

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: P299468

Luminaire Tested: **GLNA-AF-03-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299468  
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-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K 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: 10142.8 lumens  
Efficiency: N/A  
Efficacy: 105.7 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

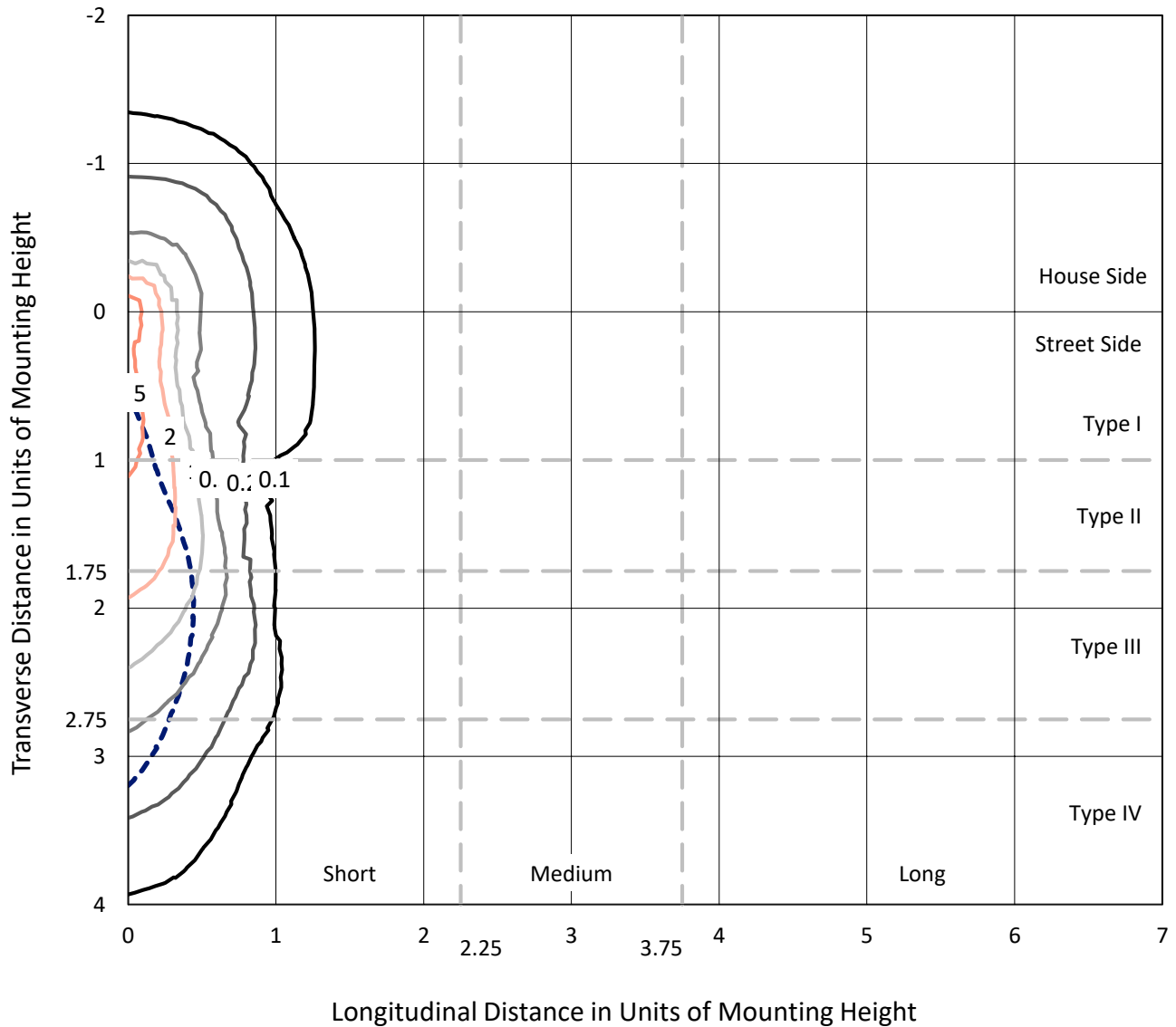


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### Iso-Footcandle Lines of Horizontal Illumination

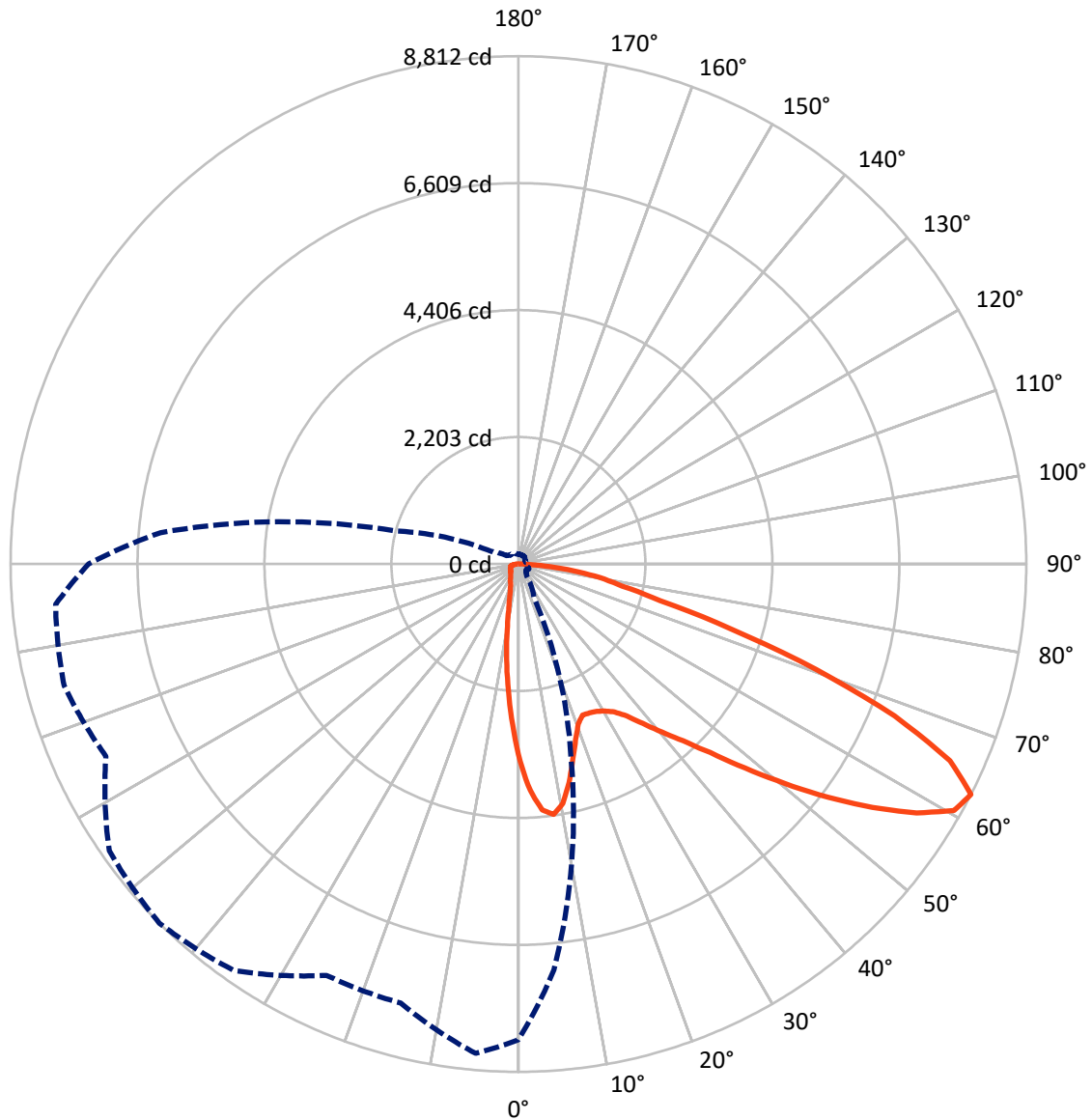
× Max cd  
 - - - 1/2 Max cd



Based on 20 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	1678.5	0.0	1678.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	8464.3	0.0	8464.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	10142.8	0.0	10142.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.5	2.5
10°-20°	457.4	4.5
20°-30°	666.9	6.6
30°-40°	1027.2	10.1
40°-50°	1511.7	14.9
50°-60°	2217.4	21.9
60°-70°	2478.7	24.4
70°-80°	1213.6	12.0
80°-90°	320.4	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°	10142.8	100.0
0°-180°	10142.8	100.0

**Coefficient of Utilization**



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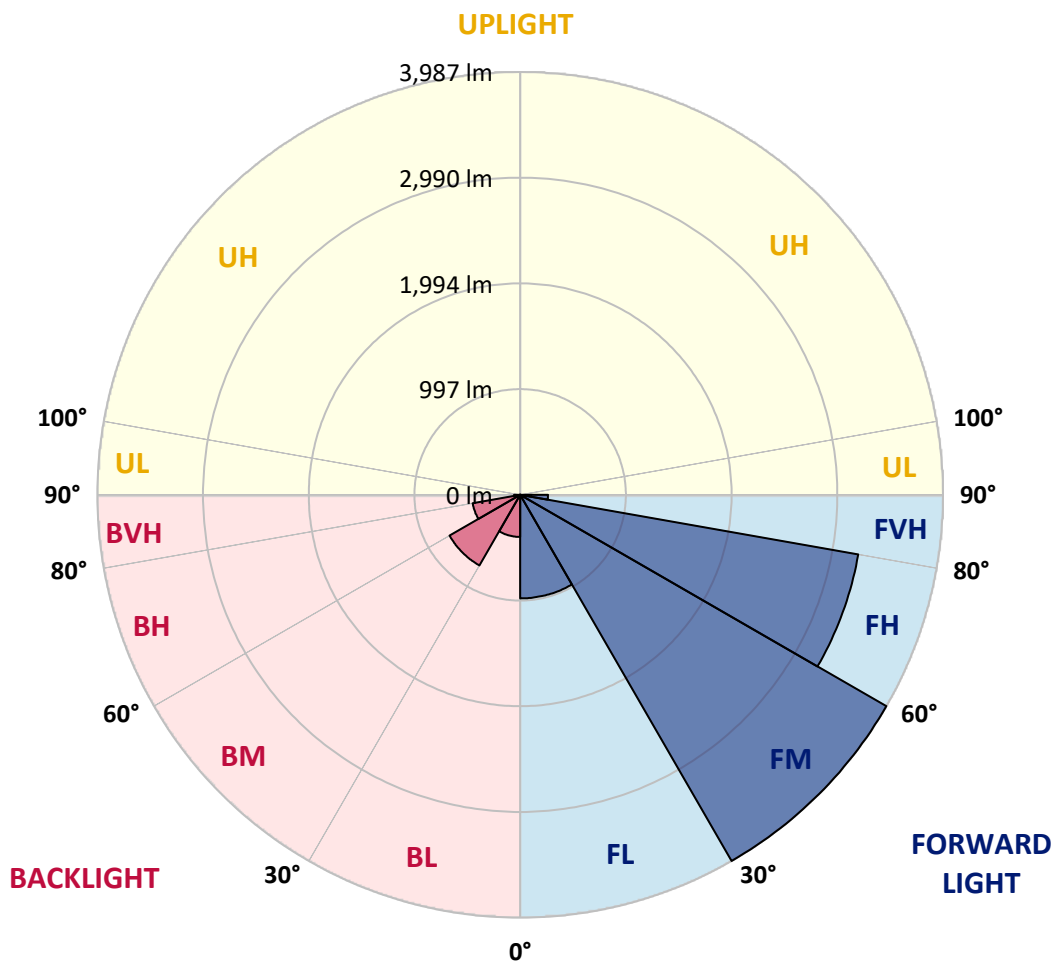
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	976.7	9.6			
FM	(30°-60°)	3987.2	39.3			
FH	(60°-80°)	3237.2	31.9			G2/5000
FVH	(80°-90°)	263.1	2.6			G3/500
BL	(0°-30°)	397.1	3.9	B1/500		
BM	(30°-60°)	769.1	7.6	B1/1000		
BH	(60°-80°)	455.0	4.5	B1/500		G1/500
BVH	(80°-90°)	57.3	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°	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9
