.0	682.0	533.1	466.8	453.9	454.6
22.5°	4394.1	3806.1	2510.9	1601.8	1099.9	704.8	512.6	446.2	420.2	408.1	408.1
25°	4981.5	4288.1	2661.9	1515.6	919.1	562.9	452.2	412.6	388.2	379.9	381.4
27.5°	5550.4	4757.2	2837.3	1447.7	800.8	511.0	428.6	392.7	371.4	363.1	366.9
30°	5994.4	5173.7	2983.8	1355.5	740.7	496.6	437.0	400.5	369.9	356.9	357.7
32.5°	6361.9	5538.2	3106.6	1289.0	687.3	425.5	376.7	360.8	356.9	341.7	334.1
35°	6831.9	5935.6	3189.1	1290.5	662.1	379.9	335.5	307.4	286.7	269.2	269.2
37.5°	7382.5	6391.7	3276.7	1308.1	652.9	353.2	321.1	292.8	273.9	257.1	254.0
40°	7927.2	6838.6	3356.7	1324.9	647.6	337.1	309.6	283.8	266.2	249.4	244.9
42.5°	8390.1	7206.4	3428.6	1333.3	629.3	335.5	301.3	277.7	260.9	242.5	238.1
45°	8732.7	7514.5	3505.5	1346.2	610.9	341.7	301.3	276.9	256.2	238.7	234.2
47.5°	9038.4	7876.0	3634.5	1346.2	588.7	330.2	311.3	277.7	255.5	237.2	233.4
50°	9448.1	8371.8	3878.5	1314.9	557.6	318.1	328.1	274.6	248.7	234.2	229.5
52.5°	10012.5	9007.1	4266.1	1260.9	509.5	294.5	325.6	273.1	241.9	226.6	221.3
55°	10679.9	9687.5	4688.6	1197.5	437.8	277.7	314.2	269.2	234.2	217.4	212.0
57.5°	11200.8	10155.9	4986.0	1099.9	375.2	268.5	278.5	265.4	225.0	207.5	202.8
60°	11408.2	10137.6	5067.7	969.5	344.8	260.9	243.4	297.5	217.4	199.9	194.6
62.5°	11296.1	9669.3	4838.8	878.0	337.9	250.9	228.1	275.3	211.3	194.6	186.8
65°	10778.3	8839.4	4232.5	853.5	357.7	241.0	218.2	215.9	202.8	186.8	179.2
67.5°	9650.1	7599.1	3388.9	855.7	382.9	231.1	208.2	197.5	191.5	178.5	171.7
70°	7860.0	6008.1	2526.3	862.0	395.9	219.6	197.5	186.0	179.2	166.2	161.8
72.5°	5779.2	4630.7	1835.1	822.2	398.2	206.7	183.1	173.2	166.2	152.5	148.7
75°	3954.0	3542.1	1273.0	681.2	347.0	188.5	167.1	157.9	153.3	136.5	134.2
77.5°	2888.5	2659.0	814.7	505.7	267.8	165.5	147.2	140.3	137.4	118.9	115.9
80°	2317.9	2103.7	509.5	346.2	196.0	138.8	123.5	119.7	116.7	98.4	96.1
82.5°	1607.8	1408.8	327.3	225.0	147.2	107.5	97.6	96.1	91.5	74.7	72.5
85°	848.2	765.0	207.5	153.3	106.8	74.0	67.9	67.9	65.5	49.5	48.1
87.5°	108.3	176.2	105.2	80.0	58.7	32.8	32.8	32.0	34.3	28.2	24.4
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7
2.5°	3788.5	3825.2	3790.0	3792.4	3831.2	3947.2	3999.9	4043.4	4089.9	4120.3	4134.0
5°	2745.8	2831.3	2860.3	2921.3	3011.3	3159.2	3218.0	3260.7	3289.0	3305.8	3312.6
7.5°	1877.8	1929.6	1987.7	2086.1	2282.1	2369.1	2407.9	2398.0	2366.0	2354.5	2343.0
10°	1415.6	1395.1	1384.4	1438.5	1597.1	1685.0	1712.3	1685.7	1668.2	1671.9	1691.0
12.5°	1096.8	1061.0	1017.5	1011.4	1115.9	1194.4	1212.1	1213.5	1245.6	1273.7	1315.7
