

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: P299467

Luminaire Tested: **GLNA-AF-03-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299467  
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-7027-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9110.6 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 96  
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

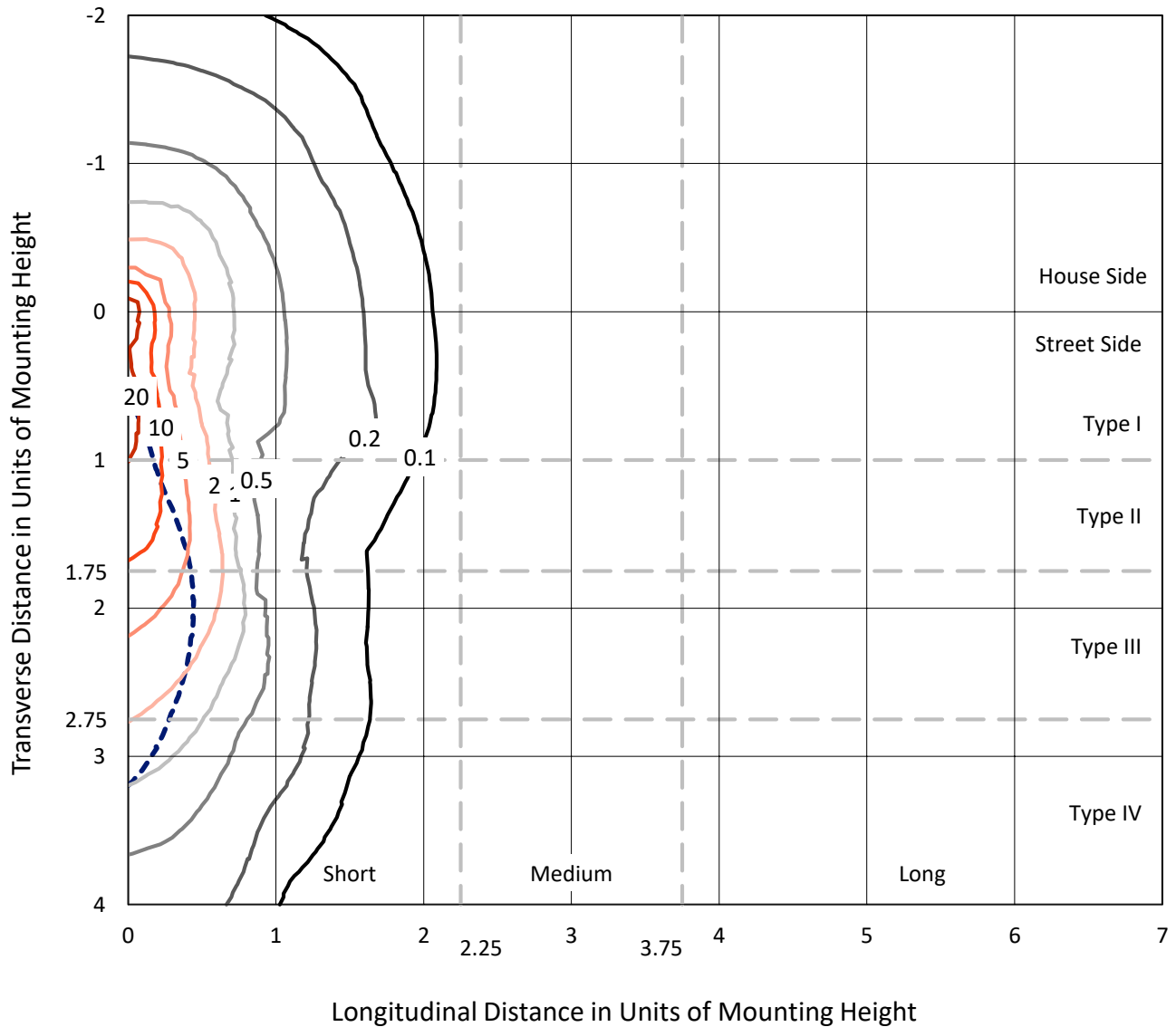


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### Iso-Footcandle Lines of Horizontal Illumination

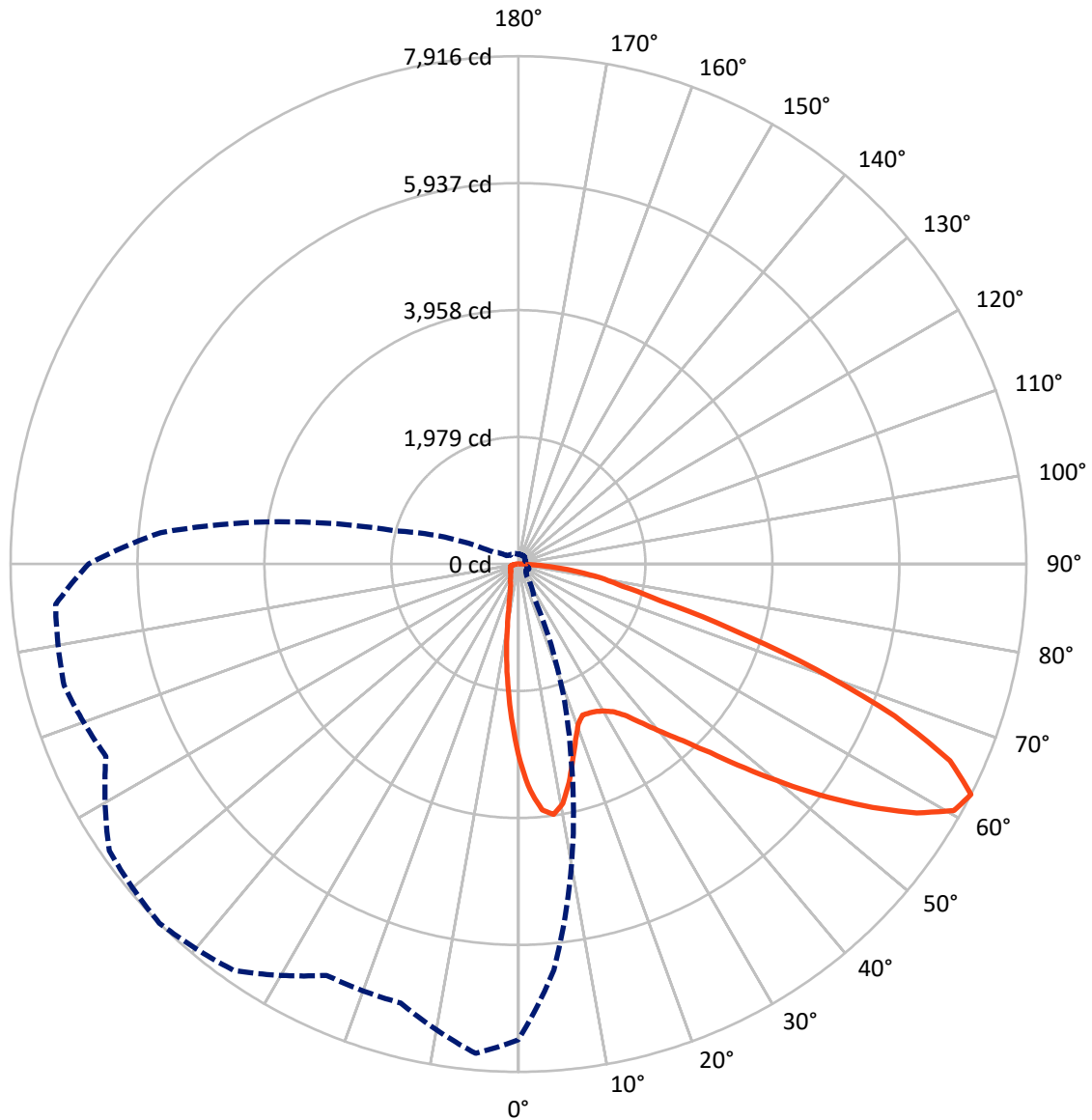
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.8 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	1507.7	0.0	1507.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	7602.9	0.0	7602.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	9110.6	0.0	9110.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.1	2.5
10°-20°	410.9	4.5
20°-30°	599.1	6.6
30°-40°	922.6	10.1
40°-50°	1357.9	14.9
50°-60°	1991.7	21.9
60°-70°	2226.5	24.4
70°-80°	1090.1	12.0
80°-90°	287.8	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°	9110.6	100.0
0°-180°	9110.6	100.0

**Coefficient of Utilization**



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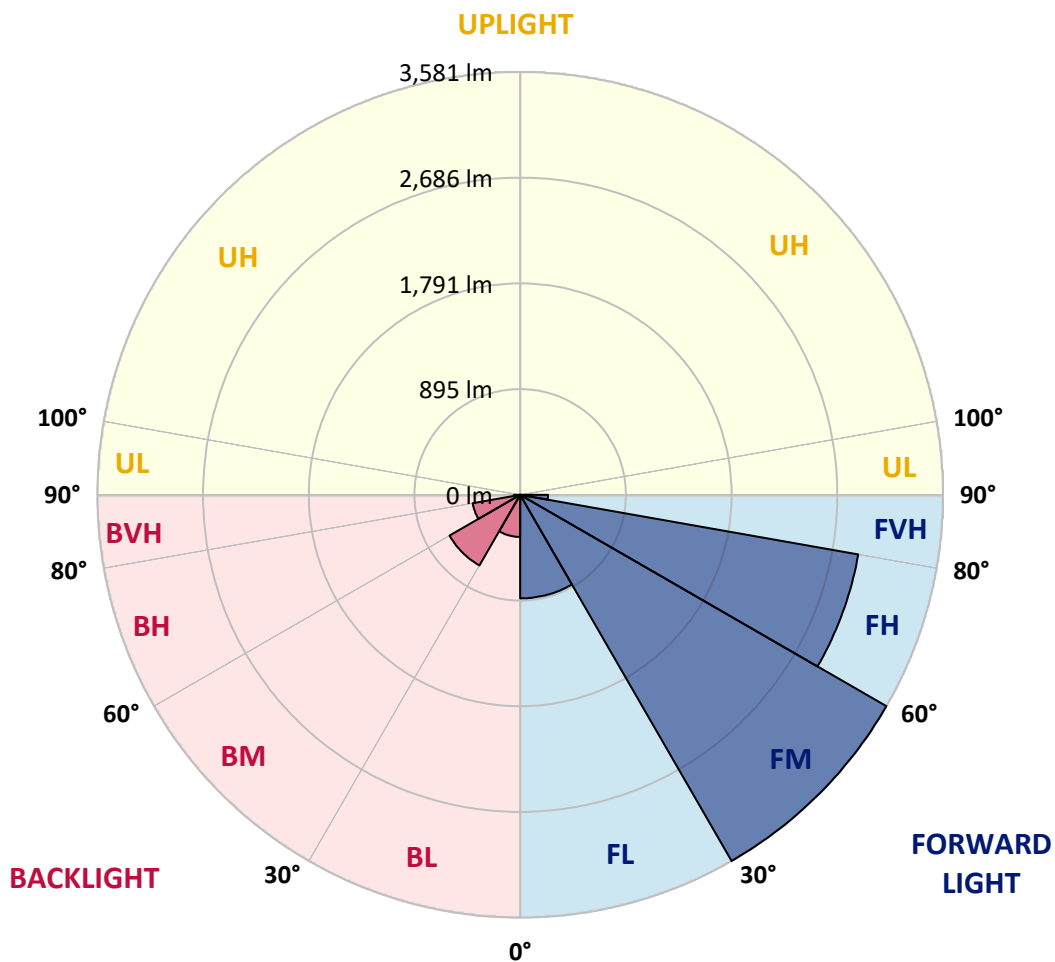
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	877.3	9.6			
FM	(30°-60°)	3581.5	39.3			
FH	(60°-80°)	2907.8	31.9			G2/5000
FVH	(80°-90°)	236.3	2.6			G3/500
BL	(0°-30°)	356.7	3.9	B1/500		
BM	(30°-60°)	690.8	7.6	B1/1000		
BH	(60°-80°)	408.7	4.5	B1/500		G1/500
BVH	(80°-90°)	51.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1
2.5°	3198.2	3133.1	3024.9	2912.2	2843.7	2763.5	2700.9	2645.8	2535.6	2514.1	2533.7