2.5°	3560.5	3488.1	3367.6	3242.2	3165.9	3076.6	3006.9	2945.6	2822.9	2798.9	2820.7
5°	3348.2	3202.7	2975.7	2747.1	2594.9	2431.5	2304.4	2202.4	2046.8	2019.5	2052.4
7.5°	3007.6	2833.5	2533.6	2241.9	2026.7	1822.6	1685.6	1576.2	1454.7	1402.3	1405.5
10°	2713.7	2517.4	2162.8	1845.6	1669.4	1531.6	1416.2	1304.1	1180.9	1100.0	1077.8
12.5°	2549.1	2323.5	1914.6	1631.4	1468.0	1323.2	1198.8	1078.9	947.3	864.7	841.4
15°	2520.8	2275.3	1821.6	1494.3	1289.6	1106.3	959.6	825.7	690.2	623.4	609.3
17.5°	2644.0	2361.3	1791.4	1372.1	1121.8	895.5	715.3	566.0	455.6	422.2	419.3
20°	2880.3	2526.3	1787.5	1257.3	956.2	690.9	498.4	389.7	341.3	331.7	332.4
22.5°	3212.2	2782.2	1835.5	1170.9	804.0	515.2	374.7	326.1	307.2	298.3	298.3
25°	3641.4	3134.7	1945.9	1108.0	671.8	411.5	330.7	301.6	283.7	277.7	278.8
27.5°	4057.5	3477.5	2074.1	1058.3	585.4	373.5	313.3	287.1	271.6	265.3	268.2
30°	4381.9	3782.0	2181.2	990.8	541.3	362.9	319.5	292.7	270.4	261.0	261.5
32.5°	4650.6	4048.5	2271.0	942.2	502.3	311.1	275.5	263.7	261.0	249.8	244.2
35°	4994.1	4339.0	2331.2	943.4	483.9	277.7	245.3	224.7	209.6	196.8	196.8
37.5°	5396.7	4672.4	2395.4	956.2	477.3	258.1	234.8	214.0	200.2	187.9	185.7
40°	5794.7	4999.2	2453.9	968.5	473.3	246.4	226.4	207.4	194.6	182.3	178.9
42.5°	6133.3	5267.9	2506.3	974.6	460.0	245.3	220.3	202.9	190.7	177.2	174.0
45°	6383.6	5493.1	2562.6	984.1	446.6	249.8	220.3	202.4	187.4	174.5	171.2
47.5°	6607.1	5757.4	2656.8	984.1	430.4	241.4	227.5	202.9	186.9	173.4	170.7
50°	6906.5	6119.8	2835.2	961.3	407.6	232.4	239.7	200.7	181.8	171.2	167.8
52.5°	7319.1	6584.3	3118.5	921.6	372.5	215.2	238.0	199.7	176.7	165.6	161.7
55°	7807.1	7081.6	3427.4	875.4	320.0	202.9	229.7	196.8	171.2	158.8	155.0
