

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: P299348

Luminaire Tested: **GLNA-AF-03-LED-E1-SLR-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-03-LED-E1-SLR-7030  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

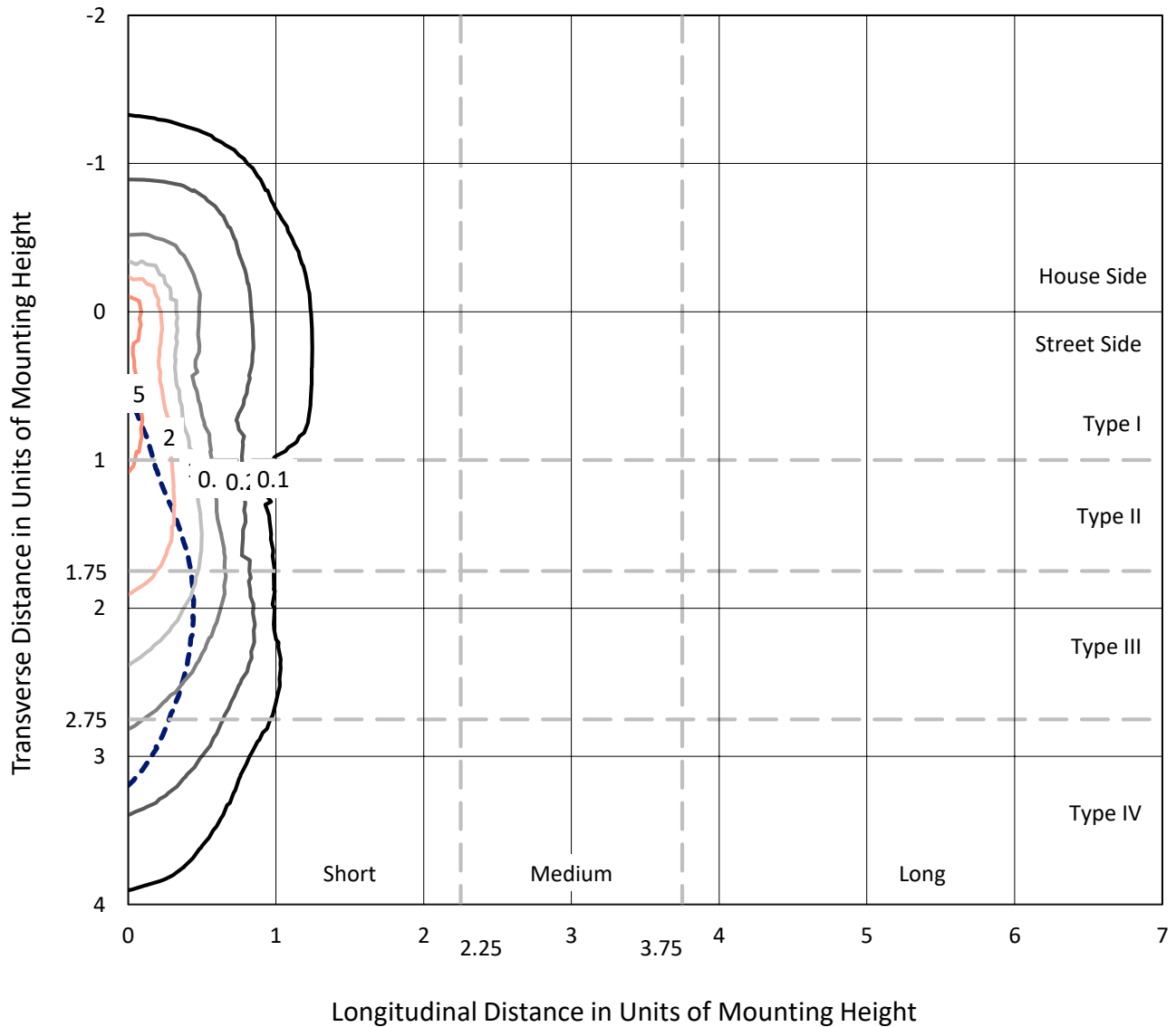
Lumens per Lamp: N/A  
Luminaire Lumens: 15396.8 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (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

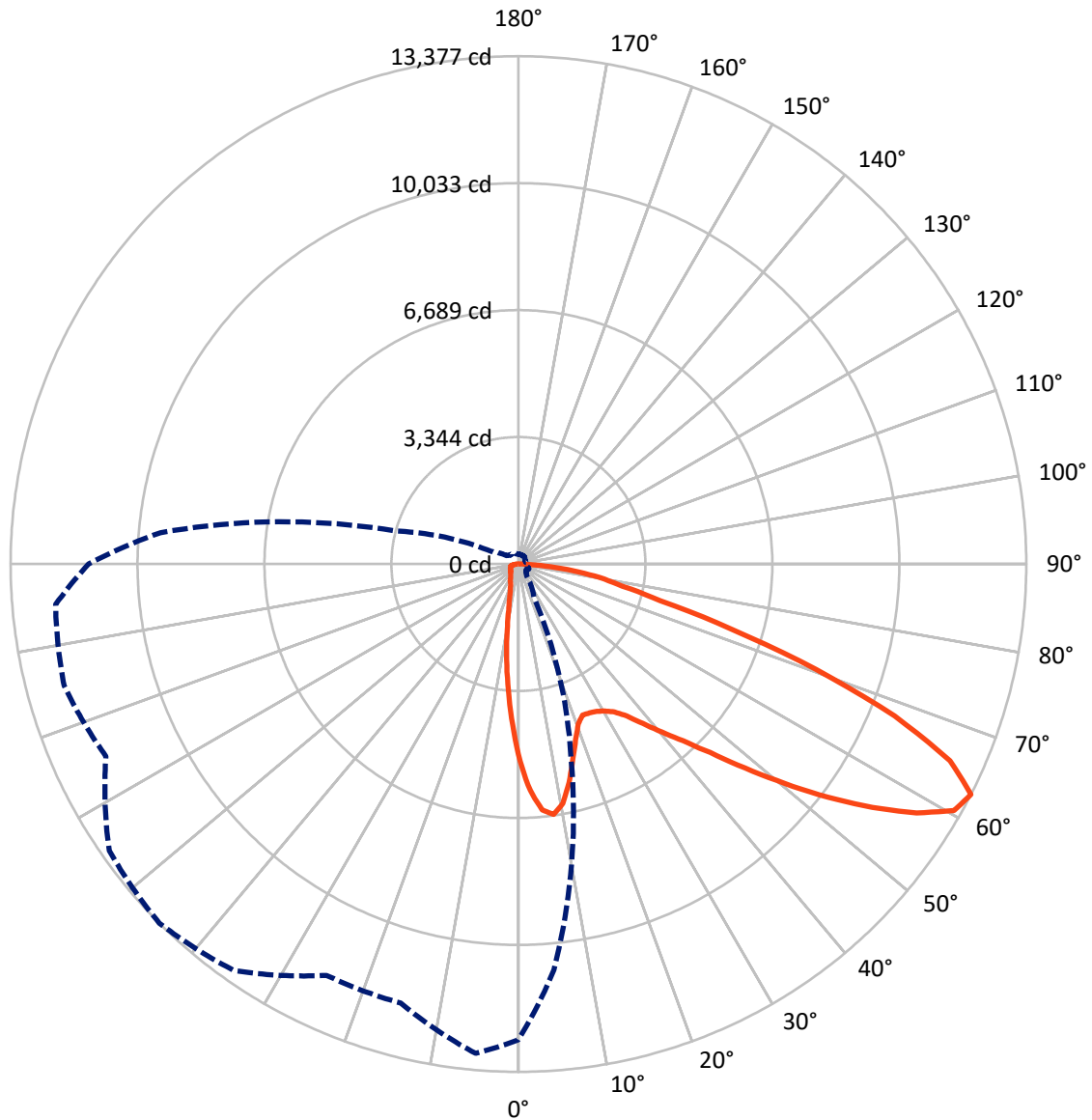
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	2548.0	0.0	2548.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	12848.8	0.0	12848.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	15396.8	0.0	15396.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.7	2.5
10°-20°	694.4	4.5
20°-30°	1012.4	6.6
30°-40°	1559.3	10.1
40°-50°	2294.8	14.9
50°-60°	3366.0	21.9
60°-70°	3762.7	24.4
70°-80°	1842.2	12.0
80°-90°	486.4	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°	15396.8	100.0
0°-180°	15396.8	100.0



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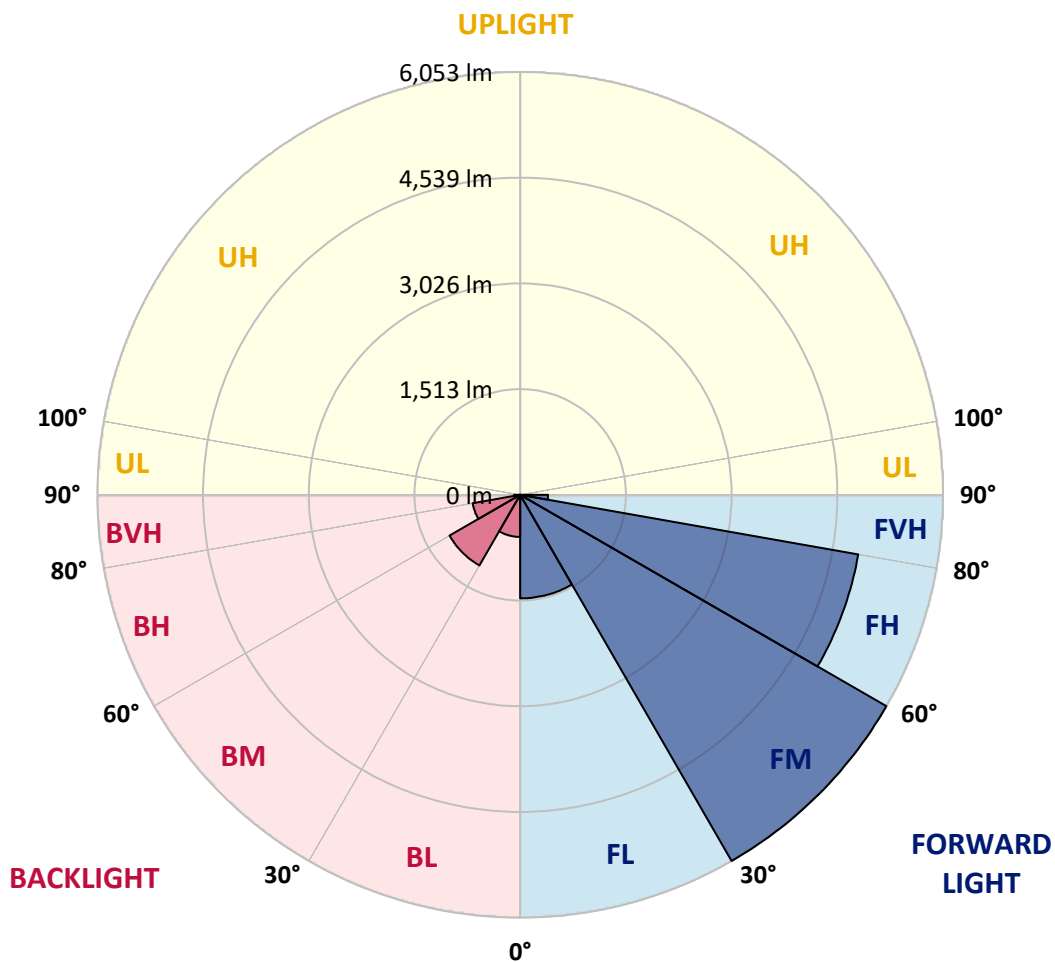
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1482.7	9.6			
FM	(30°-60°)	6052.6	39.3			
FH	(60°-80°)	4914.1	31.9			G2/5000
FVH	(80°-90°)	399.4	2.6			G3/500
BL	(0°-30°)	602.8	3.9	B2/1000		
BM	(30°-60°)	1167.5	7.6	B2/2500		
BH	(60°-80°)	690.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	86.9	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°	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0
2.5°	5404.9	5295.0	5112.0	4921.6	4805.8	4670.3	4564.5	4471.4	4285.2	4248.8	4281.8
5°	5082.5	4861.7	4517.1	4170.1	3939.0	3691.0	3498.0	3343.3	3107.0	3065.5	3115.5
7.5°	4565.5	4301.3	3846.0	3403.2	3076.5	2766.8	2558.7	2392.7	2208.2	2128.7	2133.6