15°	799.3	795.4	774.2	761.3	820.7	884.8	892.3	906.1	935.1	955.6	992.3
17.5°	563.6	584.3	601.1	609.4	654.4	700.1	691.9	685.0	679.6	679.6	697.2
20°	454.6	468.3	489.7	514.1	559.9	592.0	571.3	543.8	524.0	518.0	520.2
22.5°	409.5	420.2	432.4	453.9	495.1	517.2	495.1	475.3	455.4	448.6	446.2
25°	386.7	400.5	412.0	428.0	458.5	473.6	452.2	437.8	425.5	417.3	411.2
27.5°	373.8	385.9	389.0	396.6	422.6	436.2	425.5	419.5	412.0	404.2	396.6
30°	360.0	357.7	352.3	353.2	373.8	387.4	386.7	388.2	387.4	385.3	383.7
32.5°	328.7	324.2	319.5	324.2	343.2	355.4	356.2	359.2	359.2	358.6	364.6
35°	273.9	282.2	287.5	301.3	324.2	334.9	330.2	322.6	308.8	300.6	299.8
37.5°	253.2	254.8	263.9	283.0	308.2	318.1	311.3	293.7	284.6	283.0	285.2
40°	243.4	244.9	250.2	267.8	292.8	302.8	296.7	283.8	275.3	274.6	278.5
42.5°	236.4	238.1	241.0	253.2	273.9	286.0	286.7	277.7	267.8	268.5	272.2
45°	232.7	233.4	232.7	238.7	257.9	272.2	278.5	272.2	263.9	265.4	270.0
47.5°	231.9	229.5	226.6	228.1	247.9	262.3	270.0	267.8	263.9	265.4	269.2
50°	228.8	223.5	219.6	218.8	238.7	254.0	260.9	260.9	262.3	265.4	269.2
52.5°	219.6	213.5	213.5	211.3	232.7	247.2	251.7	252.5	254.8	260.1	265.4
55°	208.2	205.9	208.2	204.5	228.1	241.9	244.1	245.5	247.2	251.7	259.3
57.5°	198.3	195.2	200.6	199.1	224.2	236.4	236.4	239.5	239.5	245.5	251.7
60°	193.0	186.8	189.2	190.7	218.8	231.9	230.3	233.4	234.9	240.2	244.9
62.5°	186.0	180.7	180.7	184.6	212.8	225.0	224.2	226.6	232.7	234.2	238.7
65°	177.8	175.3	173.2	177.8	206.7	217.4	218.2	221.3	226.6	228.1	231.9
67.5°	169.3	170.0	165.5	170.0	201.4	209.8	209.8	215.9	218.2	221.3	225.0
70°	160.2	160.9	157.2	162.5	197.5	201.4	200.6	208.9	210.6	212.8	216.6
72.5°	148.7	148.7	147.2	154.9	191.5	193.0	191.5	198.3	199.1	201.4	202.8
75°	136.5	136.5	135.0	145.6	187.7	183.9	179.2	184.6	186.0	187.7	187.7
77.5°	120.6	122.0	122.0	135.0	174.7	180.0	164.7	167.9	170.0	170.9	168.5
80°	100.7	104.6	106.0	122.8	146.5	166.2	147.2	149.5	150.2	150.2	147.2
82.5°	77.1	83.9	87.8	106.0	112.1	139.5	128.2	130.4	128.2	123.5	122.0
85°	53.4	62.5	67.2	80.8	84.7	107.5	106.8	106.8	102.1	96.1	95.3
87.5°	28.9	34.3	37.4	48.1	58.0	72.5	78.5	76.3	72.5	68.6	69.3
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°	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7
2.5°	4205.8	4309.4	4474.9	4601.6	4728.9	4851.7	4984.4	5085.9	5172.1	5205.7	5307.8
5°	3381.9	3511.7	3668.0	3950.2	4150.1	4370.6	4625.3	4962.3	5092.0	5271.3	5564.9