57.5°	8187.9	7423.9	3644.8	804.0	274.3	196.3	203.6	194.1	164.4	151.6	148.4
60°	8339.4	7410.6	3704.5	708.6	252.0	190.7	177.9	217.4	158.8	146.0	142.1
62.5°	8257.6	7068.3	3537.2	641.8	246.9	183.5	166.8	201.2	154.4	142.1	136.6
65°	7879.0	6461.6	3094.0	623.9	261.5	176.2	159.5	157.8	148.4	136.6	131.0
67.5°	7054.2	5555.0	2477.2	625.6	279.9	169.0	152.3	144.5	139.9	130.5	125.4
70°	5745.8	4392.0	1846.6	630.1	289.3	160.5	144.5	136.0	131.0	121.5	118.2
72.5°	4224.7	3385.0	1341.6	601.1	291.0	151.1	133.9	126.6	121.5	111.6	108.7
75°	2890.4	2589.3	930.6	497.9	253.7	137.7	122.0	115.5	112.1	99.8	98.1
77.5°	2111.4	1943.7	595.5	369.7	195.6	121.0	107.7	102.6	100.4	86.9	84.7
80°	1694.5	1537.7	372.5	253.2	143.3	101.4	90.3	87.6	85.2	71.9	70.2
82.5°	1175.3	1029.8	239.2	164.4	107.7	78.7	71.4	70.2	66.8	54.7	53.0
85°	620.0	559.2	151.6	112.1	78.0	54.0	49.6	49.6	47.9	36.3	35.1
87.5°	79.2	128.8	77.0	58.6	42.9	24.0	24.0	23.5	25.2	20.6	17.9
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9
2.5°	2769.4	2796.2	2770.6	2772.3	2800.6	2885.4	2923.9	2955.6	2989.7	3012.0	3021.9
5°	2007.3	2069.8	2090.9	2135.4	2201.2	2309.4	2352.3	2383.5	2404.3	2416.5	2421.5
7.5°	1372.8	1410.6	1453.0	1524.9	1668.2	1731.8	1760.2	1752.9	1729.6	1721.2	1712.9
10°	1034.9	1019.9	1011.9	1051.6	1167.5	1231.7	1251.8	1232.2	1219.4	1222.2	1236.1
12.5°	801.8	775.6	743.9	739.3	815.8	873.2	886.0	887.0	910.5	931.1	961.8
15°	584.4	581.5	566.0	556.5	599.9	646.8	652.4	662.3	683.6	698.6	725.3
17.5°	412.0	427.0	439.4	445.4	478.4	511.8	505.7	500.6	496.8	496.8	509.6
20°	332.4	342.3	358.0	375.7	409.3	432.6	417.6	397.5	383.0	378.6	380.3
22.5°	299.4	307.2	316.2	331.7	361.9	378.1	361.9	347.4	332.9	327.8	326.1
25°	282.7	292.7	301.1	312.8	335.1	346.2	330.7	320.0	311.1	305.0	300.5
