

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: P192131

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192131  
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-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 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: 15970 lumens  
Efficiency: N/A  
Efficacy: 96.2 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

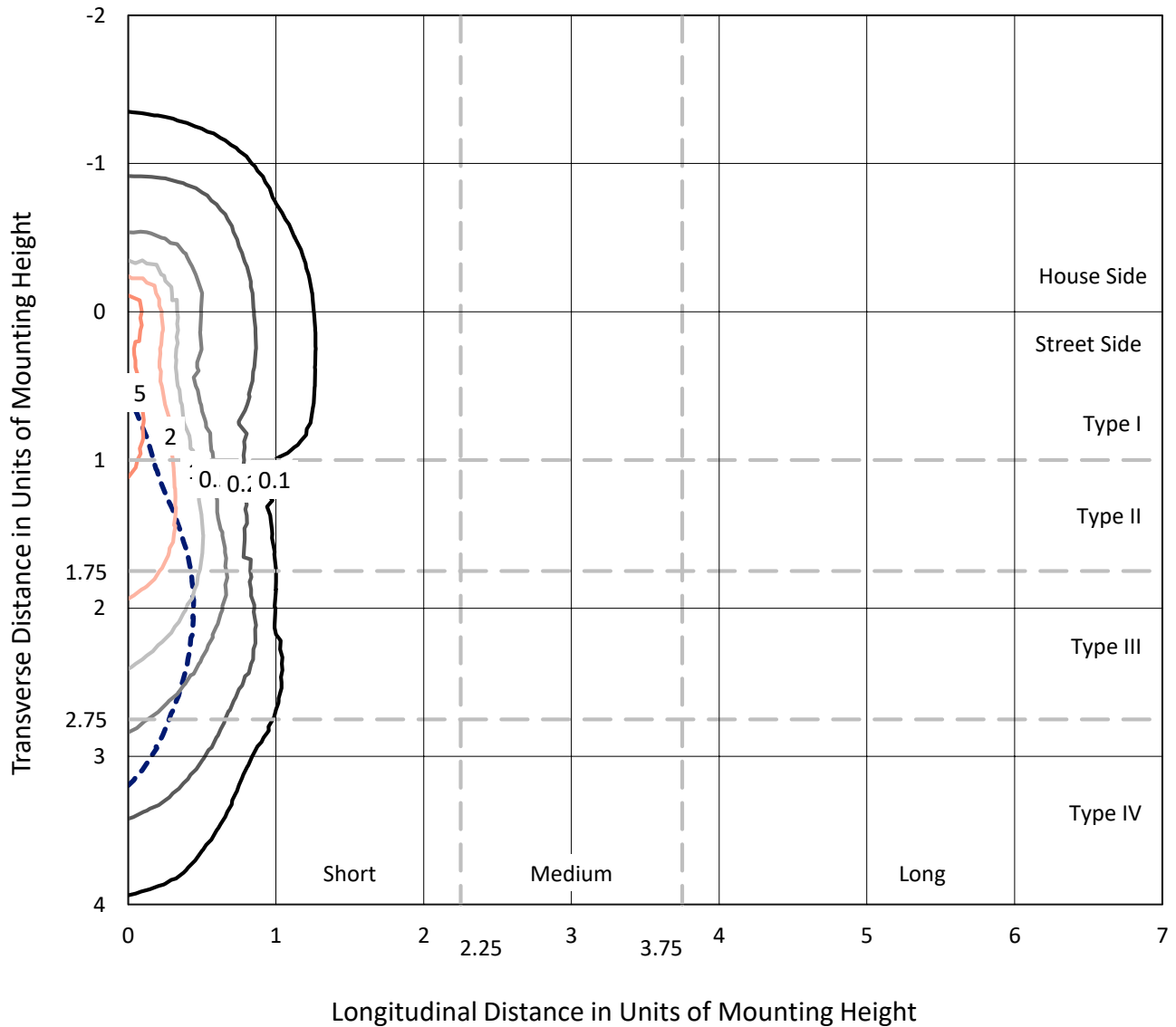
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

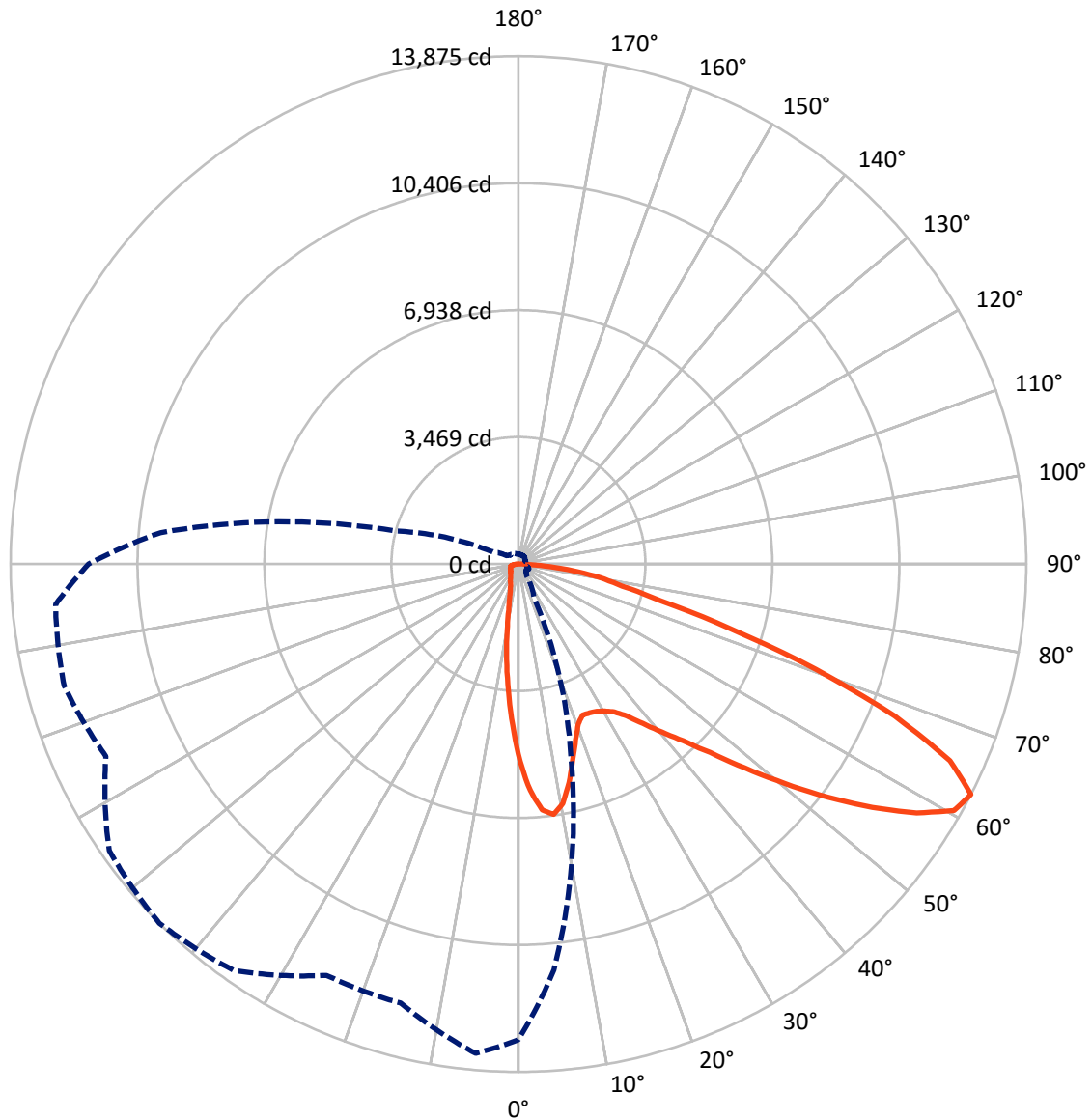
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	2642.8	0.0	2642.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	13327.2	0.0	13327.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	15970.0	0.0	15970.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.8	2.5
10°-20°	720.2	4.5
20°-30°	1050.1	6.6
30°-40°	1617.3	10.1
40°-50°	2380.2	14.9
50°-60°	3491.3	21.9
60°-70°	3902.8	24.4
70°-80°	1910.8	12.0
80°-90°	504.5	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°	15970.0	100.0
0°-180°	15970.0	100.0



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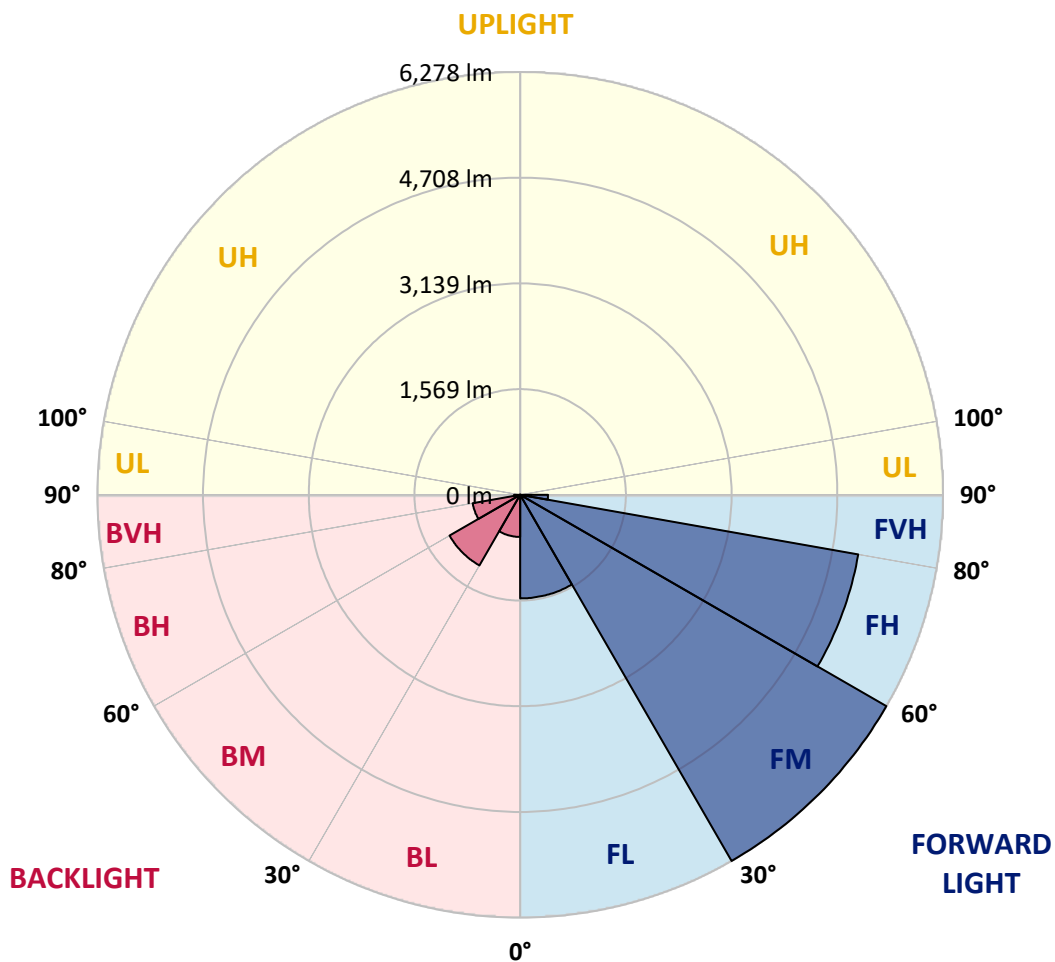
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7050

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1537.9	9.6			
FM (30°-60°)	6278.0	39.3			
FH (60°-80°)	5097.1	31.9			G3/7500
FVH (80°-90°)	414.3	2.6			G3/500
BL (0°-30°)	625.2	3.9	B2/1000		
BM (30°-60°)	1210.9	7.6	B2/2500		
BH (60°-80°)	716.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	90.2	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°	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5
2.5°	5606.2	5492.1	5302.5	5104.9	4984.7	4844.2	4734.5	4637.9	4444.8	4407.0	4441.3