10°	4119.4	3821.4	3283.1	2801.6	2534.1	2325.0	2149.8	1979.6	1792.6	1669.8	1636.0
12.5°	3869.6	3527.0	2906.4	2476.4	2228.4	2008.6	1819.7	1637.8	1438.0	1312.7	1277.3
15°	3826.5	3454.0	2765.2	2268.4	1957.6	1679.3	1456.7	1253.5	1047.7	946.3	925.0
17.5°	4013.6	3584.4	2719.4	2082.9	1702.9	1359.3	1085.9	859.1	691.6	640.8	636.5
20°	4372.3	3835.0	2713.5	1908.6	1451.5	1048.7	756.6	591.6	518.1	503.5	504.5
22.5°	4876.0	4223.4	2786.2	1777.5	1220.4	782.0	568.8	495.0	466.3	452.8	452.8
25°	5527.6	4758.4	2953.8	1681.9	1019.8	624.7	502.0	457.9	430.7	421.5	423.3
27.5°	6159.2	5278.8	3148.5	1606.6	888.6	567.0	475.6	435.8	412.3	402.8	407.1
30°	6651.7	5741.1	3311.0	1504.1	821.7	550.9	485.0	444.3	410.5	396.1	396.9
32.5°	7059.6	6145.6	3447.3	1430.3	762.5	472.2	418.2	400.2	396.1	379.2	370.8
35°	7581.0	6586.6	3538.8	1432.1	734.6	421.5	372.3	341.0	318.2	298.8	298.8
37.5°	8192.1	7092.7	3636.1	1451.5	724.6	391.8	356.4	324.9	303.9	285.2	281.9
40°	8796.3	7588.7	3725.1	1470.2	718.5	374.1	343.6	314.9	295.4	276.7	271.6
42.5°	9310.3	7996.6	3804.5	1479.5	698.2	372.3	334.4	308.0	289.5	269.0	264.2
45°	9690.3	8338.4	3890.1	1493.8	678.0	379.2	334.4	307.2	284.4	264.9	259.8
47.5°	10029.6	8739.7	4033.0	1493.8	653.4	366.4	345.4	308.0	283.6	263.1	259.0
50°	10484.1	9289.8	4303.9	1459.2	618.8	352.8	363.8	304.7	276.0	259.8	254.7
52.5°	11110.3	9995.0	4733.8	1399.0	565.5	326.7	361.3	303.1	268.3	251.4	245.5
55°	11851.1	10749.8	5202.7	1328.8	485.8	308.0	348.7	298.8	259.8	241.1	235.2
57.5°	12429.1	11269.4	5532.7	1220.4	416.4	298.0	309.0	294.7	249.6	230.1	225.2
60°	12659.2	11249.2	5623.4	1075.6	382.5	289.5	270.1	330.0	241.1	221.6	215.7
62.5°	12535.0	10729.6	5369.5	974.2	374.9	278.5	253.2	305.4	234.4	215.7	207.3
