

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: P299408

Luminaire Tested: **GLNA-AF-03-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299408  
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-7030-800  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12438.8 lumens  
Efficiency: N/A  
Efficacy: 100.3 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

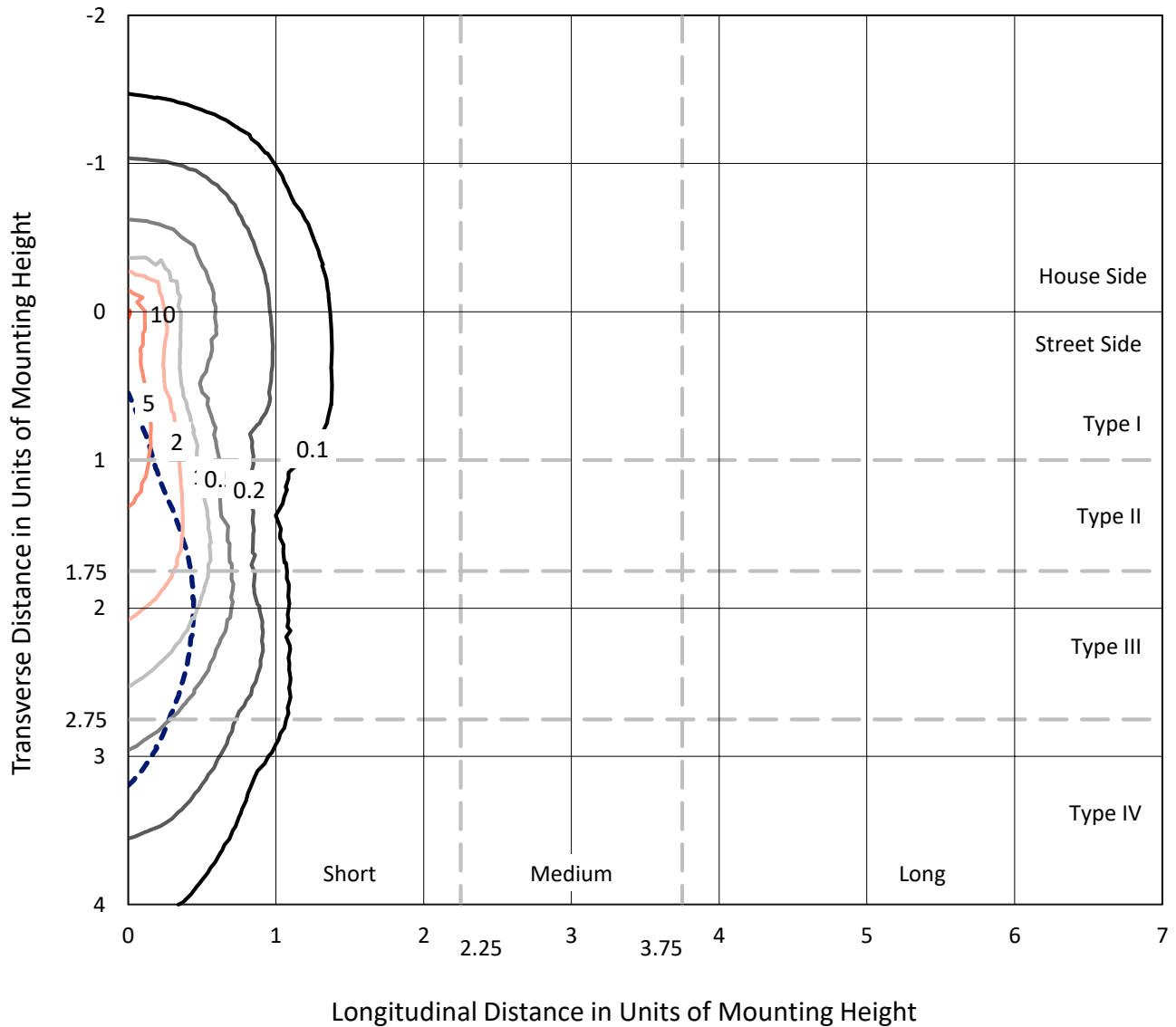
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

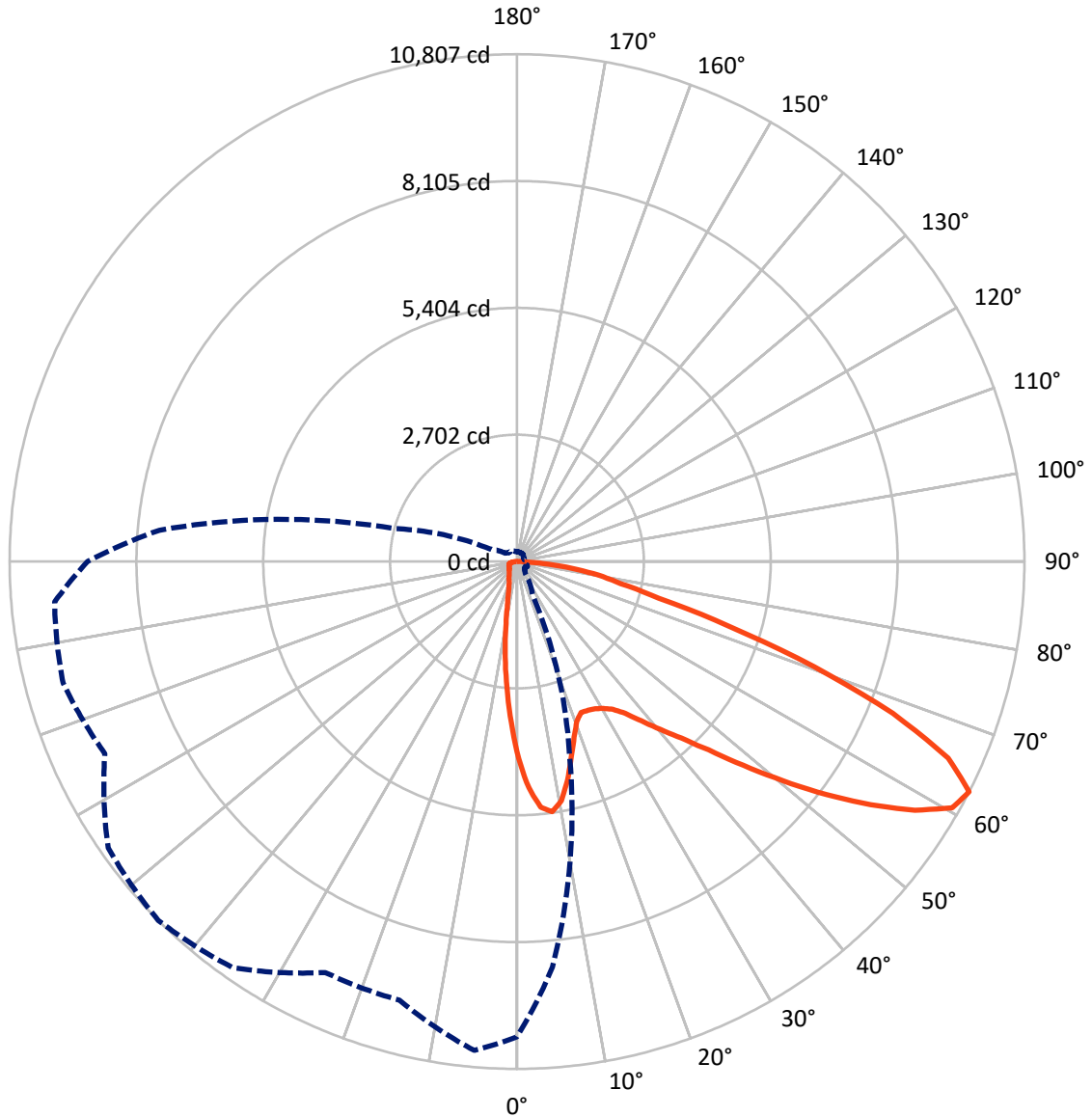
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 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	2058.5	0.0	2058.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	10380.3	0.0	10380.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	12438.8	0.0	12438.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.9	2.5
10°-20°	561.0	4.5
20°-30°	817.9	6.6
30°-40°	1259.7	10.1
40°-50°	1853.9	14.9
50°-60°	2719.3	21.9
60°-70°	3039.8	24.4
70°-80°	1488.3	12.0
80°-90°	392.9	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°	12438.8	100.0
0°-180°	12438.8	100.0

**Coefficient of Utilization**



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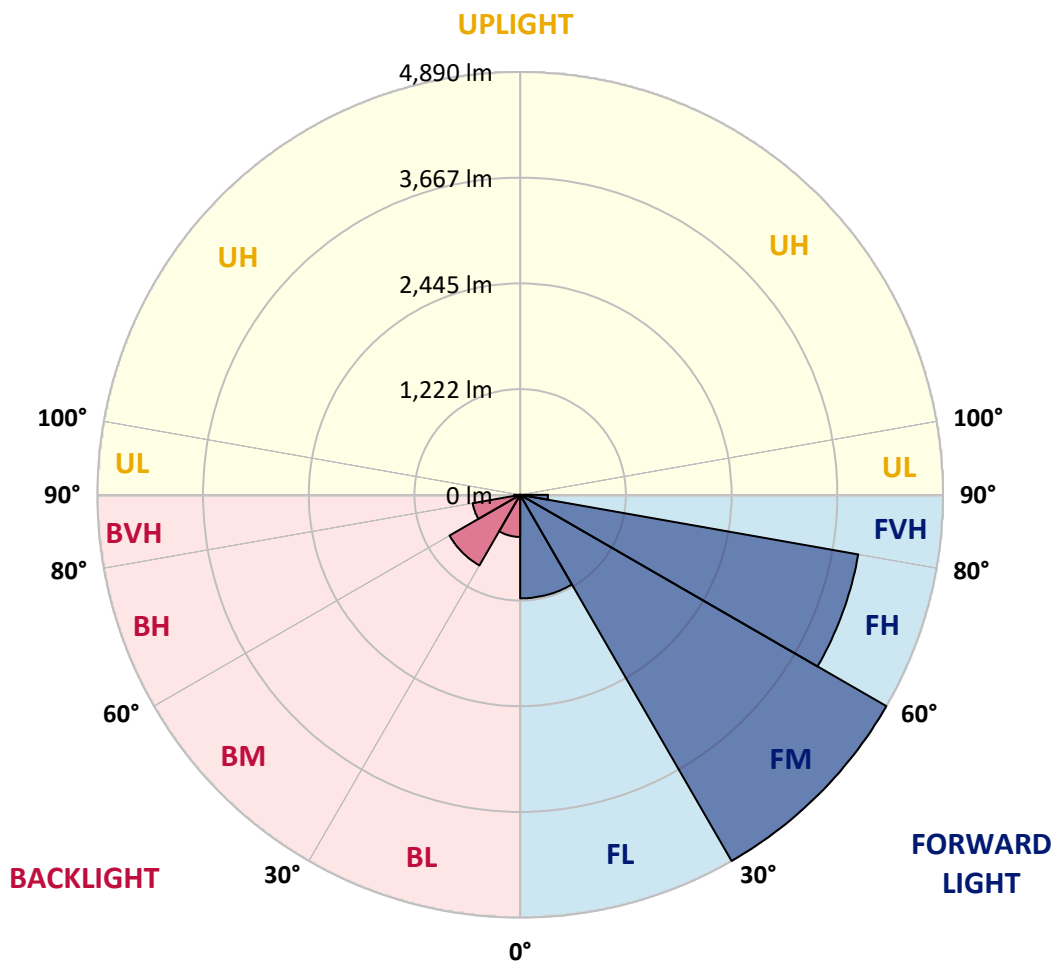
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1197.8	9.6			
FM	(30°-60°)	4889.8	39.3			
FH	(60°-80°)	3970.0	31.9			G2/5000
FVH	(80°-90°)	322.7	2.6			G3/500
BL	(0°-30°)	487.0	3.9	B1/500		
BM	(30°-60°)	943.2	7.6	B1/1000		
BH	(60°-80°)	558.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	70.2	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°	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6
2.5°	4366.5	4277.7	4129.9	3976.1	3882.5	3773.0	3687.5	3612.4	3461.9	3432.5	3459.2
