

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: P527975

Luminaire Tested: **GALN-SA3A-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-735-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7031 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

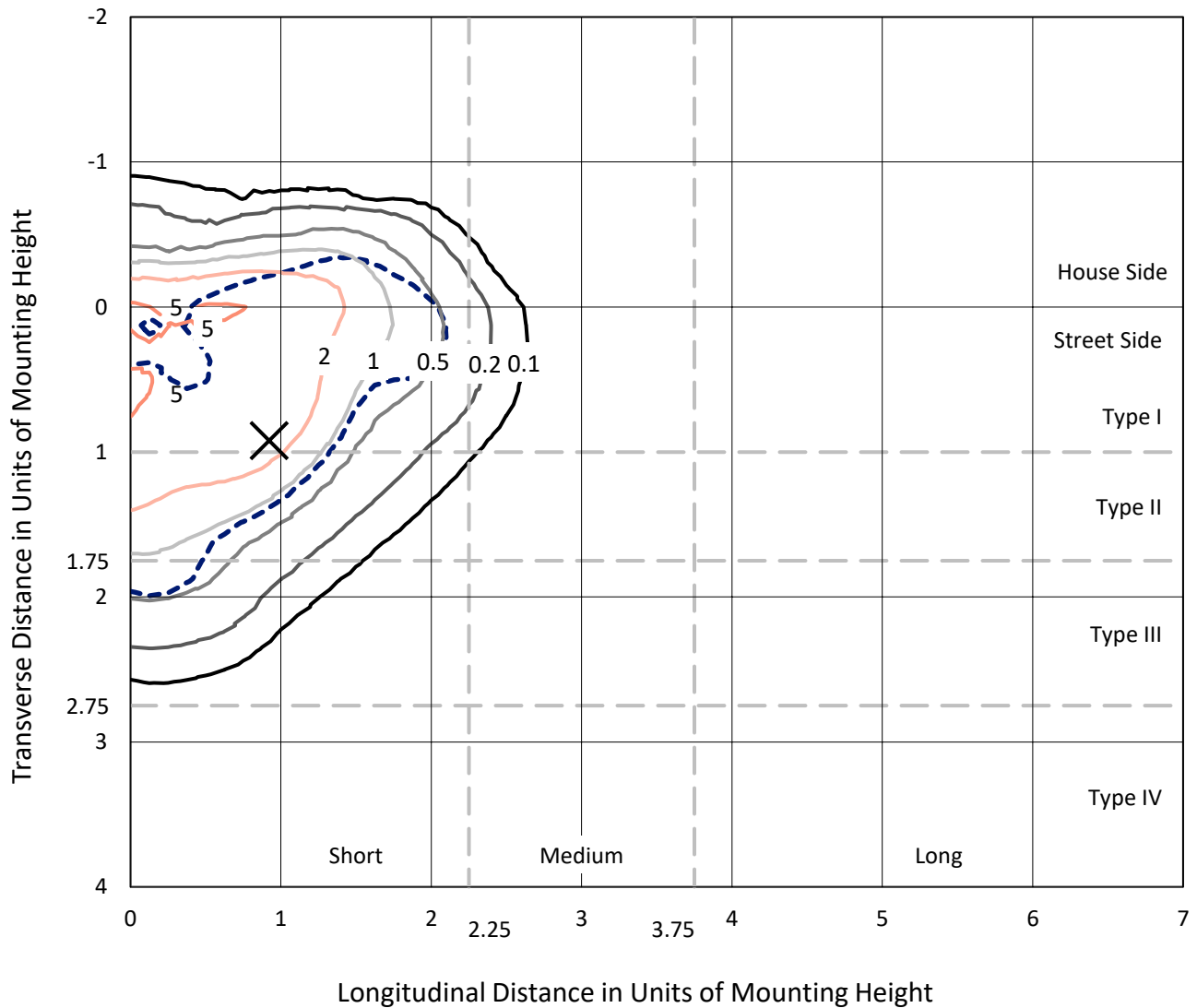
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

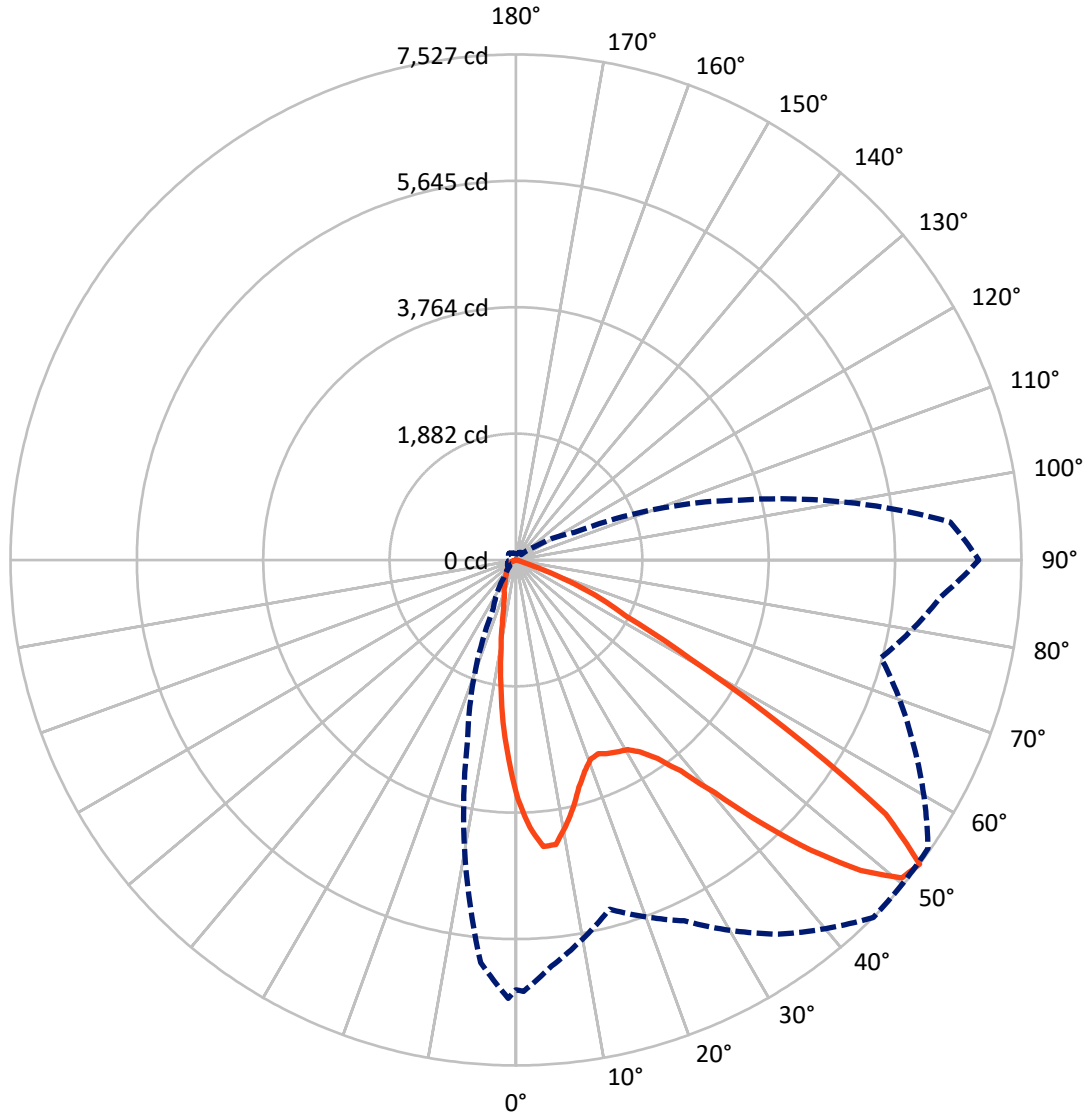
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1426.9	0.0	1426.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	5604.1	0.0	5604.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	7031.0	0.0	7031.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.0	3.7
10°-20°	513.0	7.3
20°-30°	780.6	11.1
30°-40°	1166.7	16.6
40°-50°	1661.6	23.6
50°-60°	1786.1	25.4
60°-70°	791.5	11.3
70°-80°	64.0	0.9
80°-90°	7.5	0.1
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°	7031.0	100.0
0°-180°	7031.0	100.0

**Coefficient of Utilization**

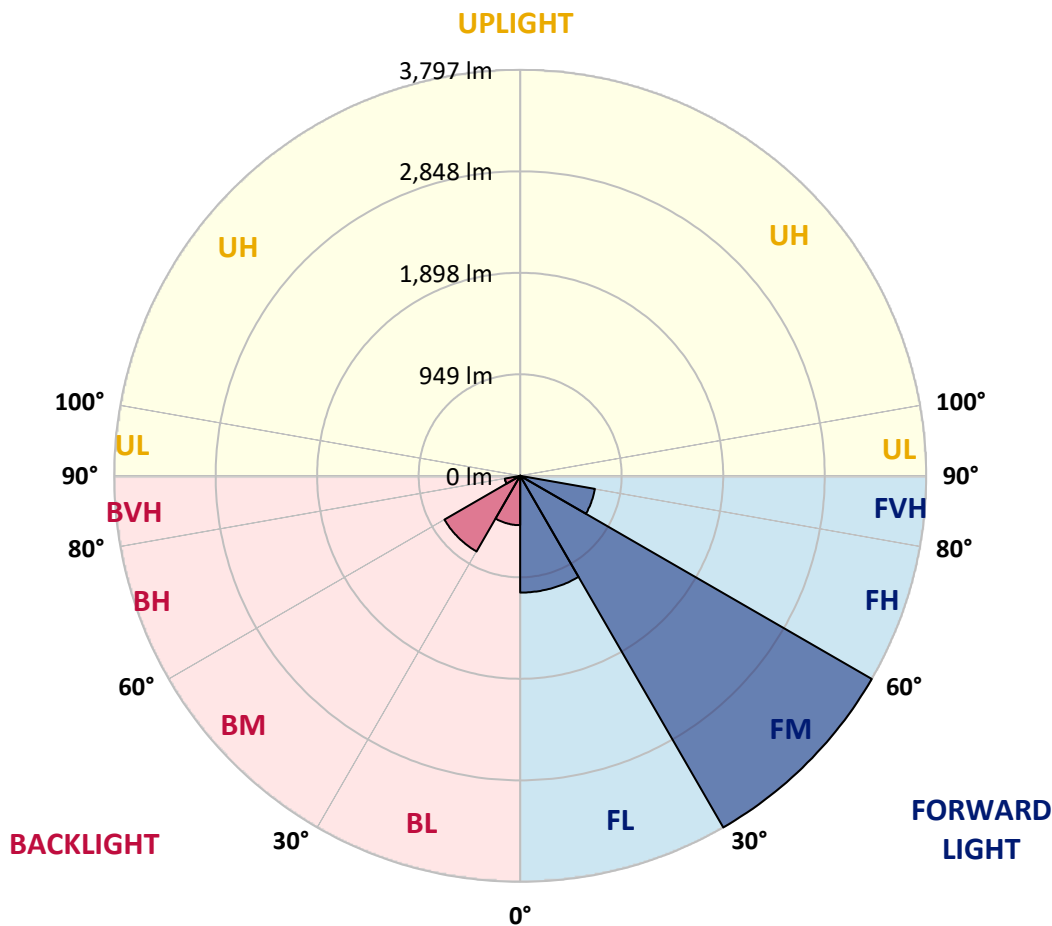


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.1	15.5			
FM (30°-60°)	3797.0	54.0			
FH (60°-80°)	709.5	10.1			G1/1800
FVH (80°-90°)	5.5	0.1			G0/10
BL (0°-30°)	461.5	6.6	B1/500		
BM (30°-60°)	817.5	11.6	B1/1000		
BH (60°-80°)	146.0	2.1	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0
2.5°	3772.5	3783.5	3844.4	3920.4	3960.5	4051.8	3988.2	4004.8	3970.2	3848.5	3753.1
5°	3657.7	3656.3	3733.8	3921.8	4100.2	4281.4	4286.9	4190.1	4020.0	3833.3	3566.4
7.5°	3312.0	3365.9	3446.1	3746.2	4076.7	4212.2	4277.2	4163.8	3902.5	3635.6	3346.6
10°	3050.6	3078.3	3213.8	3576.1	3818.1	3999.3	4039.4	3974.4	3773.9	3440.6	3117.0
