

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: P647831

Luminaire Tested: **GALN-SA3A-835-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-835-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7676.5 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

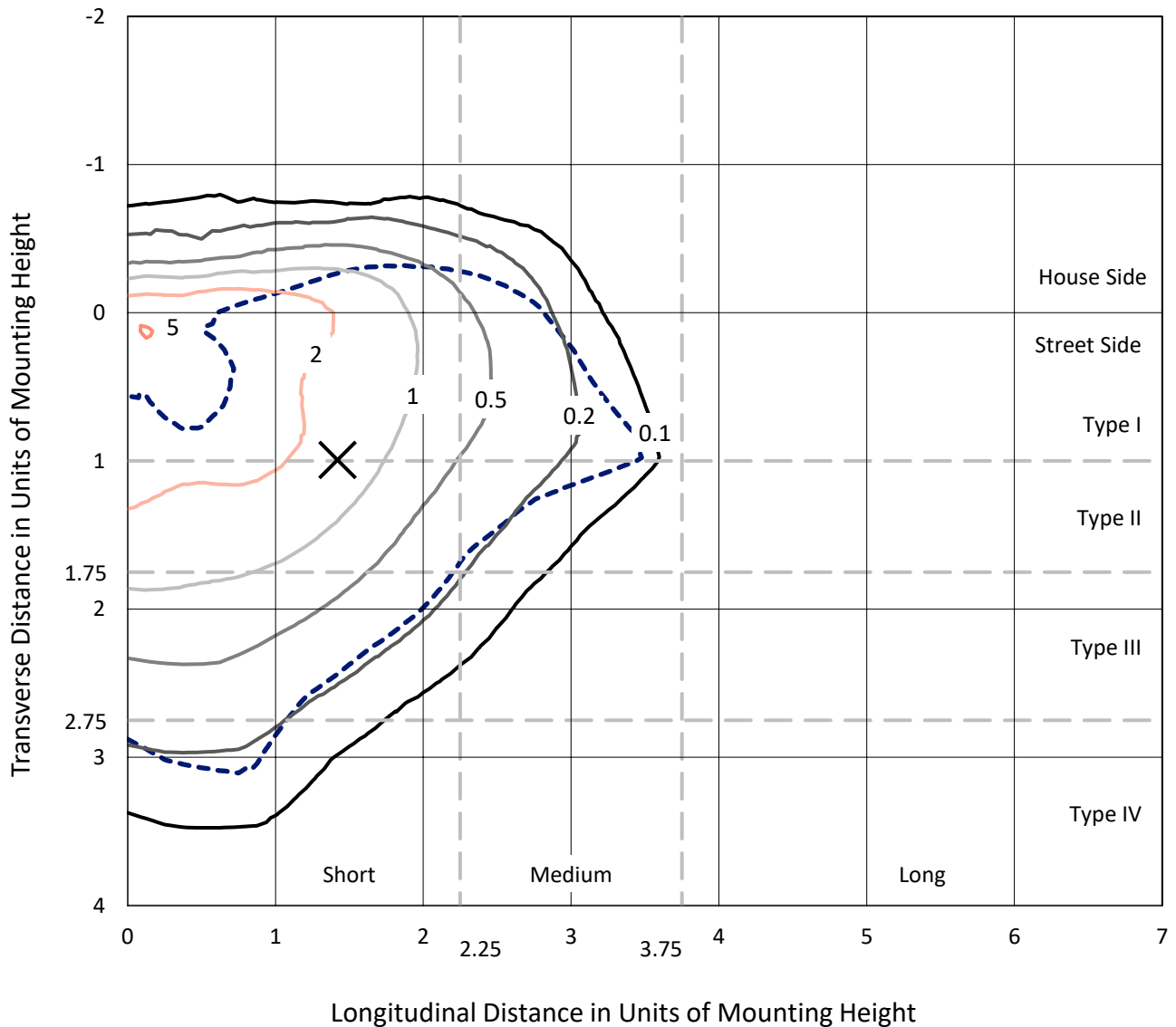
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

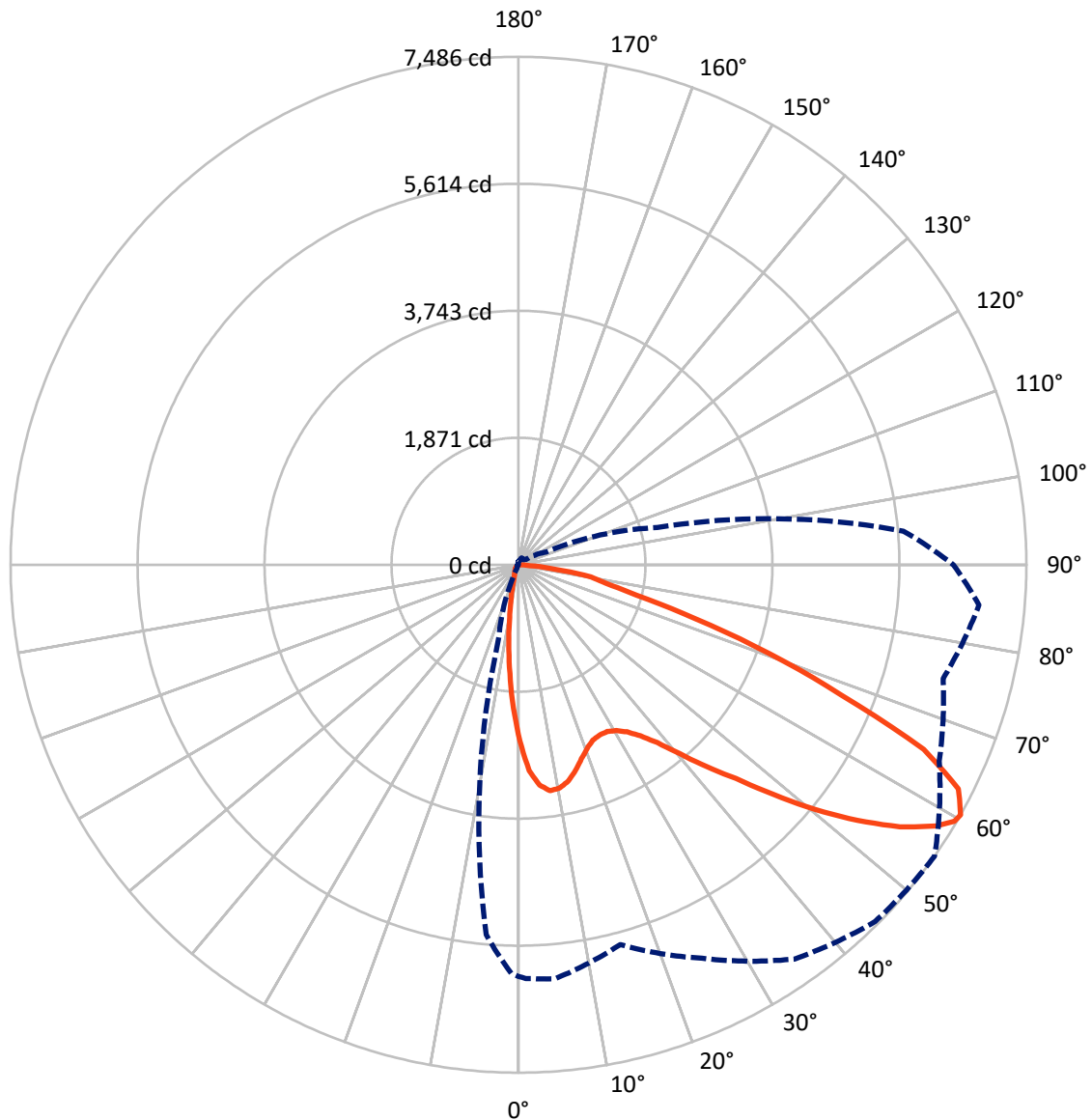
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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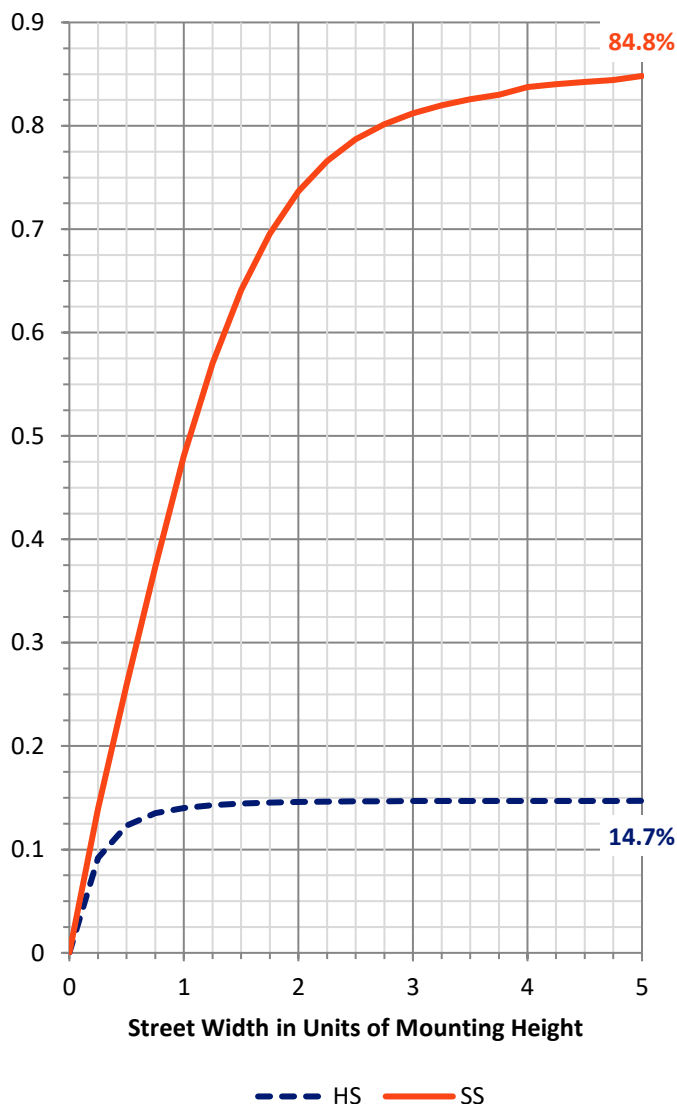
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1139.3	0.0	1139.3
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	6537.3	0.0	6537.3
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	7676.5	0.0	7676.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.5	2.5
10°-20°	379.0	4.9
20°-30°	561.0	7.3
30°-40°	836.3	10.9
40°-50°	1224.8	16.0
50°-60°	1768.2	23.0
60°-70°	1860.0	24.2
70°-80°	765.1	10.0
80°-90°	89.6	1.2
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°	7676.5	100.0
0°-180°	7676.5	100.0

**Coefficient of Utilization**

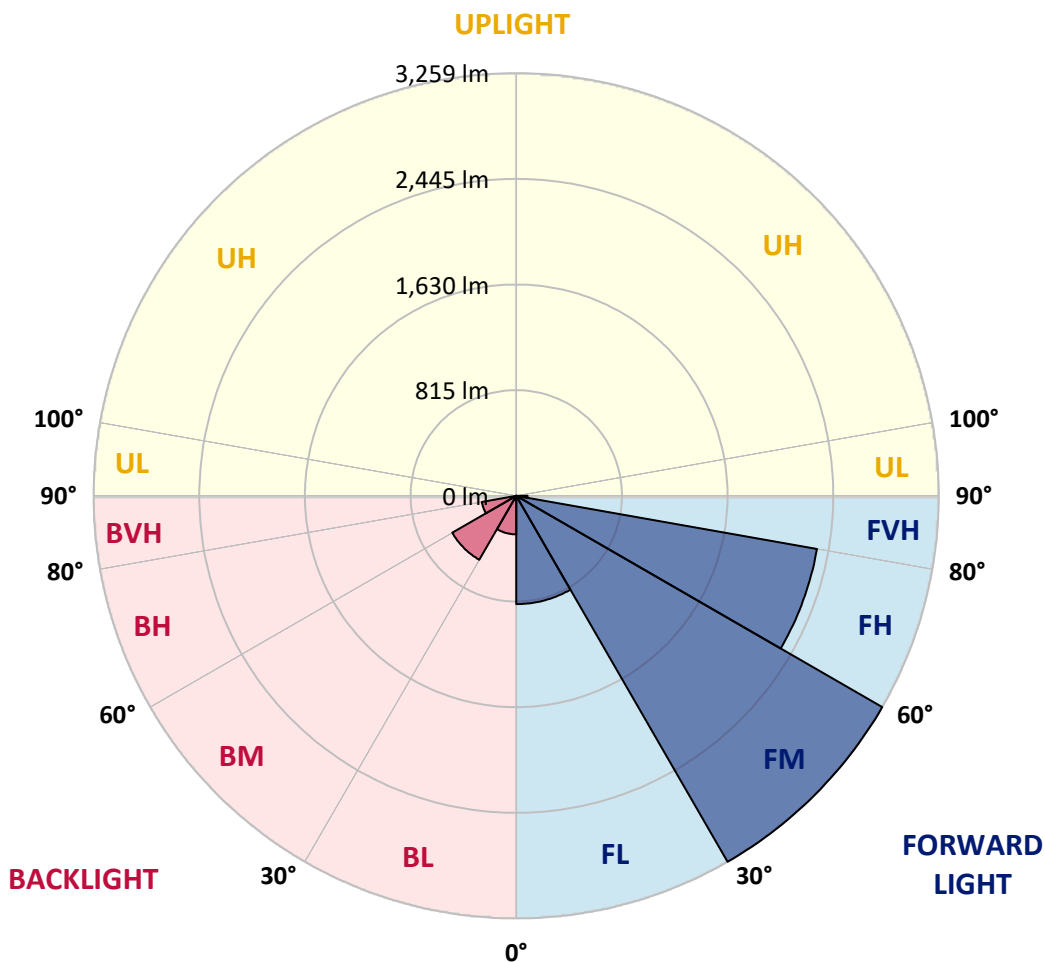


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.3	10.9			
FM (30°-60°)	3259.5	42.5			
FH (60°-80°)	2355.5	30.7			G2/5000
FVH (80°-90°)	87.0	1.1			G1/100
BL (0°-30°)	297.2	3.9	B1/500		
BM (30°-60°)	569.7	7.4	B1/1000		