5°	4106.1	3927.7	3649.2	3369.0	3182.2	2981.9	2826.0	2701.0	2510.1	2476.6	2516.9
7.5°	3688.4	3474.9	3107.1	2749.4	2485.5	2235.2	2067.1	1933.0	1783.9	1719.8	1723.7
10°	3328.0	3087.2	2652.3	2263.4	2047.3	1878.3	1736.7	1599.3	1448.2	1349.0	1321.7
12.5°	3126.1	2849.4	2348.0	2000.7	1800.3	1622.7	1470.1	1323.2	1161.7	1060.5	1031.9
15°	3091.4	2790.4	2234.0	1832.6	1581.5	1356.7	1176.8	1012.7	846.4	764.5	747.3
17.5°	3242.5	2895.8	2196.9	1682.7	1375.7	1098.1	877.3	694.1	558.7	517.7	514.2
20°	3532.3	3098.2	2192.2	1542.0	1172.7	847.3	611.3	478.0	418.6	406.8	407.6
22.5°	3939.3	3412.0	2250.9	1436.0	986.0	631.8	459.5	399.9	376.7	365.8	365.8
25°	4465.7	3844.2	2386.3	1358.8	823.9	504.7	405.5	369.9	348.0	340.5	342.0
27.5°	4975.9	4264.7	2543.6	1297.9	717.9	458.1	384.2	352.1	333.1	325.4	328.9
30°	5373.8	4638.1	2674.9	1215.1	663.9	445.1	391.9	358.9	331.6	320.0	320.6
32.5°	5703.3	4964.9	2785.0	1155.5	616.0	381.5	337.8	323.3	320.0	306.4	299.5
35°	6124.6	5321.2	2858.9	1156.9	593.5	340.5	300.8	275.5	257.1	241.4	241.4
37.5°	6618.3	5730.0	2937.6	1172.7	585.4	316.5	287.9	262.5	245.5	230.4	227.7
40°	7106.4	6130.8	3009.4	1187.8	580.4	302.2	277.6	254.4	238.7	223.6	219.4
42.5°	7521.6	6460.3	3073.6	1195.2	564.1	300.8	270.1	248.8	233.9	217.4	213.4
45°	7828.6	6736.5	3142.7	1206.8	547.7	306.4	270.1	248.2	229.8	214.0	209.9
47.5°	8102.7	7060.6	3258.2	1206.8	527.9	296.0	279.0	248.8	229.2	212.6	209.3
50°	8469.9	7505.1	3477.0	1178.9	499.9	285.0	293.9	246.1	222.9	209.9	205.8
52.5°	8975.8	8074.7	3824.4	1130.2	456.9	263.9	291.9	244.9	216.7	203.1	198.3
55°	9574.3	8684.6	4203.2	1073.5	392.5	248.8	281.7	241.4	209.9	194.8	190.0
57.5°	10041.3	9104.4	4469.8	986.0	336.4	240.7	249.6	238.1	201.6	185.9	182.0
60°	10227.1	9088.0	4543.1	869.0	309.1	233.9	218.2	266.6	194.8	179.1	174.3