12.5°	2899.9	2913.7	3072.7	3377.0	3632.8	3766.9	3786.3	3816.7	3672.9	3360.4	2971.8
15°	2901.3	2912.3	3126.7	3381.1	3482.1	3446.1	3509.7	3508.3	3570.6	3345.2	3093.5
17.5°	3110.1	3122.5	3316.1	3442.0	3397.7	3313.4	3309.2	3372.8	3504.2	3534.6	3277.4
20°	3469.6	3498.7	3641.1	3634.2	3385.3	3215.2	3168.2	3216.6	3522.2	3695.0	3648.0
22.5°	3953.6	3993.7	4093.3	3902.5	3442.0	3148.8	3133.6	3227.6	3641.1	4053.2	4068.4
25°	4515.1	4582.8	4631.2	4386.5	3643.9	3263.6	3191.7	3353.5	3801.5	4441.8	4603.6
27.5°	4887.1	4957.6	4946.5	4596.7	3779.4	3294.0	3233.2	3383.9	3941.2	4534.4	4882.9
30°	5177.5	5220.3	5297.8	4710.1	3914.9	3379.7	3276.0	3512.5	3986.8	4694.9	5220.3
32.5°	5516.3	5545.3	5550.8	4910.6	4123.7	3487.6	3408.8	3672.9	4188.7	4848.3	5519.0
35°	5857.8	5900.7	5810.8	5158.1	4252.3	3688.1	3630.0	3950.9	4350.5	5007.4	5848.2
37.5°	6228.5	6250.6	6043.2	5260.4	4436.3	4014.5	3982.7	4250.9	4631.2	5295.0	6213.2
40°	6539.6	6560.3	6290.7	5386.3	4629.9	4470.8	4552.4	4823.5	5012.9	5481.7	6395.8
42.5°	6712.5	6760.9	6373.7	5317.1	5018.4	4988.0	5350.3	5445.7	5455.4	5534.3	6559.0
45°	6759.5	6737.4	6236.8	5373.8	5358.6	5838.5	6167.6	6293.5	5895.2	5631.1	6600.4
47.5°	6542.4	6571.4	6034.9	5324.1	5805.3	6482.9	6908.8	7142.5	6222.9	5546.7	6498.1
50°	6366.7	6329.4	5969.9	5288.1	5925.6	6787.1	7444.0	7496.5	6524.4	5650.4	6386.1
52.5°	6401.3	6424.8	6073.6	5383.5	5928.4	6805.1	7527.0	7491.0	6534.1	5626.9	6346.0
55°	6474.6	6370.9	6029.3	5173.3	5531.5	6303.1	6680.7	6625.3	6030.7	5376.6	6247.8
57.5°	5586.8	5747.2	5543.9	4618.8	4540.0	4748.8	4741.9	4912.0	4498.5	4627.1	5687.8
60°	4534.4	4562.1	4638.2	3950.9	3141.9	3070.0	2970.4	2862.5	3027.1	3956.4	5173.3