5°	5271.7	5042.6	4685.3	4325.4	4085.7	3828.5	3628.3	3467.7	3222.7	3179.7	3231.5
7.5°	4735.4	4461.4	3989.1	3530.0	3191.1	2869.8	2653.9	2481.8	2290.4	2207.9	2213.2
10°	4272.7	3963.7	3405.3	2905.8	2628.4	2411.6	2229.8	2053.4	1859.4	1732.1	1697.0
12.5°	4013.7	3658.2	3014.7	2568.7	2311.5	2083.2	1887.5	1698.7	1491.5	1361.6	1324.7
15°	3969.0	3582.7	2868.1	2352.8	2030.6	1741.7	1510.9	1300.2	1086.8	981.5	959.5
17.5°	4163.0	3717.9	2820.7	2160.5	1766.3	1409.9	1126.3	891.1	717.2	664.6	660.2
20°	4535.2	3977.7	2814.5	1979.6	1505.6	1087.7	784.8	613.6	537.3	522.3	523.2
22.5°	5057.5	4380.7	2890.0	1843.6	1265.9	811.2	589.9	513.6	483.7	469.7	469.7
25°	5733.5	4935.5	3063.8	1744.4	1057.9	647.9	520.6	474.9	446.8	437.2	438.9
27.5°	6388.4	5475.4	3265.8	1666.2	921.8	588.2	493.4	452.1	427.5	417.9	422.3
30°	6899.4	5954.7	3434.3	1560.0	852.4	571.5	503.0	460.9	425.8	410.9	411.7
32.5°	7322.5	6374.4	3575.7	1483.6	791.0	489.9	433.7	415.2	410.9	393.3	384.5
35°	7863.3	6831.8	3670.5	1485.4	762.0	437.2	386.3	353.8	330.1	309.9	309.9
37.5°	8497.1	7356.7	3771.4	1505.6	751.5	406.5	369.6	337.1	315.2	295.8	292.3
40°	9123.9	7871.2	3863.6	1524.9	745.3	388.0	356.4	326.6	306.4	287.1	281.8
42.5°	9656.8	8294.3	3946.1	1534.6	724.3	386.3	346.8	319.6	300.2	279.2	273.9
45°	10051.0	8649.0	4034.8	1549.5	703.2	393.3	346.8	318.7	295.0	274.8	269.5
47.5°	10403.0	9065.1	4183.2	1549.5	677.7	380.1	358.2	319.6	294.1	273.0	268.6
50°	10874.5	9635.7	4464.1	1513.5	641.7	366.1	377.5	316.0	286.2	269.5	264.2
52.5°	11524.1	10367.0	4910.1	1451.2	586.4	338.9	374.9	314.3	278.3	260.7	254.6
55°	12292.2	11150.1	5396.4	1378.3	503.9	319.6	361.7	309.9	269.5	250.2	244.1
57.5°	12891.8	11689.1	5738.8	1265.9	431.9	309.0	320.4	305.5	259.0	238.8	233.5
60°	13130.6	11668.1	5832.7	1115.8	396.8	300.2	280.0	342.4	250.2	230.0	223.9