27.5°	273.3	282.1	284.4	290.0	308.9	318.9	311.1	306.7	301.1	295.6	290.0
30°	263.2	261.5	257.6	258.1	273.3	283.2	282.7	283.7	283.2	281.5	280.5
32.5°	240.4	237.0	233.6	237.0	250.8	259.8	260.4	262.6	262.6	262.1	266.5
35°	200.2	206.3	210.1	220.3	237.0	244.8	241.4	235.8	225.8	219.6	219.1
37.5°	185.2	186.2	192.9	206.8	225.3	232.4	227.5	214.7	208.0	206.8	208.5
40°	177.9	178.9	182.8	195.6	214.0	221.3	216.9	207.4	201.2	200.7	203.6
42.5°	172.8	174.0	176.2	185.2	200.2	209.1	209.6	202.9	195.6	196.3	199.0
45°	170.0	170.7	170.0	174.5	188.4	199.0	203.6	199.0	192.9	194.1	197.3
47.5°	169.5	167.8	165.6	166.8	181.3	191.8	197.3	195.6	192.9	194.1	196.8
50°	167.3	163.4	160.5	160.0	174.5	185.7	190.7	190.7	191.8	194.1	196.8
52.5°	160.5	156.1	156.1	154.4	170.0	180.6	184.0	184.5	186.2	190.1	194.1
55°	152.3	150.6	152.3	149.4	166.8	176.7	178.4	179.6	180.6	184.0	189.6
57.5°	145.0	142.8	146.7	145.5	163.9	172.8	172.8	175.0	175.0	179.6	184.0
60°	141.1	136.6	138.2	139.4	160.0	169.5	168.5	170.7	171.7	175.7	178.9
62.5°	136.0	132.2	132.2	134.9	155.6	164.4	163.9	165.6	170.0	171.2	174.5
65°	130.0	128.3	126.6	130.0	151.1	158.8	159.5	161.7	165.6	166.8	169.5
67.5°	123.7	124.4	121.0	124.4	147.2	153.3	153.3	157.8	159.5	161.7	164.4
70°	117.1	117.6	114.8	118.8	144.5	147.2	146.7	152.8	153.9	155.6	158.3
72.5°	108.7	108.7	107.7	113.3	139.9	141.1	139.9	145.0	145.5	147.2	148.4
75°	99.8	99.8	98.7	106.5	137.2	134.4	131.0	134.9	136.0	137.2	137.2
77.5°	88.1	89.3	89.3	98.7	127.6	131.7	120.4	122.7	124.4	124.9	123.2
80°	73.6	76.5	77.5	89.8	107.0	121.5	107.7	109.2	109.9	109.9	107.7
82.5°	56.4	61.3	64.1	77.5	82.0	102.0	93.7	95.4	93.7	90.3	89.3
85°	39.0	45.7	49.1	59.1	61.9	78.7	78.0	78.0	74.8	70.2	69.7