62.5°	3988.2	3955.0	4226.1	3594.1	2218.1	1857.2	1840.6	1907.0	2335.7	3773.9	4852.5
65°	2898.5	2940.0	3136.4	2789.3	1665.0	1417.4	1392.6	1588.9	1890.4	3024.3	3703.3
67.5°	1770.1	1850.3	1868.3	1720.3	1129.8	897.5	861.5	1039.9	1364.9	1956.8	2171.1
70°	817.3	914.1	1005.3	939.0	654.1	369.2	348.5	437.0	688.7	1125.7	1151.9
72.5°	247.5	248.9	348.5	363.7	211.6	83.0	73.3	96.8	233.7	372.0	391.4
75°	18.0	19.4	47.0	53.9	40.1	20.7	22.1	26.3	49.8	83.0	62.2
77.5°	1.4	1.4	1.4	6.9	12.4	13.8	18.0	20.7	26.3	30.4	27.7
80°	1.4	0.0	1.4	5.5	9.7	13.8	16.6	19.4	20.7	23.5	20.7
82.5°	0.0	0.0	0.0	4.1	9.7	13.8	15.2	20.7	23.5	27.7	23.5
85°	0.0	0.0	0.0	4.1	9.7	15.2	13.8	6.9	0.0	0.0	0.0
87.5°	0.0	0.0	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°	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0
2.5°	3769.7	3715.8	3592.7	3530.5	3383.9	3363.1	3219.3	3195.8	3147.4	3121.1	3057.5
5°	3448.9	3383.9	3183.4	3014.7	2818.3	2681.4	2576.3	2480.9	2425.6	2374.4	2397.9
7.5°	3187.5	2998.1	2775.4	2493.3	2266.5	2119.9	1959.5	1828.2	1750.7	1698.2	1710.6
10°	2913.7	2790.6	2480.9	2164.2	1890.4	1786.7	1660.8	1559.9	1450.6	1356.6	1312.3
12.5°	2828.0	2645.4	2256.8	1934.6	1727.2	1626.3	1482.4	1366.3	1226.6	1111.8	1071.7
15°	2843.2	2667.6	2196.0	1851.7	1606.9	1432.7	1261.2	1117.4	963.9	883.7	842.2
17.5°	3090.7	2786.5	2236.1	1764.5	1439.6	1197.6	986.0	803.4	688.7	605.7	587.7
20°	3395.0	3043.7	2321.8	1700.9	1302.7	952.8	720.5	562.8	467.4	453.6	449.4
22.5°	3840.2	3464.1	2505.8	1658.1	1135.3	742.6	493.7	409.3	383.1	380.3	381.7
25°	4462.5	3991.0	2706.3	1622.1	1009.5	572.5	403.8	347.1	338.8	334.7	341.6