62.5°	10126.8	8668.2	4337.9	787.0	302.8	225.0	204.5	246.7	189.4	174.3	167.5
65°	9662.4	7924.2	3794.3	765.1	320.6	216.1	195.6	193.5	182.0	167.5	160.6
67.5°	8651.0	6812.4	3038.0	767.2	343.2	207.2	186.7	177.2	171.6	160.0	153.8
70°	7046.4	5386.2	2264.6	772.7	354.8	196.9	177.2	166.8	160.6	149.0	144.9
72.5°	5181.1	4151.2	1645.3	737.1	356.9	185.3	164.2	155.3	149.0	136.8	133.3
75°	3544.7	3175.4	1141.2	610.7	311.1	168.9	149.7	141.6	137.4	122.3	120.3
77.5°	2589.4	2383.6	730.3	453.3	239.9	148.4	132.1	125.9	123.2	106.6	103.9
80°	2078.1	1885.8	456.9	310.5	175.7	124.4	110.7	107.4	104.5	88.2	86.1
82.5°	1441.4	1262.9	293.3	201.6	132.1	96.5	87.6	86.1	82.0	67.1	65.0
85°	760.3	685.8	185.9	137.4	95.6	66.2	60.9	60.9	58.8	44.5	43.1
87.5°	97.1	157.9	94.4	71.8	52.6	29.4	29.4	28.8	30.8	25.3	21.9
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°	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6
2.5°	3396.3	3429.2	3397.7	3399.8	3434.6	3538.5	3585.7	3624.6	3666.4	3693.7	3706.0
5°	2461.7	2538.3	2564.1	2618.8	2699.5	2832.2	2884.8	2923.1	2948.5	2963.4	2969.7
7.5°	1683.5	1729.9	1781.9	1870.1	2045.8	2123.8	2158.6	2149.7	2121.2	2110.8	2100.7
10°	1269.1	1250.7	1241.0	1289.6	1431.8	1510.5	1535.1	1511.1	1495.4	1498.9	1515.9
12.5°	983.3	951.2	912.3	906.7	1000.4	1070.8	1086.6	1087.8	1116.6	1141.8	1179.5
15°	716.6	713.1	694.1	682.5	735.7	793.2	800.1	812.3	838.4	856.8	889.5
17.5°	505.3	523.7	538.8	546.3	586.6	627.6	620.2	614.0	609.2	609.2	624.9
20°	407.6	419.8	439.1	460.8	502.0	530.5	512.1	487.5	469.7	464.3	466.4
22.5°	367.2	376.7	387.7	406.8	443.8	463.7	443.8	426.0	408.2	402.0	399.9
25°	346.7	358.9	369.3	383.6	410.9	424.6	405.5	392.5	381.5	374.1	368.5
27.5°	335.1	345.9	348.8	355.6	378.8	391.0	381.5	376.1	369.3	362.5	355.6