5°	3007.5	2876.8	2672.8	2467.5	2330.8	2184.0	2069.9	1978.3	1838.5	1813.9	1843.5
7.5°	2701.5	2545.2	2275.8	2013.8	1820.5	1637.1	1514.0	1415.8	1306.6	1259.6	1262.5
10°	2437.5	2261.2	1942.7	1657.8	1499.5	1375.8	1272.1	1171.4	1060.7	988.1	968.1
12.5°	2289.7	2087.0	1719.8	1465.4	1318.6	1188.5	1076.8	969.1	850.9	776.7	755.8
15°	2264.2	2043.8	1636.2	1342.3	1158.3	993.7	861.9	741.7	620.0	559.9	547.3
17.5°	2374.9	2121.0	1609.1	1232.5	1007.6	804.3	642.5	508.4	409.2	379.2	376.6
20°	2587.2	2269.2	1605.6	1129.4	858.9	620.6	447.7	350.1	306.6	297.9	298.5
22.5°	2885.2	2499.1	1648.7	1051.8	722.1	462.7	336.6	292.9	275.9	267.9	267.9
25°	3270.8	2815.7	1747.8	995.2	603.4	369.6	297.0	270.9	254.9	249.4	250.5
27.5°	3644.5	3123.6	1863.1	950.6	525.8	335.5	281.4	257.9	243.9	238.3	240.9
30°	3935.9	3397.1	1959.2	890.0	486.2	326.0	287.0	262.9	242.9	234.4	234.9
32.5°	4177.3	3636.5	2039.8	846.3	451.2	279.4	247.4	236.8	234.4	224.4	219.4
35°	4485.9	3897.4	2094.0	847.4	434.7	249.4	220.3	201.8	188.3	176.8	176.8
37.5°	4847.5	4196.9	2151.6	858.9	428.8	231.8	210.9	192.2	179.8	168.7	166.8
40°	5205.0	4490.4	2204.2	870.0	425.1	221.4	203.3	186.3	174.8	163.7	160.7
42.5°	5509.1	4731.8	2251.2	875.4	413.2	220.3	197.9	182.2	171.3	159.2	156.3
45°	5734.0	4934.0	2301.8	883.9	401.2	224.4	197.9	181.8	168.3	156.8	153.7
47.5°	5934.7	5171.5	2386.4	883.9	386.6	216.8	204.4	182.2	167.8	155.7	153.3
50°	6203.7	5497.0	2546.7	863.5	366.2	208.8	215.3	180.3	163.3	153.7	150.7
52.5°	6574.2	5914.2	2801.1	827.8	334.6	193.3	213.8	179.4	158.7	148.7	145.2
55°	7012.5	6360.9	3078.6	786.3	287.5	182.2	206.3	176.8	153.7	142.7	139.2
57.5°	7354.6	6668.4	3273.8	722.1	246.4	176.3	182.8	174.4	147.7	136.2	133.3
60°	7490.7	6656.4	3327.5	636.5	226.4	171.3	159.8	195.3	142.7	131.1	127.7