27.5°	4732.2	4309.0	2812.8	1544.7	894.7	515.8	398.3	344.3	320.8	313.9	318.1
30°	5065.5	4520.6	2980.1	1411.9	726.0	424.5	372.0	374.8	363.7	329.1	318.1
32.5°	5508.0	4784.7	3064.4	1317.9	648.6	351.2	272.4	250.3	279.3	284.9	294.6
35°	5791.5	5053.0	3107.3	1262.6	608.5	300.1	230.9	210.2	203.3	204.7	210.2
37.5°	6318.3	5415.3	3161.2	1204.5	578.0	261.4	208.8	189.5	179.8	179.8	185.3
40°	6633.6	5703.0	3234.5	1172.7	547.6	237.9	189.5	172.9	164.6	164.6	167.3
42.5°	6712.5	5845.4	3209.6	1161.6	513.0	232.3	172.9	160.4	150.7	149.4	148.0
45°	6853.5	6062.5	3213.8	1149.2	477.1	211.6	163.2	149.4	135.5	134.1	132.8
47.5°	7008.4	6218.8	3222.1	1100.8	442.5	177.0	170.1	138.3	121.7	118.9	118.9
50°	6875.6	6343.2	3294.0	1052.4	398.3	143.8	167.3	130.0	107.9	103.7	105.1
52.5°	6892.2	6489.8	3446.1	984.6	343.0	114.8	135.5	123.1	98.2	91.3	92.7
55°	6626.7	6334.9	3466.9	912.7	268.3	88.5	103.7	107.9	83.0	80.2	80.2
57.5°	5704.3	5364.2	3058.9	739.8	177.0	73.3	74.7	94.0	71.9	69.1	70.5
60°	4881.5	4306.3	2461.5	488.2	110.6	58.1	53.9	95.4	63.6	62.2	66.4
62.5°	4450.1	3538.8	1866.9	302.8	76.1	44.3	37.3	77.4	55.3	55.3	60.8
65°	3215.2	2377.2	1085.6	159.0	53.9	34.6	27.7	44.3	45.6	47.0	49.8
67.5°	1991.3	1200.3	457.7	77.4	36.0	23.5	18.0	27.7	30.4	30.4	33.2
70°	983.2	478.5	152.1	44.3	27.7	19.4	12.4	15.2	15.2	13.8	15.2
72.5°	304.2	143.8	38.7	27.7	19.4	12.4	6.9	5.5	2.8	0.0	1.4
75°	34.6	27.7	24.9	19.4	12.4	5.5	1.4	0.0	0.0	0.0	0.0
77.5°	20.7	23.5	23.5	19.4	12.4	4.1	0.0	0.0	0.0	0.0	0.0
80°	16.6	18.0	19.4	18.0	11.1	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	20.7	23.5	26.3	23.5	15.2	6.9	2.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.1	1.4	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0