BH (60°-80°)	269.7	3.5	B1/500		G1/500
BVH (80°-90°)	2.6	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-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2
2.5°	2839.7	2835.0	2877.0	2945.5	3014.6	3050.6	3043.6	3040.6	2983.3	2941.3	2853.3
5°	2833.8	2858.0	2933.1	3118.6	3259.2	3327.2	3347.3	3262.8	3151.1	2989.3	2789.5
7.5°	2664.2	2694.4	2816.7	3106.8	3356.7	3504.5	3499.1	3363.8	3133.4	2882.8	2598.1
10°	2453.9	2489.3	2632.9	2985.1	3309.5	3504.5	3515.1	3343.7	3057.1	2735.7	2436.1
12.5°	2305.6	2347.5	2506.5	2871.7	3187.7	3379.8	3392.2	3268.1	2999.8	2679.0	2348.1
15°	2255.4	2295.0	2456.3	2814.3	3058.4	3161.8	3158.8	3145.8	2977.4	2692.6	2352.8
17.5°	2341.6	2374.1	2556.1	2840.3	2937.3	2926.6	2942.0	3004.6	2982.1	2806.7	2501.8
20°	2564.4	2597.4	2793.0	2920.1	2844.5	2777.1	2784.2	2888.8	3025.8	3021.1	2734.5
22.5°	2871.0	2927.2	3104.4	3074.9	2832.0	2684.4	2669.6	2805.5	3100.3	3268.1	3048.9
25°	3259.2	3316.0	3454.3	3321.9	2893.0	2662.5	2648.9	2780.0	3190.7	3509.2	3402.8
27.5°	3585.4	3628.6	3766.2	3562.4	2982.8	2671.9	2649.5	2783.6	3264.0	3714.2	3701.2
30°	3846.6	3878.5	3959.5	3674.6	3060.1	2713.3	2687.3	2835.6	3296.5	3814.1	3942.9
32.5°	4057.0	4110.7	4136.1	3794.6	3171.2	2791.3	2747.0	2935.5	3375.7	3937.6	4196.4
35°	4297.4	4359.4	4326.9	3909.2	3317.7	2913.0	2858.7	3097.4	3495.6	4051.6	4490.7
37.5°	4602.3	4673.8	4546.8	4029.8	3472.5	3096.1	3070.8	3324.9	3677.6	4214.7	4806.1