7.5°	2391.2	2508.6	2760.3	2988.4	3271.4	3583.3	3927.3	4392.6	4562.8	4850.3	5328.4
10°	1785.7	1922.2	2124.2	2316.4	2565.9	2884.6	3279.8	3800.0	4006.7	4318.6	4869.4
12.5°	1438.5	1599.4	1813.8	1994.5	2187.6	2412.6	2796.2	3366.8	3643.5	3916.7	4473.5
15°	1105.3	1273.7	1472.9	1702.5	1915.2	2157.8	2559.7	3183.7	3502.5	3787.0	4262.2
17.5°	765.0	909.2	1160.2	1399.6	1671.9	1982.4	2494.1	3222.6	3603.2	3931.2	4298.7
20°	542.2	624.7	830.7	1108.2	1447.7	1837.5	2481.9	3426.9	3922.0	4296.6	4533.7
22.5°	456.1	486.6	606.4	861.1	1253.1	1729.1	2524.6	3713.8	4352.2	4830.5	4908.2
25°	415.6	434.1	496.6	675.7	1080.0	1650.5	2668.9	4140.8	4884.5	5364.4	5350.7
27.5°	393.5	412.6	453.9	570.6	949.6	1601.8	2813.0	4647.4	5493.2	5944.1	5773.1
30°	386.7	412.6	456.1	537.7	856.5	1524.8	2931.2	5092.0	5961.5	6335.2	5965.4
32.5°	381.4	385.3	405.0	463.7	768.1	1434.8	3011.3	5491.0	6419.9	6707.6	6242.2
35°	308.2	327.3	359.2	415.6	716.2	1380.5	3011.3	5834.9	6871.6	7083.6	6506.2
37.5°	296.7	313.5	341.7	389.8	687.3	1353.8	2951.0	6166.8	7333.0	7509.9	6723.5
40°	290.6	304.3	331.0	369.9	675.0	1323.4	2863.3	6459.6	7783.8	7937.1	6926.4
42.5°	286.0	298.2	323.4	357.7	658.9	1289.7	2792.4	6694.6	8175.0	8301.6	7120.1
45°	283.8	296.7	324.2	363.9	626.9	1245.6	2768.8	6948.6	8496.9	8606.0	7329.9
47.5°	283.8	299.0	328.1	376.7	588.7	1199.7	2842.7	7283.4	8801.2	8854.7	7577.1
50°	281.4	298.2	338.7	363.9	533.1	1141.8	3016.6	7705.2	9130.7	9136.8	7889.8
52.5°	276.9	296.7	364.6	356.2	469.0	1065.6	3251.5	8246.7	9618.2	9654.8	8379.4
55°	271.6	294.5	357.7	338.7	416.5	974.8	3443.7	8905.0	10303.1	10404.4	9099.6
57.5°	264.7	291.4	346.2	314.2	382.0	858.2	3513.2	9387.0	10781.3	11036.0	9911.0
60°	258.5	289.1	312.7	299.8	360.8	759.6	3379.0	9291.7	10748.5	11297.7	10630.4
62.5°	252.5	291.4	285.2	290.6	350.9	696.4	3028.0	8528.1	10204.7	11027.7	11163.4
65°	245.5	270.7	269.2	283.0	348.5	671.3	2510.1	7383.3	9153.5	10174.2	11289.3
67.5°	236.4	250.2	257.9	273.1	356.2	649.0	2025.9	6090.5	7692.9	8895.0	10633.3
70°	226.6	238.1	246.3	260.9	351.6	639.1	1685.0	4803.0	6104.3	7290.3	9339.0
72.5°	213.5	223.5	231.1	244.9	347.0	633.8	1423.3	3867.8	4557.5	5415.4	7593.1
75°	198.3	207.5	212.8	226.6	332.6	580.5	1118.8	3273.0	3410.1	3767.1	6047.7
77.5°	180.7	187.7	192.1	207.5	294.5	482.7	809.3	2524.6	2648.3	2735.2	4636.7
80°	160.2	167.1	169.3	183.9	244.1	377.6	527.8	1864.9	1980.9	2000.6	3028.0
82.5°	136.5	143.4	143.4	157.2	199.9	271.6	346.2	1277.6	1300.4	1367.6	2140.2
85°	109.9	115.2	115.2	122.0	154.9	202.8	238.1	641.5	634.7	724.7	1854.2