2.5°	3031.3	3000.8	3043.7	2980.1	2978.7	2980.1	2962.1	2945.5	2971.8	3042.3	3049.2
5°	2313.5	2378.5	2399.3	2467.0	2429.7	2374.4	2385.5	2348.1	2439.4	2479.5	2447.7
7.5°	1684.3	1680.2	1819.9	1828.2	1846.1	1847.5	1844.8	1771.5	1696.8	1713.4	1763.2
10°	1306.8	1236.3	1304.0	1297.1	1341.4	1328.9	1346.9	1268.1	1294.4	1294.4	1326.2
12.5°	1064.8	990.1	977.7	959.7	977.7	984.6	991.5	976.3	1020.6	1041.3	1063.4
15°	813.1	771.6	760.6	726.0	731.5	750.9	767.5	774.4	760.6	792.4	795.2
17.5°	590.5	589.1	596.0	594.6	589.1	585.0	583.6	565.6	560.1	562.8	573.9
20°	448.1	459.1	482.6	506.1	518.6	503.4	482.6	452.2	439.8	442.5	443.9
22.5°	383.1	399.6	431.5	457.7	470.2	442.5	405.2	378.9	373.4	372.0	370.6
25°	347.1	366.5	390.0	398.3	396.9	380.3	352.6	341.6	338.8	336.0	323.6
27.5°	327.7	334.7	338.8	348.5	352.6	341.6	334.7	318.1	315.3	315.3	307.0
30°	316.7	312.5	318.1	311.1	316.7	308.4	309.8	309.8	302.8	305.6	305.6
32.5°	294.6	295.9	295.9	282.1	286.3	276.6	286.3	294.6	295.9	297.3	308.4
35°	215.7	240.6	253.1	253.1	257.2	250.3	248.9	239.2	226.8	214.3	208.8
37.5°	189.5	199.1	215.7	225.4	232.3	226.8	214.3	199.1	192.2	186.7	181.2
40°	168.7	177.0	188.1	199.1	213.0	206.0	186.7	179.8	171.5	171.5	165.9
42.5°	152.1	156.3	163.2	179.8	195.0	181.2	167.3	161.8	157.6	156.3	154.9
45°	136.9	138.3	145.2	159.0	177.0	163.2	149.4	142.4	143.8	145.2	143.8
47.5°	123.1	125.8	130.0	146.6	157.6	150.7	135.5	131.4	131.4	131.4	132.8
50°	106.5	113.4	121.7	135.5	143.8	139.7	127.2	121.7	118.9	118.9	120.3
52.5°	95.4	100.9	112.0	128.6	139.7	132.8	120.3	112.0	106.5	105.1	107.9