30°	322.7	320.6	315.9	316.5	335.1	347.3	346.7	348.0	347.3	345.3	344.0
32.5°	294.8	290.6	286.5	290.6	307.6	318.6	319.4	322.1	322.1	321.5	326.9
35°	245.5	253.0	257.7	270.1	290.6	300.2	296.0	289.2	277.0	269.3	268.7
37.5°	227.1	228.3	236.6	253.6	276.3	285.0	279.0	263.3	255.0	253.6	255.6
40°	218.2	219.4	224.2	239.9	262.5	271.4	266.0	254.4	246.7	246.1	249.6
42.5°	212.0	213.4	216.1	227.1	245.5	256.5	257.1	248.8	239.9	240.7	244.1
45°	208.5	209.3	208.5	214.0	231.0	244.1	249.6	244.1	236.6	238.1	242.0
47.5°	207.8	205.8	203.1	204.5	222.3	235.2	242.0	239.9	236.6	238.1	241.4
50°	205.1	200.4	196.9	196.2	214.0	227.7	233.9	233.9	235.2	238.1	241.4
52.5°	196.9	191.5	191.5	189.4	208.5	221.5	225.6	226.3	228.3	233.1	238.1
55°	186.7	184.6	186.7	183.2	204.5	216.7	218.8	220.3	221.5	225.6	232.5
57.5°	177.8	175.1	179.9	178.4	201.0	212.0	212.0	214.7	214.7	220.3	225.6
60°	173.1	167.5	169.5	171.0	196.2	207.8	206.6	209.3	210.5	215.5	219.4
62.5°	166.8	162.1	162.1	165.4	190.9	201.6	201.0	203.1	208.5	209.9	214.0
65°	159.4	157.3	155.3	159.4	185.3	194.8	195.6	198.3	203.1	204.5	207.8
67.5°	151.7	152.6	148.4	152.6	180.5	188.0	188.0	193.5	195.6	198.3	201.6
70°	143.7	144.3	140.8	145.7	177.2	180.5	179.9	187.3	188.8	190.9	194.2
72.5°	133.3	133.3	132.1	138.9	171.6	173.1	171.6	177.8	178.4	180.5	182.0
75°	122.3	122.3	121.1	130.6	168.3	164.8	160.6	165.4	166.8	168.3	168.3
77.5°	108.1	109.5	109.5	121.1	156.5	161.5	147.6	150.5	152.6	153.2	151.1
80°	90.3	93.8	95.0	110.1	131.2	149.0	132.1	133.9	134.8	134.8	132.1
82.5°	69.1	75.1	78.7	95.0	100.6	125.0	114.9	117.0	114.9	110.7	109.5
85°	47.8	56.1	60.2	72.5	76.0	96.5	95.6	95.6	91.7	86.1	85.5
87.5°	26.1	30.8	33.5	43.1	52.0	65.0	70.4	68.3	65.0	61.5	62.3