87.5°	78.5	82.4	86.1	87.8	110.6	134.2	143.4	195.2	128.8	148.0	1190.7
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°	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7	4687.7
2.5°	5384.9	5428.4	5384.3	5352.1	5214.1	5100.4	4948.7	4870.9
5°	5788.4	5899.0	5861.6	5727.5	5439.1	5114.9	4746.6	4580.3
7.5°	5739.6	5996.6	6002.7	5751.8	5326.9	4849.5	4350.6	4114.1
10°	5359.7	5688.4	5782.3	5538.9	5088.2	4554.2	3982.2	3712.2
12.5°	4935.6	5257.6	5329.3	5245.4	4868.5	4332.3	3752.0	3487.2
15°	4588.6	4732.8	4818.1	4891.5	4680.2	4244.0	3738.9	3448.4
17.5°	4377.4	4361.4	4385.7	4513.2	4548.9	4345.3	3937.2	3616.8
20°	4301.1	4056.2	4050.2	4225.5	4487.3	4587.1	4324.7	3940.3
22.5°	4343.0	3946.4	3896.0	4104.3	4520.0	4935.6	4832.7	4394.1
25°	4487.9	3955.5	3915.2	4116.6	4638.9	5307.1	5381.1	4981.5
27.5°	4716.0	4013.5	3960.2	4166.9	4796.9	5619.1	5921.2	5550.4
30°	4932.7	4114.1	4047.9	4266.1	4940.9	5742.7	6252.2	5994.4
32.5°	5195.7	4302.6	4185.9	4448.2	5119.5	5939.5	6547.3	6361.9
35°	5453.6	4571.0	4426.2	4729.8	5318.5	6184.3	6884.5	6831.9
37.5°	5736.5	4922.0	4802.2	5093.6	5591.0	6415.3	7314.7	7382.5
40°	6038.5	5387.2	5245.4	5624.5	6013.4	6705.2	7764.0	7927.2
42.5°	6342.9	5903.7	5734.3	6118.6	6477.9	6991.2	8148.3	8390.1
45°	6691.6	6464.3	6384.2	6799.8	6924.1	7263.5	8432.1	8732.7
47.5°	7097.2	7100.4	7229.2	7395.6	7374.1	7571.8	8717.3	9038.4
50°	7570.9	7894.3	8178.9	8289.4	7837.9	7902.7	9113.1	9448.1
52.5°	8139.9	8844.0	9196.4	9123.8	8337.4	8306.9	9740.1	10012.5
55°	8851.5	9849.2	10199.4	10147.4	8911.8	8857.6	10521.2	10679.9
57.5°	9675.4	10823.3	11145.1	10911.7	9601.4	9461.8	11167.3	11200.8
60°	10399.1	11595.1	11877.4	11618.8	10297.0	10104.8	11570.8	11408.2
62.5°	10801.8	11856.8	12055.1	11776.7	10773.7	10789.7	11659.2	11296.1
65°	10621.9	11195.4	11259.5	11236.7	10650.8	11187.1	11341.1	10778.3
67.5°	9636.5	9523.6	9631.1	9779.8	9598.3	10663.9	10460.3	9650.1
70°	7900.5	7280.4	7494.6	7594.6	7676.9	9176.5	9078.9	7860.0
72.5°	5954.0	5100.4	5269.7	5249.2	5630.5	7360.4	7060.7	5779.2
75°	4218.7	3458.2	3479.7	3471.2	3928.8	5758.7	5112.7	3954.0
77.5°	2951.8	2505.6	2517.1	2564.3	2641.3	4343.0	3652.8	2888.5
80°	2029.6	1901.5	1964.9	1968.6	1830.6	2917.4	2698.6	2317.9
82.5°	1511.8	1321.9	1306.6	1328.8	1434.8	2363.7	2073.8	1607.8
85°	1238.0	782.6	629.3	788.7	1271.6	2340.9	1377.6	848.2
87.5°	697.2	371.4	167.9	311.3	507.3	1549.8	398.2	108.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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