65°	11960.2	9808.7	4696.7	947.0	396.9	267.5	242.1	239.6	225.2	207.3	198.8
67.5°	10708.3	8432.5	3760.4	949.6	424.8	256.5	231.1	219.3	212.4	198.1	190.4
70°	8722.0	6667.1	2803.1	956.5	439.2	243.7	219.3	206.5	198.8	184.5	179.4
72.5°	6413.1	5138.4	2036.5	912.4	441.7	229.3	203.2	192.2	184.5	169.4	165.0
75°	4387.7	3930.5	1412.6	755.9	385.1	209.1	185.3	175.3	170.1	151.4	148.9
77.5°	3205.2	2950.5	904.0	561.1	297.0	183.7	163.5	155.8	152.5	132.0	128.6
80°	2572.3	2334.2	565.5	384.3	217.5	154.0	137.1	133.0	129.4	109.2	106.6
82.5°	1784.1	1563.3	363.1	249.6	163.5	119.4	108.4	106.6	101.5	83.0	80.5
85°	941.1	848.9	230.1	170.1	118.4	82.0	75.3	75.3	72.8	55.1	53.3
87.5°	120.2	195.5	116.8	88.9	65.1	36.4	36.4	35.6	38.2	31.3	27.2
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°	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0
2.5°	4203.9	4244.7	4205.7	4208.3	4251.3	4380.0	4438.4	4486.6	4538.3	4572.1	4587.3
5°	3047.1	3141.9	3173.9	3241.5	3341.5	3505.7	3570.8	3618.2	3649.7	3668.2	3675.9
7.5°	2083.9	2141.3	2205.6	2314.8	2532.3	2628.9	2672.0	2660.9	2625.6	2612.8	2600.2
10°	1570.9	1548.1	1536.1	1596.3	1772.3	1869.7	1900.2	1870.5	1851.0	1855.4	1876.4
12.5°	1217.1	1177.4	1129.2	1122.3	1238.4	1325.5	1344.9	1346.5	1382.1	1413.4	1460.0
15°	887.1	882.7	859.1	844.8	910.6	981.9	990.3	1005.4	1037.7	1060.5	1101.0
17.5°	625.5	648.3	667.0	676.2	726.2	776.9	767.7	760.0	754.1	754.1	773.6
20°	504.5	519.6	543.5	570.4	621.4	656.7	633.9	603.4	581.4	574.7	577.3
22.5°	454.5	466.3	479.9	503.5	549.4	574.0	549.4	527.3	505.3	497.6	495.0
25°	429.2	444.3	457.1	474.8	508.6	525.5	502.0	485.8	472.2	463.0	456.1
27.5°	414.8	428.2	431.7	440.2	468.9	484.0	472.2	465.6	457.1	448.7	440.2
