

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: P452263

Luminaire Tested: **GALN-SA3B-722-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-722-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8968 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 121  
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: 24 FT

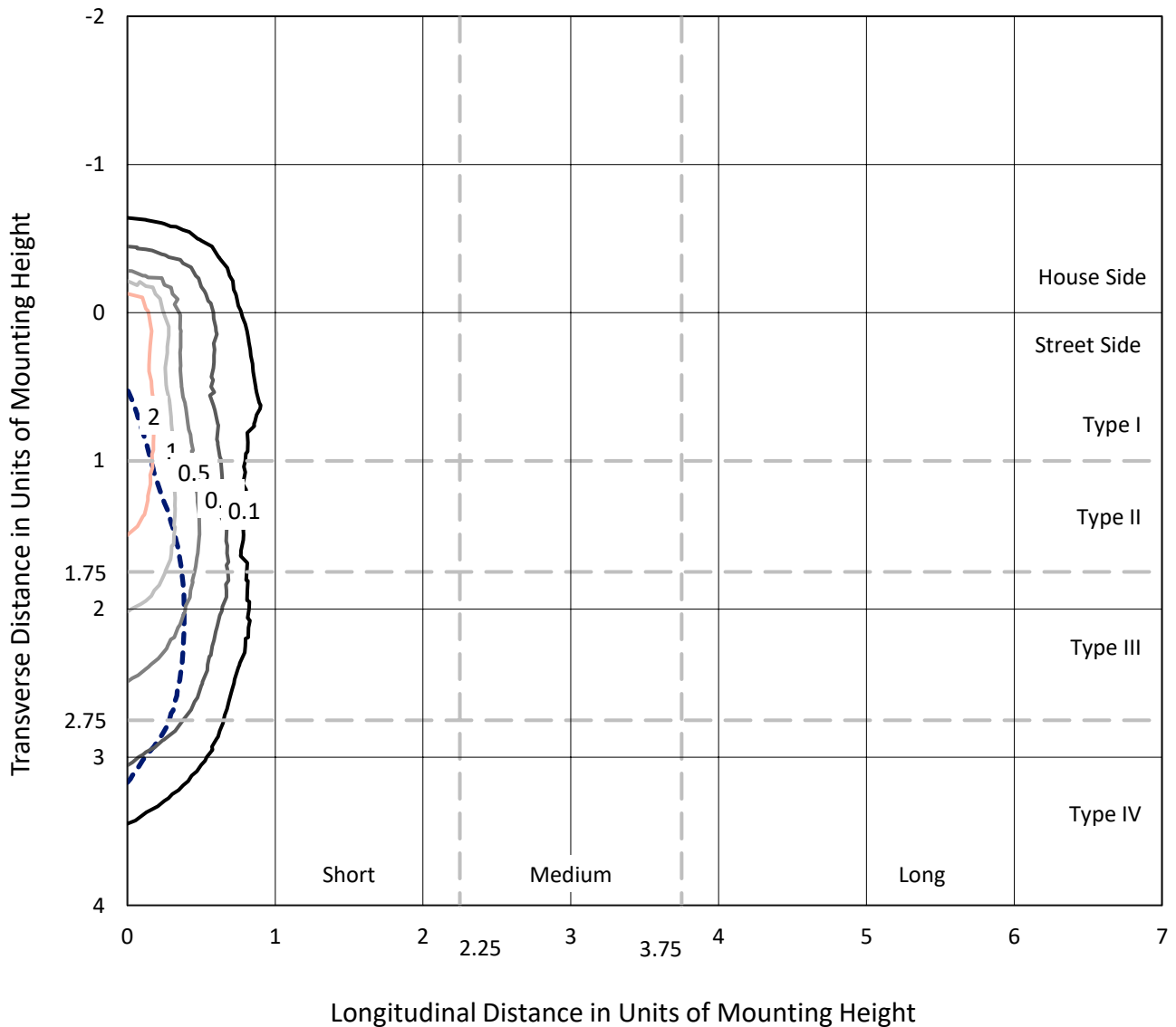




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### Iso-Footcandle Lines of Horizontal Illumination

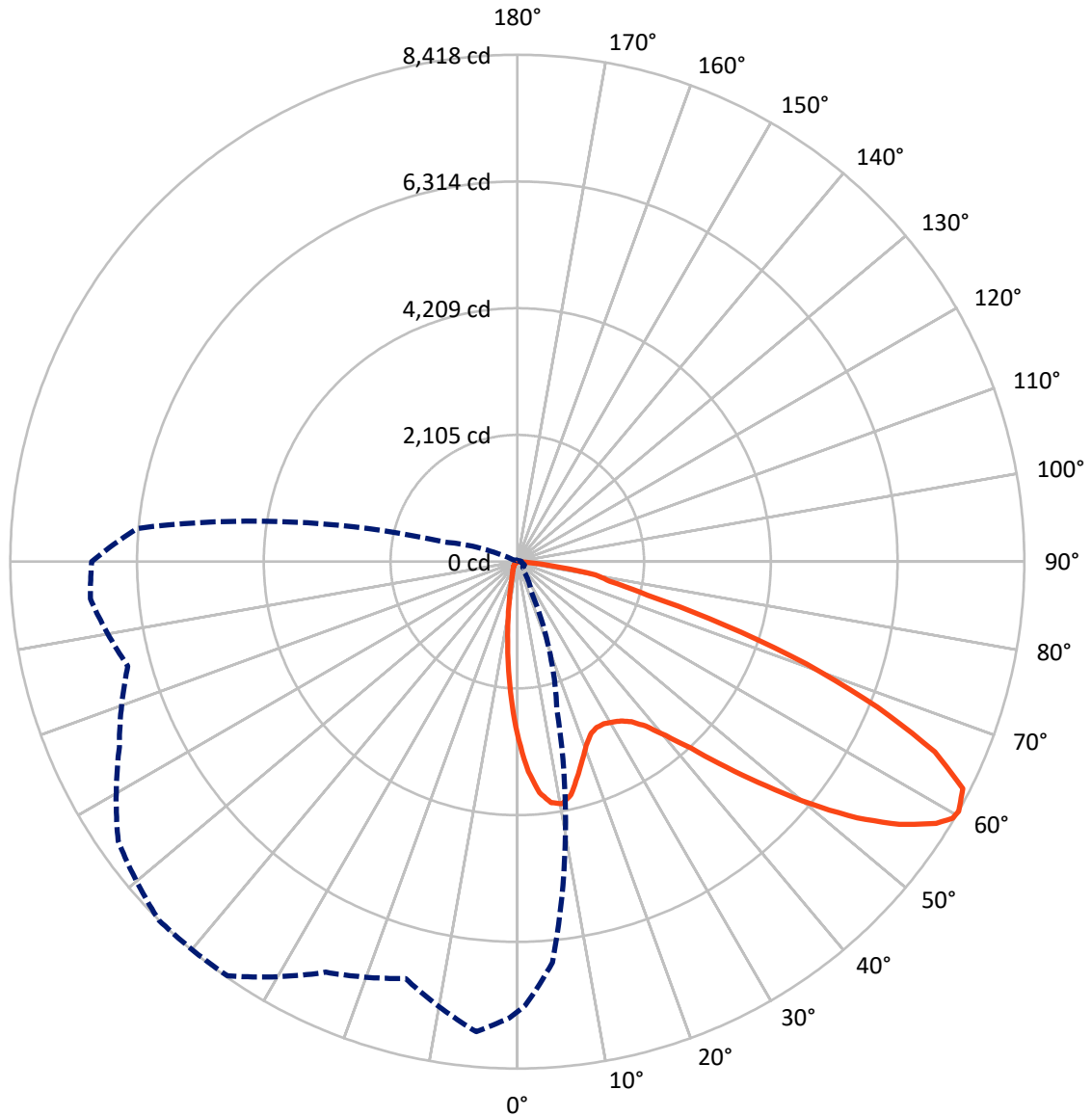
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1106.1	0.0	1106.1
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	7861.9	0.0	7861.9
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	8968.0	0.0	8968.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.5	2.5
10°-20°	437.8	4.9
20°-30°	642.0	7.2
30°-40°	954.7	10.6
40°-50°	1389.4	15.5
50°-60°	2003.7	22.3
60°-70°	2203.8	24.6
70°-80°	987.1	11.0
80°-90°	129.0	1.4
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°	8968.0	100.0
0°-180°	8968.0	100.0



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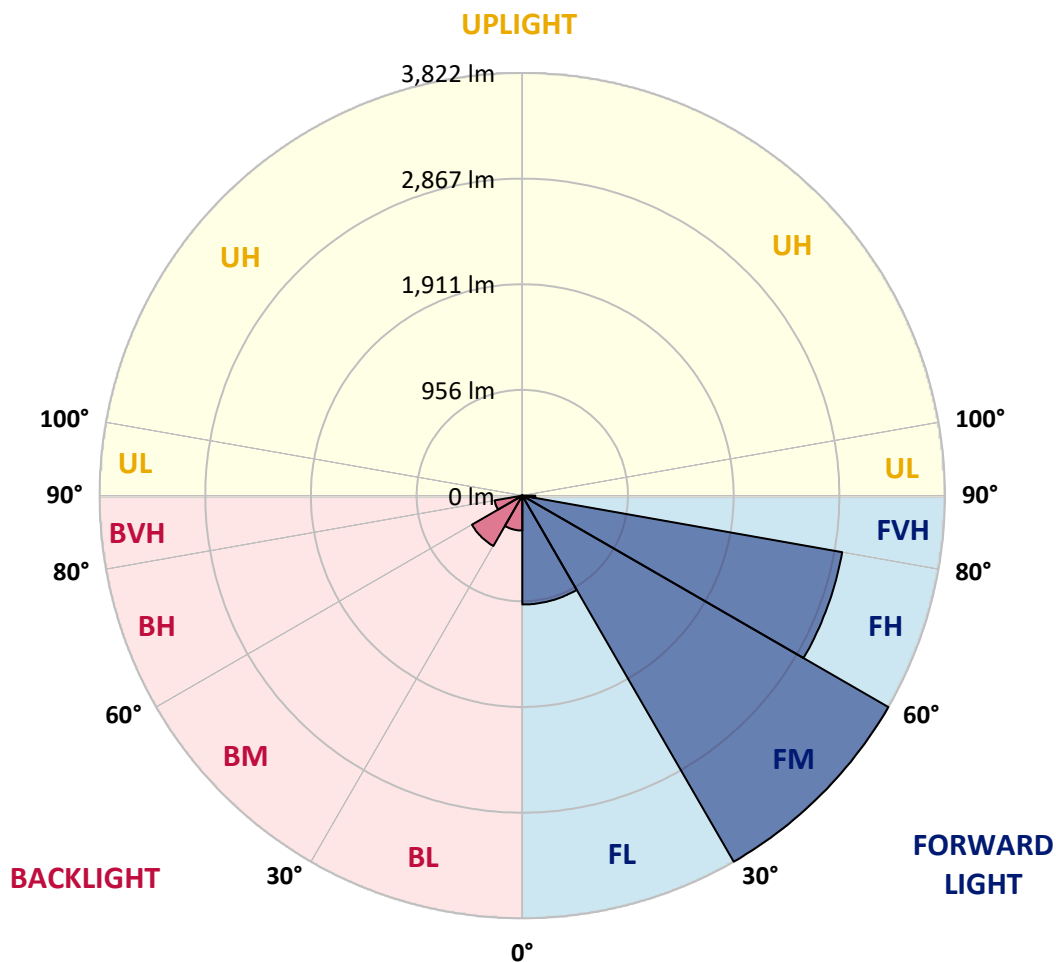
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.2	11.0			
FM (30°-60°)	3822.4	42.6			
FH (60°-80°)	2937.3	32.8			G2/5000
FVH (80°-90°)	118.0	1.3			G2/225
BL (0°-30°)	316.1	3.5	B1/500		
BM (30°-60°)	525.4	5.9	B1/1000		
BH (60°-80°)	253.7	2.8	B1/500		G1/500
BVH (80°-90°)	11.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1