62.5°	13001.6	11129.0	5569.3	1010.5	388.9	288.8	262.5	316.9	243.2	223.9	215.1
65°	12405.5	10173.9	4871.4	982.4	411.7	277.4	251.1	248.4	233.5	215.1	206.3
67.5°	11107.1	8746.4	3900.5	985.0	440.7	266.0	239.7	227.4	220.4	205.4	197.5
70°	9046.7	6915.2	2907.6	992.0	455.6	252.8	227.4	214.2	206.3	191.4	186.1
72.5°	6651.8	5329.7	2112.2	946.4	458.3	237.9	210.7	199.3	191.4	175.6	171.2
75°	4551.0	4076.9	1465.2	784.0	399.4	216.8	192.3	181.7	176.5	157.1	154.5
77.5°	3324.6	3060.3	937.6	582.0	308.1	190.5	169.4	161.5	158.0	137.0	133.4
80°	2667.9	2421.2	586.4	398.6	225.6	159.8	142.2	137.8	134.3	113.2	110.6
82.5°	1850.6	1621.5	376.6	259.0	169.4	123.8	112.4	110.6	105.3	86.0	83.4
85°	976.2	880.5	238.8	176.5	122.9	85.2	78.1	78.1	75.5	57.1	55.3
87.5°	124.7	202.8	121.1	92.2	67.6	37.7	37.7	36.9	39.5	32.5	28.1
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°	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5
2.5°	4360.5	4402.6	4362.2	4364.9	4409.7	4543.1	4603.7	4653.7	4707.3	4742.4	4758.2
5°	3160.4	3258.7	3292.1	3362.3	3465.9	3636.2	3703.8	3753.0	3785.5	3804.8	3812.7
7.5°	2161.4	2221.1	2287.8	2401.0	2626.7	2726.7	2771.5	2760.1	2723.2	2710.1	2696.9
10°	1629.4	1605.7	1593.4	1655.7	1838.3	1939.3	1970.9	1940.1	1920.0	1924.3	1946.3
12.5°	1262.4	1221.1	1171.1	1164.1	1284.4	1374.8	1395.0	1396.7	1433.6	1466.1	1514.4
15°	920.0	915.6	891.1	876.1	944.6	1018.4	1027.1	1042.9	1076.3	1100.0	1142.1
17.5°	648.8	672.5	691.8	701.4	753.2	805.9	796.2	788.3	782.2	782.2	802.4
20°	523.2	539.0	563.6	591.7	644.4	681.2	657.5	625.9	603.1	596.1	598.7
22.5°	471.4	483.7	497.8	522.3	569.8	595.2	569.8	546.9	524.1	516.2	513.6
25°	445.1	460.9	474.1	492.5	527.6	545.2	520.6	503.9	489.9	480.2	473.2
27.5°	430.2	444.2	447.7	456.5	486.4	502.2	489.9	482.8	474.1	465.3	456.5