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°	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6
2.5°	3770.3	3863.3	4011.7	4125.1	4239.4	4349.5	4468.6	4559.4	4636.6	4666.9	4758.4
5°	3032.0	3148.1	3288.2	3541.2	3720.4	3917.9	4146.5	4448.7	4564.8	4725.7	4988.8
7.5°	2143.7	2248.9	2474.5	2679.0	2932.8	3212.5	3520.7	3937.8	4090.4	4348.1	4776.8
10°	1600.7	1723.1	1904.2	2076.6	2300.2	2586.1	2940.3	3406.6	3591.9	3871.6	4365.3
12.5°	1289.6	1433.9	1626.0	1788.1	1961.1	2162.8	2506.8	3018.1	3266.5	3511.2	4010.3
15°	990.7	1141.8	1320.5	1526.2	1716.9	1934.4	2294.8	2854.1	3139.8	3395.0	3820.8
17.5°	685.8	815.0	1040.0	1254.6	1498.9	1777.1	2236.0	2888.9	3230.1	3524.2	3853.8
20°	486.2	559.9	744.6	993.6	1297.9	1647.1	2225.1	3072.1	3515.9	3851.7	4064.3
22.5°	408.8	436.2	543.6	771.9	1123.4	1550.0	2263.4	3329.2	3901.6	4330.3	4400.0
25°	372.6	389.2	445.1	605.9	968.1	1479.7	2392.5	3712.2	4378.9	4809.1	4796.7
27.5°	352.7	369.9	406.8	511.5	851.4	1436.0	2521.7	4166.3	4924.6	5328.6	5175.5
30°	346.7	369.9	408.8	482.1	768.0	1366.8	2627.7	4564.8	5344.4	5679.5	5347.9
32.5°	342.0	345.3	363.1	415.7	688.5	1286.1	2699.5	4922.5	5755.3	6013.2	5596.1
35°	276.3	293.3	322.1	372.6	642.1	1237.7	2699.5	5230.9	6160.2	6350.2	5832.7
37.5°	266.0	281.1	306.4	349.4	616.0	1213.7	2645.5	5528.4	6573.8	6732.5	6027.5
40°	260.6	272.8	296.8	331.6	605.1	1186.3	2566.8	5790.9	6977.8	7115.3	6209.4
42.5°	256.5	267.4	290.0	320.6	590.8	1156.3	2503.3	6001.4	7328.7	7442.1	6383.1
45°	254.4	266.0	290.6	326.2	562.0	1116.6	2482.2	6229.1	7617.3	7715.0	6571.1
47.5°	254.4	268.1	293.9	337.8	527.9	1075.6	2548.4	6529.5	7890.1	7937.9	6792.6
50°	252.3	267.4	303.7	326.2	478.0	1023.6	2704.3	6907.5	8185.5	8190.9	7073.1
52.5°	248.2	266.0	326.9	319.4	420.4	955.3	2915.0	7393.1	8622.5	8655.2	7511.9