2.5°	3258.5	3244.2	3211.5	3112.0	3025.4	2912.2	2797.7	2707.7	2652.5	2550.9	2504.6
5°	3157.0	3163.8	3069.0	2864.5	2636.8	2481.4	2311.7	2176.7	2028.1	1934.0	1835.1
7.5°	2891.8	2878.2	2775.2	2490.3	2213.5	1988.5	1773.8	1599.3	1489.5	1401.6	1328.0
10°	2664.8	2654.6	2523.0	2156.2	1859.0	1690.6	1545.4	1392.7	1274.8	1145.9	1043.0
12.5°	2522.3	2499.1	2347.8	1964.7	1722.7	1565.9	1407.7	1248.9	1086.0	955.8	831.0
15°	2474.6	2441.2	2272.8	1898.5	1635.4	1436.4	1238.0	1055.3	867.8	724.0	629.9
17.5°	2561.2	2505.9	2326.7	1887.0	1531.1	1267.3	1023.2	785.3	590.4	480.6	422.7
20°	2759.5	2696.1	2463.0	1875.4	1415.2	1077.8	777.8	554.9	408.3	348.4	316.3
22.5°	3054.0	2966.8	2664.8	1893.8	1308.2	893.0	561.7	392.0	324.5	287.0	264.5
25°	3407.8	3334.9	2920.4	1959.2	1223.7	747.8	434.2	320.4	273.4	250.2	233.1
27.5°	3795.7	3679.2	3251.0	2037.6	1146.6	635.3	381.1	286.3	243.4	222.2	213.4
30°	4071.8	3981.2	3527.8	2092.2	1050.5	550.8	348.4	282.2	244.1	218.8	202.5
32.5°	4344.5	4228.6	3759.6	2117.4	980.3	492.2	301.3	246.1	214.1	201.1	184.7
35°	4636.3	4514.9	3990.7	2103.7	927.8	453.3	273.4	219.5	183.4	161.6	145.2
37.5°	4931.5	4803.3	4220.4	2054.7	895.1	437.7	251.5	208.6	173.2	150.7	132.9
40°	5281.8	5110.7	4435.9	2014.4	861.0	429.5	237.2	201.8	165.7	141.8	124.1
42.5°	5568.2	5405.2	4639.7	1993.3	837.8	410.4	237.2	196.3	160.9	134.3	115.9
45°	5839.5	5670.4	4859.9	2010.3	828.3	386.5	240.0	195.6	157.5	128.8	110.4
47.5°	6066.5	5919.9	5086.2	2074.4	816.0	360.6	225.6	205.2	155.4	124.1	105.0