55°	83.0	92.7	110.6	123.1	138.3	131.4	117.5	107.9	98.2	96.8	96.8
57.5°	74.7	89.9	106.5	121.7	134.1	128.6	117.5	105.1	92.7	91.3	91.3
60°	70.5	87.1	103.7	117.5	134.1	125.8	116.2	102.3	88.5	88.5	87.1
62.5°	66.4	81.6	98.2	112.0	128.6	121.7	112.0	98.2	84.4	84.4	81.6
65°	55.3	70.5	81.6	94.0	112.0	105.1	95.4	85.7	74.7	71.9	73.3
67.5°	38.7	48.4	59.5	71.9	83.0	80.2	76.1	69.1	59.5	58.1	56.7
70°	19.4	26.3	36.0	48.4	58.1	55.3	52.5	47.0	41.5	40.1	40.1
72.5°	2.8	8.3	15.2	22.1	30.4	31.8	30.4	29.0	27.7	26.3	27.7
75°	0.0	0.0	0.0	5.5	12.4	15.2	18.0	20.7	20.7	18.0	22.1
77.5°	0.0	0.0	0.0	0.0	1.4	6.9	13.8	18.0	22.1	19.4	26.3
80°	0.0	0.0	0.0	0.0	1.4	8.3	13.8	19.4	22.1	19.4	27.7
82.5°	0.0	0.0	0.0	0.0	1.4	9.7	13.8	18.0	20.7	19.4	24.9
85°	0.0	0.0	0.0	0.0	4.1	8.3	5.5	2.8	1.4	1.4	4.1
87.5°	0.0	0.0	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0
2.5°	3088.0	3186.1	3291.2	3331.3	3455.8	3549.8	3613.4	3750.3	3771.1	3772.5
5°	2480.9	2530.7	2710.4	2794.8	2980.1	3123.9	3277.4	3498.7	3646.6	3657.7
7.5°	1763.2	1901.4	1977.5	2197.4	2425.6	2651.0	2879.1	3136.4	3307.8	3312.0
10°	1418.8	1508.7	1644.2	1808.8	2001.0	2230.6	2534.8	2833.5	3007.7	3050.6
12.5°	1142.3	1299.9	1454.8	1624.9	1771.5	1944.3	2272.1	2670.3	2814.1	2899.9
15°	879.5	1023.3	1205.9	1405.0	1570.9	1801.9	2175.3	2630.2	2872.2	2901.3
17.5°	648.6	777.2	945.9	1134.0	1382.9	1710.6	2191.9	2833.5	3061.7	3110.1
20°	466.0	540.7	673.5	892.0	1208.6	1604.1	2208.4	3039.6	3386.7	3469.6
22.5°	369.2	399.6	486.8	680.4	1013.6	1492.1	2326.0	3433.7	3833.3	3953.6
25°	320.8	337.4	378.9	536.6	890.6	1481.1	2514.1	3906.6	4428.0	4515.1