55°	243.4	263.9	320.6	303.7	373.4	874.0	3087.2	7983.0	9236.4	9327.3	8157.5
57.5°	237.2	261.2	310.5	281.7	342.6	769.2	3149.5	8415.3	9665.1	9893.5	8884.9
60°	231.8	259.2	280.3	268.7	323.3	681.0	3029.1	8329.8	9635.7	10128.0	9529.8
62.5°	226.3	261.2	255.6	260.6	314.4	624.3	2714.6	7645.2	9148.3	9886.0	10007.7
65°	220.3	242.8	241.4	253.6	312.6	601.8	2250.3	6618.9	8206.0	9120.9	10120.5
67.5°	212.0	224.2	231.0	244.9	319.4	581.9	1816.0	5459.9	6896.5	7974.1	9532.4
70°	203.1	213.4	220.9	233.9	315.3	573.0	1510.5	4305.6	5472.3	6535.5	8372.2
72.5°	191.5	200.4	207.2	219.4	311.1	568.2	1276.0	3467.5	4085.6	4854.8	6807.1
75°	177.8	185.9	190.9	203.1	298.1	520.4	1003.1	2934.0	3057.2	3377.2	5421.6
77.5°	162.1	168.3	172.2	185.9	263.9	432.8	725.5	2263.4	2374.1	2451.9	4156.6
80°	143.7	149.7	151.7	164.8	218.8	338.4	473.2	1671.7	1775.7	1793.5	2714.6
82.5°	122.3	128.5	128.5	140.8	179.1	243.4	310.5	1145.3	1165.8	1226.1	1918.7
85°	98.5	103.3	103.3	109.5	138.9	182.0	213.4	575.1	568.8	649.6	1662.2
87.5°	70.4	73.9	77.2	78.7	99.2	120.3	128.5	175.1	115.5	132.7	1067.3
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°	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6	4202.6
2.5°	4827.5	4866.4	4826.7	4798.1	4674.3	4572.5	4436.3	4366.5
5°	5189.1	5288.3	5254.7	5134.5	4875.9	4585.3	4255.1	4106.1
7.5°	5145.5	5375.8	5381.2	5156.4	4775.5	4347.5	3900.3	3688.4
10°	4804.9	5099.5	5183.7	4965.6	4561.5	4082.9	3570.0	3328.0
12.5°	4424.7	4713.2	4777.6	4702.3	4364.6	3883.8	3363.6	3126.1
15°	4113.5	4242.9	4319.3	4385.1	4195.7	3804.5	3351.8	3091.4
17.5°	3924.1	3909.9	3931.8	4045.9	4077.9	3895.4	3529.6	3242.5
20°	3855.8	3636.4	3630.8	3788.1	4022.7	4112.3	3876.9	3532.3
22.5°	3893.5	3537.9	3492.7	3679.5	4052.1	4424.7	4332.3	3939.3