50°	6334.4	6192.6	5385.5	2204.0	794.2	334.7	207.9	220.9	154.7	120.0	100.2
52.5°	6712.1	6558.7	5798.6	2351.2	759.4	295.2	191.6	218.8	152.0	113.2	95.4
55°	7173.6	7049.5	6277.1	2527.8	711.7	250.9	165.7	194.3	143.8	101.6	87.3
57.5°	7469.4	7363.8	6635.7	2604.1	638.8	205.2	145.9	162.9	131.6	90.7	77.7
59°	7504.2	7408.8	6710.7	2578.9	591.0	187.5	136.3	139.7	128.2	84.5	72.3
60°	7474.9	7376.0	6680.7	2529.8	546.7	175.2	128.2	124.1	128.8	81.1	68.2
62.5°	7286.7	7117.7	6389.6	2281.0	477.9	160.9	113.8	101.6	113.8	72.9	60.7
65°	6923.4	6669.8	5813.6	1930.6	450.6	152.7	96.8	85.2	86.6	64.1	52.5
67.5°	6288.7	5969.0	5046.7	1568.6	439.0	153.4	81.8	76.4	66.8	54.5	46.4
70°	5285.3	4966.2	4049.3	1290.5	433.6	153.4	69.5	65.4	55.9	45.7	40.2
72.5°	3745.3	3401.7	2731.6	1013.7	390.6	152.7	59.3	59.3	45.7	38.2	32.7
75°	2116.0	2118.7	1717.2	717.2	324.5	126.1	47.7	47.0	33.4	29.3	24.5
77.5°	1233.2	1211.4	1157.5	308.1	150.7	57.3	33.4	28.6	23.2	21.1	17.7
80°	634.0	521.5	507.9	111.8	53.9	36.1	23.2	16.4	15.0	13.6	12.3
82.5°	187.5	188.2	167.7	45.0	30.0	23.9	11.6	8.9	8.2	7.5	7.5
85°	13.0	8.2	9.5	13.6	18.4	9.5	0.7	2.0	2.0	2.7	3.4
87.5°	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1
2.5°	2453.5	2483.5	2427.6	2428.9	2382.6	2397.6	2343.0	2360.7	2328.7	2353.2	2425.5
5°	1846.1	1852.9	1807.9	1793.6	1800.4	1828.3	1839.2	1789.5	1810.6	1769.0	1766.3
7.5°	1300.7	1308.9	1283.0	1279.6	1328.6	1317.1	1338.2	1287.1	1238.7	1259.8	1220.9
10°	1010.3	976.2	923.0	908.0	898.5	904.6	904.6	858.3	851.4	833.0	861.0