27.5°	309.8	312.5	348.5	492.3	824.2	1407.8	2586.0	4242.7	4798.6	4887.1
30°	326.4	370.6	373.4	416.2	701.1	1262.6	2623.3	4567.6	5112.5	5177.5
32.5°	282.1	268.3	278.0	322.2	616.8	1178.2	2693.8	4851.1	5470.6	5516.3
35°	196.4	206.0	228.2	279.3	539.3	1089.7	2711.8	5163.6	5810.8	5857.8
37.5°	181.2	186.7	204.7	237.9	474.3	1039.9	2686.9	5391.8	6163.5	6228.5
40°	168.7	175.6	185.3	215.7	425.9	984.6	2652.3	5597.9	6379.2	6539.6
42.5°	159.0	164.6	172.9	206.0	384.4	929.3	2603.9	5888.3	6572.8	6712.5
45°	148.0	156.3	165.9	200.5	360.9	892.0	2568.0	5870.3	6684.8	6759.5
47.5°	136.9	150.7	161.8	186.7	354.0	874.0	2583.2	5802.5	6593.5	6542.4
50°	125.8	143.8	163.2	154.9	337.4	838.0	2601.2	5895.2	6376.4	6366.7
52.5°	116.2	136.9	152.1	127.2	300.1	803.4	2775.4	6016.9	6529.9	6401.3
55°	102.3	123.1	121.7	102.3	243.4	777.2	2912.3	6019.6	6426.2	6474.6
57.5°	92.7	109.2	95.4	85.7	179.8	649.9	2689.7	5047.5	5501.1	5586.8
60°	85.7	106.5	71.9	67.8	117.5	468.8	2348.1	3909.4	4372.6	4534.4
62.5°	78.8	100.9	56.7	55.3	81.6	333.3	1930.5	3271.9	3768.3	3988.2
65°	69.1	71.9	45.6	42.9	58.1	179.8	1175.4	2252.7	2816.9	2898.5
67.5°	56.7	55.3	37.3	34.6	38.7	87.1	518.6	1128.4	1633.2	1770.1
70°	45.6	45.6	31.8	27.7	27.7	40.1	135.5	449.4	738.5	817.3
72.5°	33.2	34.6	24.9	22.1	20.7	19.4	22.1	89.9	193.6	247.5
75°	29.0	30.4	24.9	19.4	15.2	12.4	9.7	8.3	11.1	18.0
77.5°	31.8	31.8	26.3	18.0	13.8	9.7	5.5	2.8	2.8	1.4
80°	40.1	41.5	34.6	23.5	16.6	11.1	6.9	2.8	1.4	1.4
82.5°	42.9	47.0	38.7	29.0	20.7	12.4	6.9	1.4	0.0	0.0
85°	11.1	18.0	30.4	26.3	20.7	12.4	6.9	1.4	0.0	0.0
87.5°	0.0	1.4	4.1	4.1	5.5	5.5	4.1	1.4	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

(END OF REPORT)