30°	399.5	396.9	391.0	391.8	414.8	430.0	429.2	430.7	430.0	427.4	425.9
32.5°	364.9	359.7	354.6	359.7	380.8	394.3	395.4	398.7	398.7	397.9	404.6
35°	303.9	313.1	319.0	334.4	359.7	371.5	366.4	358.0	342.8	333.4	332.6
37.5°	281.1	282.6	292.9	313.9	342.1	352.8	345.4	325.9	315.7	313.9	316.4
40°	270.1	271.6	277.5	297.0	324.9	335.9	329.3	314.9	305.4	304.7	309.0
42.5°	262.4	264.2	267.5	281.1	303.9	317.5	318.2	308.0	297.0	298.0	302.1
45°	258.0	259.0	258.0	264.9	286.0	302.1	309.0	302.1	292.9	294.7	299.5
47.5°	257.3	254.7	251.4	253.2	275.2	291.1	299.5	297.0	292.9	294.7	298.8
50°	253.9	248.0	243.7	242.9	264.9	281.9	289.5	289.5	291.1	294.7	298.8
52.5°	243.7	237.0	237.0	234.4	258.0	274.2	279.3	280.1	282.6	288.5	294.7
55°	231.1	228.6	231.1	226.8	253.2	268.3	270.8	272.6	274.2	279.3	287.7
57.5°	220.1	216.8	222.7	220.9	248.8	262.4	262.4	265.7	265.7	272.6	279.3
60°	214.2	207.3	209.9	211.6	242.9	257.3	255.7	259.0	260.6	266.7	271.6
62.5°	206.5	200.6	200.6	204.7	236.2	249.6	248.8	251.4	258.0	259.8	264.9
65°	197.3	194.7	192.2	197.3	229.3	241.1	242.1	245.5	251.4	253.2	257.3
67.5°	187.8	188.8	183.7	188.8	223.4	232.7	232.7	239.6	242.1	245.5	249.6
70°	177.8	178.6	174.2	180.4	219.3	223.4	222.7	231.9	233.7	236.2	240.3
72.5°	165.0	165.0	163.5	171.9	212.4	214.2	212.4	220.1	220.9	223.4	225.2
75°	151.4	151.4	149.9	161.7	208.3	204.0	198.8	204.7	206.5	208.3	208.3
77.5°	133.8	135.5	135.5	149.9	193.7	199.9	182.7	186.3	188.8	189.6	187.0
80°	111.7	116.1	117.6	136.3	162.4	184.5	163.5	165.8	166.8	166.8	163.5
82.5°	85.6	93.0	97.4	117.6	124.5	154.8	142.2	144.8	142.2	137.1	135.5
85°	59.2	69.4	74.6	89.7	94.0	119.4	118.4	118.4	113.5	106.6	105.8
87.5°	32.3	38.2	41.5	53.3	64.3	80.5	87.1	84.6	80.5	76.1	77.1
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0