12.5°	797.6	756.0	705.6	637.4	620.4	619.0	593.8	552.9	539.9	524.2	547.4
15°	579.4	562.4	520.1	482.0	443.1	435.6	394.7	361.3	317.0	310.9	308.8
17.5°	407.7	382.4	381.8	359.9	337.4	322.4	284.3	246.1	229.1	227.0	227.0
20°	305.4	296.5	282.2	279.5	272.7	255.6	221.6	201.1	192.9	193.6	196.3
22.5°	257.0	250.9	237.9	231.8	229.1	214.1	188.8	175.2	171.1	171.1	171.8
25°	229.7	224.3	210.0	200.4	197.0	186.1	166.3	156.1	152.7	152.7	152.7
27.5°	209.3	202.5	187.5	179.3	173.2	160.9	148.6	138.4	135.0	135.0	135.7
30°	195.0	187.5	173.8	162.9	153.4	142.5	132.3	123.4	119.3	118.6	119.3
32.5°	175.9	169.1	155.4	148.6	137.7	124.8	116.6	108.4	104.3	105.0	104.3
35°	137.0	135.0	125.4	127.5	121.3	110.4	102.9	94.1	89.3	88.6	90.0
37.5°	124.8	116.6	105.7	106.3	104.3	100.2	87.9	78.4	75.0	75.0	75.7
40°	115.2	107.0	94.8	88.6	89.3	89.3	76.4	66.1	62.7	62.0	63.4
42.5°	107.0	98.8	85.2	75.0	72.3	75.7	64.8	54.5	51.1	49.8	51.1
45°	101.6	92.7	77.0	65.4	57.3	61.4	53.2	45.0	40.9	40.9	40.2
47.5°	96.1	87.9	70.9	56.6	47.7	45.7	43.6	36.1	32.0	31.4	32.0
50°	91.3	83.2	64.1	49.1	40.2	35.4	35.4	28.6	25.9	24.5	25.2
52.5°	86.6	77.7	57.9	43.6	34.8	28.6	25.2	23.2	21.1	20.5	21.1
55°	79.8	70.9	51.8	37.5	30.0	23.9	19.8	19.1	17.7	16.4	17.7
57.5°	71.6	63.4	45.7	32.0	23.9	18.4	16.4	15.7	14.3	13.6	13.6
59°	66.8	59.3	42.3	27.9	21.1	16.4	15.0	14.3	13.0	11.6	12.3
60°	64.1	57.9	40.2	25.9	19.1	15.0	13.6	13.0	11.6	10.9	11.6
62.5°	56.6	51.8	35.4	21.1	15.0	10.9	9.5	10.2	9.5	8.9	9.5