40°	4917.9	4959.2	4760.1	4176.3	3662.8	3362.7	3386.9	3662.8	3915.7	4410.2	5141.8
42.5°	5164.2	5203.3	4979.3	4299.2	3857.2	3678.8	3779.9	4070.5	4188.7	4610.6	5392.3
45°	5352.7	5385.8	5131.2	4433.3	4119.6	4136.7	4327.6	4490.7	4462.2	4732.9	5585.5
47.5°	5499.2	5527.6	5248.1	4577.5	4512.5	4696.8	4988.7	5057.9	4745.9	4865.2	5760.5
50°	5559.5	5567.8	5284.8	4761.3	4958.6	5410.6	5715.0	5673.0	5070.9	5012.4	5946.6
52.5°	5638.1	5636.3	5389.4	4936.2	5378.1	6048.8	6352.5	6257.3	5438.4	5232.8	6155.7
55°	5844.3	5846.7	5613.3	5184.3	5735.6	6564.0	6889.0	6819.9	5826.0	5605.0	6399.8
57.5°	6094.9	6103.7	5931.8	5474.4	6077.1	6937.5	7289.6	7263.0	6350.1	6019.2	6630.2
59°	6127.4	6145.1	6082.4	5678.9	6279.8	7052.1	7426.7	7452.7	6630.8	6292.2	6754.9
60°	6068.2	6097.8	6126.2	5794.7	6398.6	7093.4	7435.0	7485.8	6841.7	6477.8	6811.6
62.5°	5810.6	5857.3	5999.7	6151.0	6546.9	6964.6	7170.9	7277.2	7102.9	6965.3	6816.9
65°	5473.2	5497.5	5703.1	6214.2	6259.1	6363.1	6426.9	6563.4	6789.2	7153.1	6572.9
67.5°	4920.2	4991.7	5243.4	5847.3	5410.1	5287.1	5271.2	5135.3	5721.5	6705.2	5971.4
70°	4064.6	4096.5	4406.7	4793.8	4083.0	3893.9	3969.5	3918.7	4435.1	5772.3	4806.1
72.5°	3073.7	3145.8	3449.0	3821.2	2778.3	2533.1	2741.7	2722.7	3331.4	4639.0	3301.8
75°	2186.8	2233.5	2619.9	2990.4	1945.8	1648.5	1723.5	1793.9	2325.7	3662.8	1951.1
77.5°	1502.6	1542.7	1832.9	1977.6	1419.3	1359.6	1243.8	1311.8	1523.9	2173.2	1061.8