87.5°	21.3	25.2	27.3	35.1	42.4	53.0	57.4	55.7	53.0	50.1	50.8
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°	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9
2.5°	3074.4	3150.2	3271.2	3363.7	3456.9	3546.7	3643.8	3717.9	3780.8	3805.5	3880.1
5°	2472.3	2567.0	2681.3	2887.6	3033.7	3194.8	3381.1	3627.6	3722.2	3853.4	4067.9
7.5°	1748.0	1833.8	2017.8	2184.5	2391.5	2619.5	2870.9	3211.0	3335.4	3545.5	3895.1
10°	1305.3	1405.0	1552.7	1693.3	1875.6	2108.7	2397.6	2777.8	2928.9	3157.0	3559.5
12.5°	1051.6	1169.2	1325.9	1458.0	1599.2	1763.6	2044.1	2461.0	2663.6	2863.1	3270.0
15°	807.8	931.1	1076.7	1244.5	1400.0	1577.4	1871.3	2327.3	2560.3	2768.4	3115.6
17.5°	559.2	664.5	848.0	1023.1	1222.2	1449.1	1823.3	2355.7	2633.9	2873.7	3142.4
20°	396.5	456.6	607.2	810.2	1058.3	1343.1	1814.4	2505.1	2867.0	3140.8	3314.1
22.5°	333.4	355.6	443.3	629.4	916.0	1263.9	1845.6	2714.7	3181.4	3531.0	3587.9
25°	303.8	317.3	362.9	494.1	789.5	1206.5	1950.9	3027.0	3570.7	3921.4	3911.3
27.5°	287.6	301.6	331.7	417.1	694.3	1170.9	2056.2	3397.3	4015.6	4345.1	4220.2
30°	282.7	301.6	333.4	393.1	626.2	1114.5	2142.7	3722.2	4357.9	4631.2	4360.8
32.5°	278.8	281.5	296.1	338.9	561.4	1048.7	2201.2	4013.9	4693.0	4903.3	4563.2
35°	225.3	239.2	262.6	303.8	523.6	1009.2	2201.2	4265.4	5023.1	5178.1	4756.1
37.5°	216.9	229.2	249.8	284.9	502.3	989.6	2157.2	4508.0	5360.4	5489.9	4914.9
40°	212.5	222.5	242.1	270.4	493.4	967.4	2093.0	4722.0	5689.9	5802.0	5063.3
42.5°	209.1	218.1	236.5	261.5	481.7	942.9	2041.2	4893.7	5976.0	6068.5	5204.9
45°	207.4	216.9	237.0	266.0	458.3	910.5	2024.0	5079.4	6211.3	6291.0	5358.2
47.5°	207.4	218.6	239.7	275.5	430.4	877.1	2078.0	5324.3	6433.8	6472.7	5538.8
50°	205.8	218.1	247.6	266.0	389.7	834.7	2205.1	5632.5	6674.6	6679.0	5767.5