65°	49.8	45.7	30.0	16.4	11.6	7.5	6.8	8.9	8.2	7.5	8.2
67.5°	44.3	39.5	25.2	12.3	8.2	4.1	4.8	7.5	7.5	6.8	7.5
70°	38.2	34.1	20.5	8.9	4.1	2.0	3.4	5.5	6.8	6.1	6.8
72.5°	31.4	26.6	15.7	6.1	2.0	0.0	2.0	4.8	6.8	6.1	6.8
75°	24.5	19.8	11.6	3.4	0.0	0.0	0.7	4.1	6.8	6.1	6.8
77.5°	17.7	14.3	6.8	0.7	0.0	0.0	0.7	4.1	6.8	6.1	6.8
80°	11.6	10.2	2.7	0.0	0.0	0.0	0.7	4.1	6.8	6.8	7.5
82.5°	7.5	5.5	0.0	0.0	0.0	0.0	1.4	5.5	7.5	8.2	8.2
85°	3.4	0.0	0.0	0.0	0.0	0.0	2.7	6.8	8.9	8.9	8.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	4.8	8.2	10.2	10.2	10.2
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1
2.5°	2437.8	2480.7	2541.4	2634.8	2710.5	2829.8	2921.1	3045.9	3172.0	3210.1	3269.5
5°	1794.2	1849.5	1987.2	2112.6	2191.7	2443.9	2603.4	2855.0	3080.6	3189.0	3306.9
7.5°	1246.2	1311.6	1416.6	1591.8	1758.1	1963.3	2221.0	2508.7	2839.3	2994.0	3160.4
10°	874.6	956.4	1104.4	1248.2	1457.5	1652.5	1906.7	2224.4	2589.1	2771.8	2980.4
12.5°	552.2	625.1	820.8	982.3	1243.4	1469.8	1704.3	1991.9	2414.6	2602.1	2820.9
15°	315.6	377.0	468.3	675.6	965.3	1264.6	1557.0	1891.0	2325.3	2556.4	2792.9
17.5°	235.2	251.5	292.5	409.7	673.5	1023.2	1421.4	1860.4	2386.0	2657.3	2927.2
20°	197.7	208.6	227.7	274.0	429.5	788.1	1289.1	1865.8	2582.3	2923.1	3179.5
22.5°	177.2	184.1	199.7	229.7	293.1	574.0	1134.4	1897.9	2820.2	3249.7	3545.5
25°	155.4	164.3	177.9	203.8	244.1	398.1	981.7	1969.4	3153.6	3664.2	3942.3
27.5°	138.4	146.6	160.2	184.1	214.1	304.0	803.7	2030.8	3505.3	4081.4	4309.1
30°	121.3	129.5	143.2	162.2	189.5	246.1	612.2	2066.9	3846.9	4394.3	4569.5