80°	906.4	904.6	1095.5	1131.0	988.5	1148.0	963.1	1081.3	921.2	930.0	411.2
82.5°	588.5	582.6	670.0	730.3	550.1	578.5	388.2	559.5	600.3	259.4	130.0
85°	263.6	274.8	322.0	424.9	241.1	128.3	79.2	171.9	255.9	130.6	0.0
87.5°	27.2	21.3	56.7	103.4	33.1	3.5	11.8	5.9	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°	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2
2.5°	2812.5	2778.3	2676.1	2580.4	2498.2	2397.8	2332.8	2230.5	2168.5	2149.6	2152.5
5°	2699.7	2601.0	2406.6	2251.2	2078.1	1979.4	1829.3	1685.2	1607.2	1578.2	1565.2
7.5°	2463.3	2357.6	2123.0	1879.0	1693.5	1520.4	1408.6	1281.6	1194.8	1123.2	1110.8
10°	2287.8	2149.0	1858.3	1595.9	1449.4	1319.4	1207.8	1080.7	978.5	896.9	874.5
12.5°	2182.7	2027.3	1702.9	1483.1	1344.3	1210.7	1065.3	918.2	813.6	725.6	684.8
15°	2163.7	1983.6	1659.2	1402.1	1230.8	1069.5	876.3	717.3	609.8	526.5	501.0
17.5°	2277.8	2062.2	1652.7	1317.6	1082.5	853.8	652.9	521.2	400.0	353.4	335.0
20°	2481.1	2201.0	1652.1	1219.6	930.0	657.6	458.5	339.7	290.7	268.3	257.6
22.5°	2758.2	2390.1	1683.4	1135.0	771.6	485.1	327.4	270.6	242.3	223.9	219.8
25°	3096.8	2670.2	1760.2	1077.7	650.5	380.5	270.1	231.6	208.0	199.7	196.1
27.5°	3397.5	2938.4	1844.7	1018.7	563.7	336.8	250.6	212.1	193.2	186.7	181.4
30°	3656.9	3181.9	1885.5	940.7	494.0	308.4	254.1	226.9	202.1	182.6	173.7
32.5°	3873.2	3368.5	1912.1	869.8	434.9	252.3	200.9	175.5	164.3	157.1	151.3