52.5°	202.4	216.9	266.5	260.4	342.8	779.0	2377.0	6028.5	7031.0	7057.6	6125.4
55°	198.5	215.2	261.5	247.6	304.5	712.6	2517.4	6509.5	7531.6	7605.7	6651.8
57.5°	193.4	213.0	253.2	229.7	279.4	627.2	2568.2	6862.0	7881.2	8067.3	7245.0
60°	189.0	211.3	228.5	219.1	263.7	555.3	2470.0	6792.3	7857.2	8258.6	7770.8
62.5°	184.5	213.0	208.5	212.5	256.4	509.1	2213.6	6234.1	7459.7	8061.3	8160.5
65°	179.6	198.0	196.8	206.8	254.9	490.7	1835.0	5397.2	6691.3	7437.4	8252.5
67.5°	172.8	182.8	188.4	199.7	260.4	474.5	1480.8	4452.1	5623.5	6502.3	7773.0
70°	165.6	174.0	180.1	190.7	257.1	467.2	1231.7	3510.9	4462.2	5329.2	6826.9
72.5°	156.1	163.4	169.0	178.9	253.7	463.3	1040.4	2827.5	3331.5	3958.7	5550.6
75°	145.0	151.6	155.6	165.6	243.1	424.3	818.0	2392.5	2492.9	2753.9	4420.9
77.5°	132.2	137.2	140.4	151.6	215.2	352.9	591.6	1845.6	1935.9	1999.4	3389.4
80°	117.1	122.0	123.7	134.4	178.4	276.0	385.9	1363.2	1447.9	1462.4	2213.6
82.5°	99.8	104.8	104.8	114.8	146.0	198.5	253.2	933.9	950.6	999.8	1564.6
85°	80.3	84.2	84.2	89.3	113.3	148.4	174.0	468.9	463.8	529.7	1355.4
87.5°	57.4	60.3	63.0	64.1	80.9	98.1	104.8	142.8	94.2	108.2	870.3
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9	3426.9
2.5°	3936.4	3968.2	3935.8	3912.5	3811.5	3728.5	3617.4	3560.5
5°	4231.3	4312.2	4284.8	4186.8	3975.9	3739.0	3469.7	3348.2
7.5°	4195.7	4383.6	4388.0	4204.7	3894.1	3545.0	3180.4	3007.6
10°	3918.0	4158.2	4226.9	4049.0	3719.5	3329.3	2911.0	2713.7
12.5°	3608.0	3843.3	3895.8	3834.3	3559.0	3166.9	2742.7	2549.1
15°	3354.3	3459.8	3522.1	3575.7	3421.3	3102.3	2733.1	2520.8
17.5°	3199.8	3188.2	3206.1	3299.1	3325.2	3176.4	2878.1	2644.0
20°	3144.1	2965.2	2960.6	3088.9	3280.2	3353.3	3161.3	2880.3
22.5°	3174.8	2884.9	2848.1	3000.3	3304.1	3608.0	3532.7	3212.2