32.5°	107.0	113.8	126.8	143.8	166.3	208.6	482.6	2029.4	4108.0	4678.5	4795.8
35°	92.7	100.9	111.8	127.5	147.2	177.9	401.5	1899.9	4332.2	4971.0	5013.3
37.5°	77.7	87.3	98.8	113.2	128.8	163.6	322.4	1756.8	4572.2	5335.7	5266.2
40°	65.4	74.3	85.2	100.9	115.2	150.0	248.1	1604.1	4831.2	5677.9	5542.3
42.5°	53.2	62.7	75.7	90.0	113.8	130.9	192.2	1445.9	5063.7	5975.8	5791.8
45°	42.3	50.4	64.1	82.5	113.2	112.5	148.6	1289.8	5238.9	6188.5	5977.9
47.5°	33.4	40.2	53.9	80.4	104.3	95.4	119.3	1193.0	5423.0	6380.1	6120.3
50°	26.6	33.4	46.4	83.8	91.3	81.8	100.2	1208.7	5600.9	6477.6	6179.0
52.5°	22.5	29.3	40.2	66.1	70.2	71.6	87.9	1280.9	5830.6	6581.9	6295.5
55°	19.8	25.9	34.1	46.4	54.5	64.1	80.4	1333.4	6138.1	6805.5	6552.5
57.5°	15.7	22.5	30.7	39.5	45.0	55.9	74.3	1337.5	6416.2	7092.5	6894.1
59°	14.3	20.5	28.6	37.5	40.2	50.4	70.2	1302.7	6426.4	7135.4	7050.9
60°	13.0	19.8	27.3	34.8	38.2	47.7	66.8	1262.5	6333.7	7067.2	7115.6
62.5°	10.9	17.0	23.9	27.9	32.7	39.5	57.9	1116.6	5884.5	6758.4	6995.7
65°	9.5	15.0	20.5	23.2	27.3	34.1	51.1	893.7	5388.2	6339.9	6652.1
67.5°	8.9	13.6	17.7	19.8	23.9	31.4	45.7	631.3	4745.3	5808.8	6136.0
70°	8.2	13.0	15.7	18.4	21.1	26.6	38.9	368.1	3655.3	4877.6	5223.2
72.5°	8.2	12.3	13.6	15.7	18.4	23.9	36.1	199.1	2499.1	3720.7	4167.3
75°	8.2	11.6	12.3	13.6	16.4	21.8	32.0	104.3	1615.6	2585.0	3190.4
77.5°	8.2	10.9	12.3	13.0	15.7	19.1	27.9	65.4	1076.4	1810.6	2156.2
80°	8.9	10.9	11.6	13.0	15.0	17.7	23.2	43.6	632.6	1089.4	1312.3