35°	4143.8	3570.6	1896.1	829.6	404.7	229.9	183.1	151.3	132.3	118.2	112.3
37.5°	4427.4	3772.7	1868.3	796.5	391.2	213.3	174.3	143.6	122.9	108.1	100.5
40°	4721.1	3960.0	1835.8	765.8	378.7	202.6	169.0	137.1	116.4	100.5	92.2
42.5°	4989.9	4142.6	1822.8	745.7	358.7	204.4	164.8	134.1	109.9	93.3	86.3
45°	5207.3	4315.7	1840.6	735.1	336.8	201.5	166.1	130.6	104.6	88.6	81.5
47.5°	5439.6	4560.3	1897.9	724.4	315.5	187.3	174.9	130.0	102.3	85.7	78.0
50°	5709.6	4873.5	2029.1	698.4	289.6	171.9	186.1	129.4	99.3	82.1	74.5
52.5°	6069.4	5229.3	2164.4	652.9	251.7	157.1	177.8	127.6	93.3	78.0	70.3
55°	6392.6	5603.9	2279.0	599.2	203.8	135.9	160.1	120.0	83.3	70.9	63.8
57.5°	6526.2	5815.3	2275.5	524.7	163.1	119.3	131.8	109.9	72.7	62.6	56.7
59°	6477.1	5788.8	2199.2	469.7	148.9	110.5	109.3	108.8	68.0	56.7	52.0
60°	6408.0	5691.9	2117.1	442.6	140.0	104.6	100.5	107.5	63.8	53.2	48.5
62.5°	6143.3	5290.1	1844.7	396.5	128.3	88.6	80.3	91.0	56.7	46.1	42.0
65°	5759.8	4672.6	1561.7	383.5	124.7	73.3	66.8	65.0	48.5	39.0	35.5
67.5°	5011.8	3954.2	1265.1	374.6	125.8	61.5	58.5	49.0	40.2	32.5	30.1
70°	4012.6	3083.1	1035.8	364.6	127.0	50.2	49.0	39.0	32.5	27.2	24.8
72.5°	2437.9	1827.6	815.4	316.7	123.5	40.2	43.7	29.5	23.6	19.5	18.3
75°	1507.4	1250.8	505.8	246.4	81.5	29.5	30.7	18.3	16.0	12.4	12.4
77.5°	873.3	790.0	180.8	88.6	36.0	17.7	13.6	9.5	8.8	5.3	5.3
80°	362.2	290.1	62.6	30.1	19.5	8.3	3.0	0.6	0.0	0.0	0.0