2.5°	4666.9	4782.0	4965.7	5106.1	5247.6	5383.9	5531.2	5643.7	5739.3	5776.7	5889.9
5°	3753.0	3896.7	4070.2	4383.3	4605.2	4849.6	5132.5	5506.6	5650.4	5849.4	6175.1
7.5°	2653.5	2783.7	3063.0	3316.1	3630.2	3976.4	4357.9	4874.2	5063.1	5382.1	5912.7
10°	1981.4	2132.8	2357.0	2570.5	2847.2	3201.1	3639.5	4216.8	4446.1	4792.2	5403.3
12.5°	1596.3	1774.9	2012.7	2213.3	2427.5	2677.1	3102.9	3735.8	4043.3	4346.1	4963.9
15°	1226.3	1413.4	1634.5	1889.2	2125.2	2394.5	2840.5	3532.9	3886.5	4202.4	4729.5
17.5°	848.9	1008.8	1287.3	1553.0	1855.4	2199.7	2767.8	3575.9	3998.2	4362.3	4770.2
20°	601.9	693.1	921.7	1229.9	1606.6	2038.8	2754.2	3802.7	4352.0	4767.6	5030.8
22.5°	506.1	539.9	672.9	955.5	1390.6	1918.6	2801.6	4120.9	4829.4	5360.0	5446.4
25°	461.2	481.7	550.9	750.0	1198.4	1831.5	2961.5	4594.9	5420.3	5952.7	5937.3
27.5°	436.6	457.9	503.5	633.1	1053.9	1777.5	3121.4	5157.1	6095.7	6595.8	6406.2
30°	429.2	457.9	506.1	596.8	950.6	1691.9	3252.6	5650.4	6615.3	7030.1	6619.7
32.5°	423.3	427.4	449.4	514.5	852.2	1591.9	3341.5	6093.1	7123.9	7443.2	6926.9
35°	342.1	363.1	398.7	461.2	794.8	1532.0	3341.5	6474.9	7625.1	7860.3	7219.8
37.5°	329.3	348.0	379.2	432.5	762.5	1502.3	3274.6	6843.1	8137.0	8333.6	7460.9
40°	322.6	337.7	367.4	410.5	749.0	1468.4	3177.2	7168.0	8637.2	8807.3	7686.1
42.5°	317.5	331.0	359.0	396.9	731.3	1431.3	3098.6	7428.6	9071.5	9211.9	7901.1
45°	314.9	329.3	359.7	403.8	695.7	1382.1	3072.4	7710.4	9428.7	9549.6	8133.7
47.5°	314.9	331.8	363.8	418.2	653.4	1331.4	3154.4	8082.2	9766.4	9825.6	8407.9
50°	312.3	331.0	375.9	403.8	591.6	1267.1	3347.4	8550.1	10132.0	10138.7	8755.1
52.5°	307.2	329.3	404.6	395.4	520.4	1182.5	3608.2	9151.2	10672.9	10713.4	9298.3
55°	301.3	326.7	396.9	375.9	462.2	1081.8	3821.4	9881.5	11432.9	11545.4	10097.5