25°	3280.7	2891.6	2861.9	3009.3	3391.1	3879.6	3933.6	3641.4
27.5°	3447.5	2934.0	2894.8	3046.1	3506.5	4107.6	4328.4	4057.5
30°	3605.8	3007.6	2959.0	3118.5	3611.9	4197.9	4570.4	4381.9
32.5°	3798.2	3145.3	3059.9	3251.6	3742.3	4341.7	4786.2	4650.6
35°	3986.6	3341.4	3235.6	3457.4	3887.8	4520.8	5032.6	4994.1
37.5°	4193.5	3598.0	3510.4	3723.4	4087.0	4689.6	5347.1	5396.7
40°	4414.3	3938.1	3834.3	4111.5	4395.9	4901.6	5675.5	5794.7
42.5°	4636.8	4315.6	4191.8	4472.7	4735.4	5110.6	5956.4	6133.3
45°	4891.5	4725.4	4666.8	4970.6	5061.6	5309.8	6163.9	6383.6
47.5°	5188.2	5190.4	5284.6	5406.1	5390.6	5534.9	6372.5	6607.1
50°	5534.4	5770.7	5978.9	6059.5	5729.5	5777.0	6661.8	6906.5
52.5°	5950.3	6465.0	6722.6	6669.6	6094.8	6072.4	7120.1	7319.1
55°	6470.6	7199.9	7455.8	7417.8	6514.6	6474.9	7691.1	7807.1
57.5°	7072.6	7911.9	8147.2	7976.5	7018.6	6916.7	8163.4	8187.9
60°	7601.8	8476.2	8682.4	8493.4	7527.2	7386.6	8458.3	8339.4
62.5°	7896.2	8667.4	8812.4	8608.8	7875.6	7887.2	8522.9	8257.6
65°	7764.7	8184.0	8230.7	8214.0	7785.8	8177.7	8290.5	7879.0
67.5°	7044.3	6961.7	7040.4	7149.1	7016.4	7795.2	7646.4	7054.2
70°	5775.3	5321.9	5478.7	5551.6	5611.9	6708.0	6636.6	5745.8
72.5°	4352.4	3728.5	3852.2	3837.2	4115.9	5380.5	5161.4	4224.7
75°	3083.9	2528.0	2543.6	2537.5	2872.0	4209.6	3737.4	2890.4
77.5°	2157.7	1831.6	1840.0	1874.5	1930.8	3174.8	2670.2	2111.4
80°	1483.7	1390.0	1436.3	1439.1	1338.2	2132.7	1972.7	1694.5
82.5°	1105.1	966.2	955.0	971.2	1048.7	1727.9	1515.9	1175.3
85°	904.9	572.0	460.0	576.6	929.4	1711.2	1007.0	620.0
87.5°	509.6	271.6	122.7	227.5	370.8	1132.9	291.0	79.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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