82.5°	105.8	94.0	17.1	13.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2
2.5°	2102.4	2082.9	2073.9	2104.1	2076.4	2111.8	2084.6	2096.4	2131.2	2146.7	2186.2
5°	1573.5	1553.4	1543.9	1589.4	1587.1	1609.5	1607.2	1627.9	1645.6	1606.0	1646.7
7.5°	1096.0	1082.5	1105.0	1140.4	1178.2	1165.8	1165.8	1138.0	1147.5	1141.5	1139.8
10°	833.7	787.1	775.2	774.1	788.2	791.1	775.2	736.8	751.0	755.1	779.9
12.5°	655.8	619.8	564.9	540.0	533.5	538.9	486.3	452.6	468.5	459.1	483.3
15°	470.3	440.8	408.3	380.5	372.9	362.2	304.9	264.7	260.0	261.8	265.9
17.5°	335.6	315.5	315.5	286.0	270.1	238.1	209.1	191.4	189.6	191.4	194.4
20°	247.6	236.9	235.8	228.1	210.3	189.1	169.0	165.4	164.3	167.2	168.4
22.5°	213.3	202.1	192.6	192.1	175.5	157.8	148.3	143.6	144.2	145.3	148.3
25°	190.8	179.1	169.0	163.1	151.3	138.8	130.0	127.6	127.6	129.4	130.0
27.5°	174.9	160.1	151.3	143.0	132.3	121.8	114.0	112.3	111.1	112.3	115.3
30°	163.6	148.9	137.7	125.3	117.0	107.0	100.5	98.1	97.5	98.1	100.5
32.5°	140.0	131.2	122.3	111.1	101.0	94.5	87.5	83.3	83.3	84.5	86.8
35°	105.8	101.0	100.5	97.5	89.2	82.1	73.8	69.7	69.7	72.1	73.3
37.5°	93.3	84.5	83.3	82.1	78.6	69.1	61.5	57.9	57.3	59.1	61.5
40°	85.1	75.0	69.7	68.5	69.1	58.5	50.2	46.7	46.7	47.3	49.6
42.5°	78.6	66.8	57.3	56.1	58.5	49.0	40.8	37.2	37.2	37.2	40.2
45°	73.3	59.7	48.5	42.5	46.1	40.2	33.1	29.5	28.3	29.5	30.7
47.5°	69.7	54.3	42.5	34.3	34.3	31.9	26.6	22.5	21.3	21.8	23.6