82.5°	9.5	10.9	12.3	13.6	15.7	17.0	20.5	27.3	291.8	720.6	815.3
85°	10.2	11.6	13.0	14.3	16.4	17.0	19.1	19.8	47.7	325.2	439.7
87.5°	10.9	12.3	13.6	15.0	17.7	17.7	17.7	17.7	16.4	34.8	88.6
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1	2964.1
2.5°	3344.4	3421.5	3475.3	3489.0	3450.1	3432.4	3383.3	3306.9	3260.6	3258.5
5°	3524.4	3705.1	3830.5	3851.6	3776.6	3649.8	3499.2	3304.9	3191.1	3157.0
7.5°	3493.7	3810.0	4011.8	4041.1	3915.0	3673.0	3381.3	3068.4	2944.3	2891.8
10°	3367.6	3753.5	4041.8	4088.2	3919.8	3578.9	3208.1	2859.1	2705.0	2664.8
12.5°	3259.9	3649.8	3906.2	3970.2	3842.8	3502.6	3104.5	2724.8	2559.8	2522.3
15°	3212.9	3527.1	3683.9	3716.7	3695.5	3454.9	3093.6	2704.3	2515.5	2474.6
17.5°	3259.9	3422.8	3442.6	3476.0	3523.1	3450.1	3198.6	2815.4	2611.6	2561.2
20°	3383.3	3332.2	3250.4	3264.7	3372.4	3469.9	3385.3	3061.5	2813.4	2759.5
22.5°	3593.3	3309.7	3124.3	3112.0	3248.3	3536.0	3659.4	3394.9	3107.2	3054.0
25°	3851.0	3366.3	3077.9	3051.3	3199.9	3632.8	3957.3	3803.2	3489.0	3407.8
27.5°	4131.8	3483.5	3077.9	3052.0	3195.8	3718.7	4212.3	4164.5	3884.4	3795.7
30°	4285.9	3580.3	3122.2	3092.9	3246.3	3768.5	4348.6	4485.6	4181.6	4071.8
32.5°	4423.6	3714.6	3208.8	3153.6	3351.9	3842.1	4470.6	4758.3	4418.1	4344.5
35°	4550.4	3858.4	3328.1	3264.0	3491.0	3943.0	4605.6	5044.6	4747.4	4636.3
37.5°	4690.1	4025.5	3514.2	3459.7	3723.5	4139.3	4765.8	5420.9	5071.2	4931.5
40°	4842.1	4219.1	3820.3	3797.1	4093.0	4361.5	4968.3	5822.4	5440.7	5281.8