62.5°	7417.2	6348.9	3177.3	576.4	221.8	164.8	149.8	180.7	138.7	127.7	122.7
65°	7077.1	5804.0	2779.1	560.4	234.9	158.3	143.3	141.8	133.3	122.7	117.7
67.5°	6336.3	4989.7	2225.1	561.9	251.4	151.8	136.8	129.8	125.7	117.2	112.7
70°	5161.0	3945.0	1658.7	566.0	259.9	144.2	129.8	122.2	117.7	109.2	106.1
72.5°	3794.8	3040.5	1205.0	539.9	261.4	135.7	120.2	113.7	109.2	100.2	97.6
75°	2596.3	2325.8	835.9	447.3	227.9	123.7	109.6	103.7	100.7	89.6	88.1
77.5°	1896.6	1745.9	534.9	332.0	175.7	108.7	96.7	92.2	90.2	78.1	76.1
80°	1522.1	1381.2	334.6	227.4	128.7	91.1	81.1	78.7	76.6	64.6	63.1
82.5°	1055.7	925.0	214.8	147.7	96.7	70.7	64.1	63.1	60.0	49.1	47.6
85°	556.9	502.3	136.2	100.7	70.0	48.5	44.6	44.6	43.1	32.6	31.5
87.5°	71.1	115.7	69.1	52.6	38.5	21.5	21.5	21.1	22.6	18.5	16.1
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°	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1
2.5°	2487.6	2511.7	2488.6	2490.1	2515.6	2591.7	2626.3	2654.8	2685.4	2705.4	2714.4
5°	1803.0	1859.1	1878.1	1918.1	1977.2	2074.4	2112.9	2141.0	2159.6	2170.5	2175.1
7.5°	1233.1	1267.1	1305.1	1369.7	1498.4	1555.6	1581.1	1574.5	1553.6	1546.0	1538.6
10°	929.6	916.1	908.9	944.6	1048.7	1106.3	1124.4	1106.8	1095.3	1097.9	1110.3
12.5°	720.2	696.7	668.2	664.1	732.8	784.3	795.8	796.7	817.8	836.3	863.9
15°	524.9	522.3	508.4	499.9	538.8	581.0	586.0	594.9	614.0	627.5	651.5
17.5°	370.1	383.6	394.7	400.1	429.7	459.7	454.2	449.7	446.2	446.2	457.7
20°	298.5	307.5	321.6	337.5	367.7	388.6	375.1	357.1	344.0	340.1	341.6
22.5°	269.0	275.9	284.0	297.9	325.1	339.6	325.1	312.0	299.0	294.4	292.9
25°	254.0	262.9	270.5	280.9	301.0	311.0	297.0	287.5	279.4	274.0	269.9
27.5°	245.5	253.4	255.5	260.5	277.5	286.4	279.4	275.5	270.5	265.5	260.5