30°	414.4	411.7	405.6	406.5	430.2	446.0	445.1	446.8	446.0	443.3	441.6
32.5°	378.4	373.1	367.8	373.1	395.1	409.1	410.0	413.5	413.5	412.6	419.6
35°	315.2	324.8	331.0	346.8	373.1	385.4	380.1	371.3	355.5	345.9	345.0
37.5°	291.5	293.2	303.8	325.7	354.7	366.1	358.2	338.0	327.5	325.7	328.3
40°	280.0	281.8	287.9	308.1	337.1	348.5	341.5	326.6	316.9	316.0	320.4
42.5°	272.1	273.9	277.4	291.5	315.2	329.2	330.1	319.6	308.1	309.0	313.4
45°	267.8	268.6	267.8	274.8	296.7	313.4	320.4	313.4	303.8	305.5	310.8
47.5°	266.9	264.2	260.7	262.5	285.3	302.0	310.8	308.1	303.8	305.5	309.9
50°	263.4	257.2	252.8	252.0	274.8	292.3	300.2	300.2	302.0	305.5	309.9
52.5°	252.8	245.8	245.8	243.2	267.8	284.4	289.7	290.6	293.2	299.4	305.5
55°	239.7	237.0	239.7	235.3	262.5	278.3	280.9	282.7	284.4	289.7	298.5
57.5°	228.3	224.7	230.9	229.1	258.1	272.1	272.1	275.7	275.7	282.7	289.7
60°	222.1	215.1	217.7	219.5	252.0	266.9	265.1	268.6	270.4	276.5	281.8
62.5°	214.2	208.1	208.1	212.4	244.9	259.0	258.1	260.7	267.8	269.5	274.8
65°	204.5	201.9	199.3	204.5	237.9	250.2	251.1	254.6	260.7	262.5	266.9
67.5°	194.9	195.8	190.5	195.8	231.8	241.4	241.4	248.4	251.1	254.6	259.0
70°	184.4	185.2	180.8	187.0	227.4	231.8	230.9	240.5	242.3	244.9	249.3
72.5°	171.2	171.2	169.4	178.2	220.4	222.1	220.4	228.3	229.1	231.8	233.5
75°	157.1	157.1	155.4	167.7	216.0	211.6	206.3	212.4	214.2	216.0	216.0
77.5°	138.7	140.5	140.5	155.4	201.0	207.2	189.6	193.1	195.8	196.6	194.0
80°	115.9	120.3	122.0	141.3	168.6	191.4	169.4	172.1	172.9	172.9	169.4
82.5°	88.7	96.6	101.0	122.0	129.1	160.7	147.5	150.1	147.5	142.2	140.5
85°	61.5	72.0	77.3	93.1	97.4	123.8	122.9	122.9	117.6	110.6	109.7
87.5°	33.4	39.5	43.0	55.3	66.7	83.4	90.4	87.8	83.4	79.0	79.9