25°	4023.3	3546.2	3509.7	3690.4	4158.7	4757.7	4824.0	4465.7
27.5°	4227.8	3598.1	3550.1	3735.6	4300.3	5037.4	5308.2	4975.9
30°	4422.0	3688.4	3628.7	3824.4	4429.4	5148.1	5605.0	5373.8
32.5°	4658.0	3857.3	3752.5	3987.7	4589.4	5324.5	5869.5	5703.3
35°	4889.0	4097.8	3968.0	4240.0	4767.9	5544.1	6171.8	6124.6
37.5°	5142.8	4412.5	4305.0	4566.3	5012.1	5751.1	6557.4	6618.3
40°	5413.5	4829.6	4702.3	5042.2	5391.0	6011.1	6960.2	7106.4
42.5°	5686.3	5292.4	5140.7	5485.1	5807.2	6267.4	7304.7	7521.6
45°	5998.7	5795.0	5723.2	6095.8	6207.4	6511.7	7559.1	7828.6
47.5°	6362.6	6365.3	6480.8	6629.9	6610.8	6787.8	7815.0	8102.7
50°	6787.2	7077.0	7332.2	7431.2	7026.5	7084.6	8169.8	8469.9
52.5°	7297.2	7928.4	8244.3	8179.3	7474.4	7446.9	8731.8	8975.8
55°	7935.2	8829.7	9143.5	9096.9	7989.2	7940.6	9432.1	9574.3
57.5°	8673.6	9702.8	9991.4	9782.1	8607.4	8482.3	10011.2	10041.3
60°	9322.5	10394.8	10647.8	10415.9	9231.1	9058.6	10372.9	10227.1
62.5°	9683.6	10629.4	10807.2	10557.5	9658.3	9672.6	10452.2	10126.8
65°	9522.3	10036.5	10093.8	10073.3	9548.2	10028.8	10167.1	9662.4
67.5°	8638.8	8537.6	8634.1	8767.4	8604.7	9559.8	9377.2	8651.0
70°	7082.6	6526.6	6718.9	6808.3	6882.2	8226.5	8138.9	7046.4
72.5°	5337.6	4572.5	4724.2	4705.8	5047.5	6598.4	6329.7	5181.1
75°	3781.9	3100.3	3119.3	3111.9	3522.1	5162.4	4583.4	3544.7
77.5°	2646.1	2246.2	2256.5	2298.8	2367.9	3893.5	3274.6	2589.4
80°	1819.5	1704.7	1761.4	1764.9	1641.1	2615.5	2419.2	2078.1
82.5°	1355.2	1184.9	1171.2	1191.1	1286.1	2119.1	1859.1	1441.4
85°	1109.7	701.5	564.1	707.1	1139.8	2098.6	1235.0	760.3
87.5°	624.9	333.1	150.5	279.0	454.8	1389.4	356.9	97.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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