30°	236.4	234.9	231.4	231.8	245.5	254.4	254.0	254.9	254.4	252.9	252.0
32.5°	215.9	212.9	209.8	212.9	225.3	233.3	233.9	235.9	235.9	235.5	239.4
35°	179.8	185.3	188.8	197.9	212.9	219.8	216.8	211.8	202.9	197.3	196.8
37.5°	166.3	167.2	173.3	185.7	202.4	208.8	204.4	192.9	186.8	185.7	187.2
40°	159.8	160.7	164.2	175.7	192.2	198.8	194.8	186.3	180.7	180.3	182.8
42.5°	155.3	156.3	158.3	166.3	179.8	187.9	188.3	182.2	175.7	176.3	178.8
45°	152.7	153.3	152.7	156.8	169.2	178.8	182.8	178.8	173.3	174.4	177.2
47.5°	152.2	150.7	148.7	149.8	162.8	172.2	177.2	175.7	173.3	174.4	176.8
50°	150.3	146.8	144.2	143.7	156.8	166.8	171.3	171.3	172.2	174.4	176.8
52.5°	144.2	140.2	140.2	138.7	152.7	162.2	165.3	165.7	167.2	170.7	174.4
55°	136.8	135.2	136.8	134.2	149.8	158.7	160.3	161.3	162.2	165.3	170.3
57.5°	130.2	128.3	131.8	130.7	147.2	155.3	155.3	157.2	157.2	161.3	165.3
60°	126.8	122.7	124.2	125.2	143.7	152.2	151.3	153.3	154.2	157.8	160.7
62.5°	122.2	118.7	118.7	121.1	139.8	147.7	147.2	148.7	152.7	153.7	156.8
65°	116.7	115.2	113.7	116.7	135.7	142.7	143.3	145.2	148.7	149.8	152.2
67.5°	111.1	111.7	108.7	111.7	132.2	137.7	137.7	141.8	143.3	145.2	147.7
70°	105.2	105.7	103.1	106.7	129.8	132.2	131.8	137.2	138.3	139.8	142.2
72.5°	97.6	97.6	96.7	101.7	125.7	126.8	125.7	130.2	130.7	132.2	133.3
75°	89.6	89.6	88.7	95.7	123.3	120.7	117.7	121.1	122.2	123.3	123.3
77.5°	79.1	80.2	80.2	88.7	114.6	118.3	108.1	110.2	111.7	112.2	110.7
80°	66.1	68.7	69.6	80.7	96.1	109.2	96.7	98.1	98.7	98.7	96.7
82.5°	50.6	55.0	57.6	69.6	73.7	91.6	84.1	85.7	84.1	81.1	80.2
85°	35.0	41.1	44.1	53.1	55.6	70.7	70.0	70.0	67.2	63.1	62.6
87.5°	19.1	22.6	24.6	31.5	38.1	47.6	51.5	50.0	47.6	45.0	45.6