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°	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5
2.5°	4840.7	4960.1	5150.6	5296.3	5442.9	5584.3	5737.0	5853.8	5953.0	5991.6	6109.3
5°	3892.6	4041.8	4221.8	4546.6	4776.6	5030.3	5323.5	5711.6	5860.8	6067.1	6405.1
7.5°	2752.2	2887.4	3177.1	3439.6	3765.3	4124.3	4520.3	5055.8	5251.6	5582.5	6133.0
10°	2055.1	2212.3	2444.9	2666.2	2953.2	3320.2	3774.9	4373.7	4611.6	4970.6	5604.5
12.5°	1655.7	1840.9	2087.6	2295.7	2517.8	2776.8	3218.4	3875.0	4193.7	4508.0	5148.8
15°	1272.1	1466.1	1695.2	1959.5	2204.4	2483.6	2946.2	3664.3	4031.3	4358.7	4905.7
17.5°	880.5	1046.4	1335.3	1610.9	1924.3	2281.6	2870.7	3709.1	4147.2	4524.7	4947.8
20°	624.2	719.0	956.0	1275.6	1666.2	2114.8	2856.7	3944.4	4514.1	4945.2	5218.2
22.5°	525.0	560.1	697.9	991.1	1442.4	1990.2	2905.8	4274.5	5009.3	5559.7	5649.2
25°	478.5	499.5	571.5	777.8	1243.1	1899.8	3071.7	4766.1	5622.0	6174.2	6158.4
27.5°	453.0	474.9	522.3	656.7	1093.0	1843.6	3237.7	5349.0	6322.6	6841.4	6644.8
30°	445.1	474.9	525.0	618.9	985.9	1754.9	3373.7	5860.8	6861.6	7291.8	6866.0
32.5°	438.9	443.3	466.2	533.8	884.0	1651.3	3465.9	6319.9	7389.2	7720.2	7184.7
35°	354.7	376.6	413.5	478.5	824.3	1589.0	3465.9	6715.9	7908.9	8153.0	7488.4
37.5°	341.5	360.8	393.3	448.6	791.0	1558.3	3396.6	7097.8	8440.1	8643.7	7738.6
40°	334.5	350.3	381.0	425.8	776.9	1523.1	3295.6	7434.9	8958.9	9135.3	7972.1
42.5°	329.2	343.3	372.2	411.7	758.5	1484.5	3214.0	7705.3	9409.2	9555.0	8195.1
45°	326.6	341.5	373.1	418.8	721.6	1433.6	3186.7	7997.6	9779.7	9905.3	8436.5
47.5°	326.6	344.1	377.5	433.7	677.7	1380.9	3271.9	8383.0	10130.0	10191.5	8721.0
50°	323.9	343.3	389.8	418.8	613.6	1314.2	3472.1	8868.5	10509.2	10516.3	9080.9
52.5°	318.7	341.5	419.6	410.0	539.9	1226.4	3742.5	9491.8	11070.2	11112.4	9644.5