42.5°	4996.9	4442.0	4195.2	4233.4	4511.5	4673.1	5176.2	6131.3	5743.4	5568.2
45°	5137.3	4726.9	4682.6	4871.5	4999.6	4977.1	5330.2	6348.7	6007.2	5839.5
47.5°	5314.6	5142.1	5272.3	5563.4	5566.8	5307.8	5446.8	6526.6	6234.2	6066.5
50°	5512.9	5632.2	6033.8	6330.3	6250.6	5632.9	5583.2	6737.3	6468.7	6334.4
52.5°	5742.7	6181.0	6737.3	7066.6	6880.4	5987.4	5810.2	6965.0	6840.9	6712.1
55°	6009.9	6555.3	7438.8	7701.2	7513.7	6427.8	6155.1	7273.8	7261.5	7173.6
57.5°	6311.9	6950.7	7845.1	8200.2	8033.2	6944.5	6637.1	7564.9	7518.5	7469.4
59°	6550.5	7153.8	8024.3	8392.5	8291.6	7306.5	6960.9	7746.2	7577.8	7504.2
60°	6695.0	7291.5	8090.5	8418.4	8395.2	7521.9	7166.1	7834.8	7577.1	7474.9
62.5°	7123.8	7532.2	8065.2	8303.2	8393.8	7935.0	7768.0	7932.3	7436.7	7286.7
65°	7276.5	7452.4	7647.4	7618.1	7695.8	7913.9	8152.5	7825.3	7136.8	6923.4
67.5°	6979.3	6577.8	6646.6	6451.0	6412.8	7035.9	7996.4	7301.7	6549.8	6288.7
70°	5883.1	5039.2	5004.4	5094.4	4847.6	5696.3	7180.4	6293.5	5581.1	5285.3
72.5°	4630.8	3561.2	3268.1	3599.4	3591.9	4345.9	5964.9	4465.8	3770.5	3745.3
75°	3641.7	2479.4	2176.0	2229.9	2333.5	3146.1	4750.8	2835.9	2321.9	2116.0
77.5°	2444.6	1756.8	1638.8	1572.7	1684.5	2019.9	3005.6	1537.9	1302.1	1233.2
80°	1409.1	1276.2	1449.3	1315.7	1375.7	1272.7	1495.0	705.6	585.6	634.0
82.5°	916.9	726.7	774.4	575.4	786.7	793.5	479.9	208.6	176.6	187.5
85°	573.3	340.9	191.6	136.3	271.3	499.0	150.0	13.0	15.0	13.0
87.5°	148.6	56.6	23.9	35.4	43.6	38.9	34.8	2.0	0.7	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)