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°	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1
2.5°	2761.5	2829.6	2938.3	3021.4	3105.1	3185.8	3272.9	3339.5	3396.0	3418.2	3485.2
5°	2220.7	2305.8	2408.4	2593.7	2725.0	2869.6	3037.0	3258.4	3343.4	3461.2	3653.9
7.5°	1570.1	1647.2	1812.4	1962.2	2148.1	2352.9	2578.7	2884.2	2995.9	3184.7	3498.7
10°	1172.4	1262.1	1394.7	1521.0	1684.8	1894.1	2153.6	2495.1	2630.8	2835.7	3197.3
12.5°	944.6	1050.2	1190.9	1309.7	1436.4	1584.1	1836.1	2210.6	2392.5	2571.7	2937.3
15°	725.6	836.3	967.2	1117.9	1257.5	1416.9	1680.8	2090.5	2299.7	2486.7	2798.5
17.5°	502.3	596.9	761.7	918.9	1097.9	1301.6	1637.8	2116.0	2365.8	2581.3	2822.6
20°	356.1	410.1	545.4	727.8	950.6	1206.4	1629.7	2250.1	2575.2	2821.1	2976.8
22.5°	299.4	319.5	398.1	565.4	822.8	1135.3	1657.8	2438.4	2857.7	3171.7	3222.7
25°	272.9	285.0	326.0	443.8	709.1	1083.8	1752.4	2718.9	3207.3	3522.3	3513.2
27.5°	258.4	270.9	297.9	374.6	623.6	1051.8	1847.0	3051.6	3606.9	3902.9	3790.7
30°	254.0	270.9	299.4	353.1	562.5	1001.1	1924.6	3343.4	3914.4	4159.9	3917.0
32.5°	250.5	252.9	265.9	304.4	504.3	942.0	1977.2	3605.4	4215.4	4404.3	4098.8
35°	202.4	214.8	235.9	272.9	470.3	906.5	1977.2	3831.3	4511.9	4651.1	4272.1
37.5°	194.8	205.9	224.4	255.9	451.2	888.9	1937.7	4049.2	4814.9	4931.2	4414.8
40°	190.9	199.8	217.4	242.9	443.2	868.9	1880.0	4241.5	5110.8	5211.5	4548.0
42.5°	187.9	195.9	212.4	234.9	432.7	846.9	1833.5	4395.6	5367.8	5450.9	4675.2
45°	186.3	194.8	212.9	238.9	411.6	817.8	1818.0	4562.4	5579.2	5650.7	4812.9
47.5°	186.3	196.3	215.3	247.4	386.6	787.8	1866.5	4782.4	5779.0	5814.0	4975.1
50°	184.8	195.9	222.4	238.9	350.1	749.7	1980.7	5059.3	5995.3	5999.3	5180.6
52.5°	181.8	194.8	239.4	233.9	307.9	699.7	2135.1	5415.0	6315.4	6339.4	5502.0