55°	312.5	338.9	411.7	389.8	479.3	1121.9	3963.7	10249.4	11858.6	11975.3	10473.3
57.5°	304.6	335.4	398.6	361.7	439.8	987.6	4043.6	10804.2	12409.0	12702.2	11407.3
60°	297.6	332.7	359.9	345.0	415.2	874.4	3889.1	10694.5	12371.3	13003.3	12235.2
62.5°	290.6	335.4	328.3	334.5	403.8	801.5	3485.2	9815.7	11745.3	12692.6	12848.8
65°	282.7	311.7	309.9	325.7	401.2	772.5	2889.1	8498.0	10535.6	11710.2	12993.7
67.5°	272.1	287.9	296.7	314.3	410.0	747.1	2331.7	7010.0	8854.4	10238.0	12238.7
70°	260.7	273.9	283.6	300.2	404.7	735.7	1939.3	5528.1	7025.8	8390.9	10748.9
72.5°	245.8	257.2	266.0	281.8	399.4	729.5	1638.1	4451.8	5245.4	6233.0	8739.4
75°	228.3	238.8	244.9	260.7	382.8	668.1	1287.9	3767.0	3925.1	4335.9	6960.8
77.5°	208.1	216.0	221.2	238.8	338.9	555.7	931.4	2905.8	3048.0	3148.1	5336.7
80°	184.4	192.3	194.9	211.6	280.9	434.6	607.5	2146.4	2279.9	2302.7	3485.2
82.5°	157.1	165.0	165.0	180.8	230.0	312.5	398.6	1470.5	1496.8	1574.1	2463.4
85°	126.4	132.6	132.6	140.5	178.2	233.5	273.9	738.3	730.4	834.0	2134.2
87.5°	90.4	94.8	99.2	101.0	127.3	154.5	165.0	224.7	148.4	170.3	1370.4
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5	5395.5
2.5°	6197.9	6248.0	6197.0	6160.2	6001.3	5870.5	5695.8	5606.2
5°	6662.3	6789.6	6746.6	6592.1	6260.3	5887.1	5463.1	5271.7
7.5°	6606.1	6902.0	6909.0	6620.2	6131.2	5581.6	5007.5	4735.4
10°	6168.9	6547.3	6655.3	6375.3	5856.4	5241.9	4583.5	4272.7
12.5°	5680.8	6051.3	6133.8	6037.3	5603.6	4986.4	4318.4	4013.7
15°	5281.4	5447.3	5545.6	5629.9	5386.7	4884.6	4303.4	3969.0
17.5°	5038.2	5019.8	5047.9	5194.5	5235.7	5001.4	4531.7	4163.0
20°	4950.4	4668.6	4661.6	4863.5	5164.6	5279.6	4977.6	4535.2
22.5°	4998.7	4542.2	4484.3	4723.9	5202.4	5680.8	5562.3	5057.5