57.5°	293.6	323.4	384.3	348.7	424.1	952.1	3898.5	10416.5	11963.6	12246.2	10997.8
60°	287.0	320.8	346.9	332.6	400.2	843.0	3749.4	10310.6	11927.2	12536.5	11796.0
62.5°	280.1	323.4	316.4	322.6	389.2	772.8	3360.2	9463.3	11323.8	12237.0	12387.6
65°	272.6	300.6	298.8	313.9	386.9	744.9	2785.5	8192.9	10157.4	11289.9	12527.3
67.5°	262.4	277.5	286.0	303.1	395.4	720.3	2247.9	6758.3	8536.5	9870.4	11799.3
70°	251.4	264.2	273.4	289.5	390.2	709.2	1869.7	5329.6	6773.7	8089.6	10363.2
72.5°	237.0	248.0	256.5	271.6	385.1	703.3	1579.4	4292.1	5057.2	6009.3	8425.8
75°	220.1	230.1	236.2	251.4	369.0	644.2	1241.7	3631.8	3784.2	4180.4	6710.9
77.5°	200.6	208.3	213.2	230.1	326.7	535.8	898.1	2801.6	2938.7	3035.0	5145.1
80°	177.8	185.3	187.8	204.0	270.8	418.9	585.7	2069.3	2197.9	2220.0	3360.2
82.5°	151.4	159.1	159.1	174.2	221.6	301.3	384.3	1417.7	1443.1	1517.6	2375.0
85°	122.0	127.9	127.9	135.5	171.9	225.2	264.2	711.8	704.1	804.0	2057.5
87.5°	87.1	91.5	95.6	97.4	122.7	148.9	159.1	216.8	143.0	164.2	1321.1
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°	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0	5202.0
2.5°	5975.5	6023.7	5974.5	5939.1	5785.9	5659.8	5491.2	5404.9
5°	6423.1	6545.9	6504.4	6355.5	6035.5	5675.7	5267.0	5082.5
7.5°	6369.1	6654.3	6660.9	6382.7	5911.2	5381.3	4827.9	4565.5
10°	5947.6	6312.2	6416.5	6146.4	5646.3	5053.9	4418.9	4119.4
12.5°	5476.9	5834.1	5913.8	5820.5	5402.6	4807.4	4163.5	3869.6
15°	5091.8	5251.9	5346.5	5427.9	5193.5	4709.2	4148.9	3826.5
17.5°	4857.3	4839.6	4866.8	5008.0	5047.7	4821.7	4369.0	4013.6
20°	4772.8	4501.2	4494.2	4689.0	4979.3	5090.2	4798.9	4372.3
22.5°	4819.4	4379.2	4323.3	4554.5	5015.7	5476.9	5362.6	4876.0