55°	178.3	193.3	234.9	222.4	273.5	640.1	2261.2	5847.1	6765.1	6831.7	5974.9
57.5°	173.8	191.3	227.4	206.3	250.9	563.4	2306.8	6163.6	7079.1	7246.3	6507.7
60°	169.8	189.8	205.3	196.8	236.8	498.8	2218.6	6101.0	7057.6	7418.1	6979.9
62.5°	165.7	191.3	187.2	190.9	230.3	457.3	1988.3	5599.6	6700.5	7240.9	7330.0
65°	161.3	177.8	176.8	185.7	228.9	440.7	1648.2	4847.9	6010.4	6680.5	7412.7
67.5°	155.3	164.2	169.2	179.4	233.9	426.2	1330.1	3999.0	5051.2	5840.5	6981.9
70°	148.7	156.3	161.8	171.3	230.9	419.7	1106.3	3153.6	4008.1	4786.8	6132.1
72.5°	140.2	146.8	151.8	160.7	227.9	416.2	934.6	2539.7	2992.4	3555.8	4985.7
75°	130.2	136.2	139.8	148.7	218.3	381.2	734.7	2149.0	2239.2	2473.6	3971.0
77.5°	118.7	123.3	126.1	136.2	193.3	317.0	531.4	1657.8	1738.9	1795.9	3044.4
80°	105.2	109.6	111.1	120.7	160.3	247.9	346.6	1224.4	1300.6	1313.6	1988.3
82.5°	89.6	94.2	94.2	103.1	131.1	178.3	227.4	838.9	853.9	898.0	1405.3
85°	72.2	75.7	75.7	80.2	101.7	133.3	156.3	421.2	416.6	475.8	1217.5
87.5°	51.5	54.1	56.6	57.6	72.6	88.1	94.2	128.3	84.6	97.2	781.7
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°	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1	3078.1
2.5°	3535.8	3564.3	3535.2	3514.3	3423.6	3349.0	3249.3	3198.2
5°	3800.7	3873.3	3848.8	3760.7	3571.3	3358.4	3116.6	3007.5
7.5°	3768.7	3937.5	3941.4	3776.8	3497.8	3184.2	2856.7	2701.5
10°	3519.3	3735.1	3796.8	3637.0	3341.0	2990.5	2614.8	2437.5
12.5°	3240.8	3452.1	3499.3	3444.1	3196.8	2844.6	2463.6	2289.7
15°	3012.9	3107.7	3163.6	3211.8	3073.1	2786.5	2455.0	2264.2
17.5°	2874.2	2863.7	2879.8	2963.3	2986.8	2853.1	2585.2	2374.9
20°	2824.1	2663.4	2659.3	2774.6	2946.4	3012.0	2839.6	2587.2
22.5°	2851.7	2591.3	2558.2	2695.0	2967.9	3240.8	3173.2	2885.2