25°	5165.5	4552.7	4506.2	4738.0	5339.3	6108.4	6193.5	5733.5
27.5°	5428.0	4619.5	4558.0	4795.9	5521.1	6467.4	6815.1	6388.4
30°	5677.3	4735.4	4659.0	4910.1	5687.0	6609.7	7196.1	6899.4
32.5°	5980.2	4952.2	4817.9	5119.9	5892.4	6836.1	7535.8	7322.5
35°	6276.9	5261.2	5094.4	5443.8	6121.5	7118.0	7923.9	7863.3
37.5°	6602.6	5665.0	5527.2	5862.6	6435.0	7384.0	8419.0	8497.1
40°	6950.3	6200.6	6037.3	6473.6	6921.3	7717.6	8936.1	9123.9
42.5°	7300.6	6794.9	6600.0	7042.5	7455.9	8046.8	9378.5	9656.8
45°	7701.7	7440.1	7348.0	7826.4	7969.5	8360.2	9705.1	10051.0
47.5°	8168.8	8172.3	8320.7	8512.0	8487.5	8714.8	10033.4	10403.0
50°	8714.0	9086.2	9413.6	9540.9	9021.2	9095.8	10489.1	10874.5
52.5°	9368.9	10179.2	10584.7	10501.3	9596.2	9561.1	11210.7	11524.1
55°	10187.9	11336.2	11739.2	11679.5	10257.3	10195.0	12109.6	12292.2
57.5°	11136.1	12457.3	12827.8	12559.1	11050.9	10890.3	12853.2	12891.8
60°	11969.2	13345.7	13670.5	13372.9	11851.5	11630.3	13317.6	13130.6
62.5°	12432.7	13646.8	13875.1	13554.7	12400.2	12418.7	13419.5	13001.6
65°	12225.5	12885.7	12959.4	12933.1	12258.9	12876.0	13053.4	12405.5
67.5°	11091.3	10961.4	11085.1	11256.3	11047.4	12273.8	12039.4	11107.1
70°	9093.2	8379.5	8626.2	8741.2	8836.0	10561.9	10449.6	9046.7
72.5°	6852.8	5870.5	6065.4	6041.7	6480.6	8471.7	8126.6	6651.8
75°	4855.6	3980.4	4004.9	3995.3	4522.0	6628.1	5884.5	4551.0
77.5°	3397.4	2883.9	2897.0	2951.5	3040.1	4998.7	4204.2	3324.6
80°	2336.1	2188.6	2261.5	2265.8	2106.9	3357.9	3106.0	2667.9
82.5°	1740.0	1521.4	1503.8	1529.3	1651.3	2720.6	2387.0	1850.6
85°	1424.8	900.7	724.3	907.7	1463.4	2694.3	1585.5	976.2
87.5°	802.4	427.5	193.1	358.2	583.8	1783.9	458.3	124.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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