25°	4980.1	4389.5	4344.4	4568.0	5147.6	5889.2	5971.1	5527.6
27.5°	5233.2	4453.8	4394.3	4623.9	5322.9	6235.3	6570.5	6159.2
30°	5473.6	4565.5	4491.7	4733.8	5482.8	6372.4	6937.9	6651.7
32.5°	5765.7	4774.6	4644.9	4936.0	5680.8	6590.7	7265.4	7059.6
35°	6051.6	5072.3	4911.6	5248.3	5901.7	6862.6	7639.5	7581.0
37.5°	6365.7	5461.8	5328.8	5652.1	6204.1	7118.8	8116.8	8192.1
40°	6700.9	5978.1	5820.5	6241.2	6673.0	7440.6	8615.4	8796.3
42.5°	7038.6	6551.0	6363.2	6789.5	7188.2	7757.8	9041.8	9310.3
45°	7425.2	7173.1	7084.2	7545.4	7683.5	8060.2	9356.7	9690.3
47.5°	7875.7	7879.0	8022.0	8206.5	8182.9	8402.0	9673.4	10029.6
50°	8401.2	8759.9	9075.9	9198.3	8697.4	8769.4	10112.6	10484.1
52.5°	9032.6	9813.8	10204.8	10124.4	9251.9	9217.8	10808.2	11110.3
55°	9822.3	10929.4	11317.9	11260.2	9889.1	9828.9	11675.1	11851.1
57.5°	10736.2	12010.2	12367.4	12108.3	10654.2	10499.5	12392.0	12429.1
60°	11539.5	12866.8	13179.9	12892.9	11426.3	11212.8	12839.6	12659.2
62.5°	11986.4	13157.1	13377.2	13068.2	11955.1	11972.8	12937.7	12535.0
65°	11786.8	12423.2	12494.2	12468.8	11818.8	12413.8	12584.9	11960.2
67.5°	10693.2	10567.9	10687.3	10852.3	10650.9	11833.1	11607.2	10708.3
70°	8766.9	8078.6	8316.7	8427.4	8518.8	10182.8	10074.4	8722.0
72.5°	6606.9	5659.8	5847.6	5824.8	6247.9	8167.5	7835.0	6413.1
75°	4681.3	3837.5	3861.1	3851.9	4359.7	6390.1	5673.4	4387.7
77.5°	3275.4	2780.3	2793.1	2845.4	2931.0	4819.4	4053.3	3205.2
80°	2252.2	2110.0	2180.2	2184.6	2031.4	3237.4	2994.5	2572.3
82.5°	1677.5	1466.7	1449.7	1474.3	1591.9	2623.0	2301.2	1784.1
85°	1373.6	868.4	698.2	875.3	1410.8	2597.6	1528.7	941.1
87.5°	773.6	412.3	186.3	345.4	562.9	1719.8	441.7	120.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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