25°	2946.8	2597.3	2570.6	2703.0	3046.0	3484.7	3533.3	3270.8
27.5°	3096.6	2635.4	2600.2	2736.1	3149.7	3689.6	3887.9	3644.5
30°	3238.8	2701.5	2657.8	2801.1	3244.3	3770.7	4105.3	3935.9
32.5°	3411.7	2825.2	2748.5	2920.7	3361.5	3899.9	4299.1	4177.3
35°	3580.9	3001.4	2906.3	3105.5	3492.2	4060.7	4520.4	4485.9
37.5°	3766.7	3231.8	3153.2	3344.5	3671.1	4212.3	4802.9	4847.5
40°	3965.1	3537.3	3444.1	3693.1	3948.5	4402.8	5097.9	5205.0
42.5°	4164.9	3876.4	3765.2	4017.5	4253.4	4590.5	5350.2	5509.1
45°	4393.7	4244.5	4191.9	4464.8	4546.5	4769.4	5536.6	5734.0
47.5°	4660.2	4662.2	4746.8	4856.0	4842.0	4971.6	5724.0	5934.7
50°	4971.2	5183.4	5370.4	5442.9	5146.4	5189.1	5983.8	6203.7
52.5°	5344.8	5807.0	6038.4	5990.8	5474.5	5454.4	6395.5	6574.2
55°	5812.0	6467.2	6697.0	6662.9	5851.6	5816.0	6908.4	7012.5
57.5°	6352.9	7106.7	7318.0	7164.8	6304.3	6212.8	7332.6	7354.6
60°	6828.2	7613.5	7798.8	7629.0	6761.2	6634.9	7597.5	7490.7
62.5°	7092.6	7785.3	7915.6	7732.7	7074.1	7084.6	7655.5	7417.2
65°	6974.5	7351.1	7393.1	7378.1	6993.4	7345.5	7446.8	7077.1
67.5°	6327.4	6253.2	6323.9	6421.5	6302.4	7001.9	6868.2	6336.3
70°	5187.5	4780.3	4921.1	4986.6	5040.8	6025.4	5961.2	5161.0
72.5°	3909.4	3349.0	3460.2	3446.7	3697.0	4832.9	4636.1	3794.8
75°	2770.0	2270.8	2284.7	2279.2	2579.7	3781.1	3357.1	2596.3
77.5°	1938.1	1645.2	1652.8	1683.7	1734.3	2851.7	2398.4	1896.6
80°	1332.7	1248.6	1290.1	1292.7	1202.0	1915.7	1771.9	1522.1
82.5°	992.6	867.8	857.8	872.4	942.0	1552.1	1361.7	1055.7
85°	812.8	513.8	413.2	517.9	834.8	1537.1	904.5	556.9
87.5°	457.7	243.9	110.2	204.4	333.1	1017.6	261.4	71.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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