50°	66.8	49.6	36.0	27.8	24.8	25.4	20.1	17.1	16.0	16.0	17.7
52.5°	62.0	44.9	31.3	23.6	18.9	17.1	14.8	12.4	11.8	12.4	13.6
55°	56.1	40.8	27.2	19.5	14.8	11.8	10.6	8.8	8.3	8.8	10.6
57.5°	49.6	34.3	21.8	15.3	10.0	7.7	7.1	5.9	4.7	5.3	6.5
59°	45.5	30.7	18.9	12.4	7.7	5.3	5.3	4.1	3.0	3.5	5.3
60°	43.7	28.3	16.0	10.6	6.5	4.1	4.1	3.0	1.8	2.3	4.1
62.5°	37.2	23.6	12.4	6.5	3.0	0.6	1.8	0.6	0.0	0.6	1.8
65°	31.3	18.9	8.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
67.5°	26.0	14.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	20.7	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2	2599.2
2.5°	2188.6	2273.1	2325.1	2423.2	2523.6	2601.0	2697.9	2784.8	2820.8	2839.7
5°	1688.1	1805.7	1905.6	2055.1	2193.9	2362.9	2534.3	2736.4	2813.7	2833.8
7.5°	1184.7	1304.6	1409.2	1582.4	1780.3	2006.6	2263.0	2519.5	2632.4	2664.2
10°	855.6	983.8	1111.5	1284.6	1469.5	1714.7	1981.8	2299.1	2429.1	2453.9
12.5°	540.0	677.8	885.1	1099.0	1294.6	1491.9	1771.5	2116.5	2260.1	2305.6
15°	313.2	416.0	572.5	851.4	1100.2	1361.4	1666.3	2047.9	2208.7	2255.4
17.5°	209.8	245.2	352.7	566.0	894.6	1240.8	1639.7	2104.1	2282.0	2341.6
20°	176.6	192.6	230.4	345.1	689.0	1133.3	1646.7	2256.5	2489.9	2564.4
22.5°	155.4	170.1	194.4	248.1	481.0	999.7	1680.5	2474.6	2775.9	2871.0
25°	137.1	151.8	173.1	205.6	323.2	845.6	1754.3	2793.7	3154.7	3259.2
27.5°	121.8	135.3	153.6	181.4	248.8	673.6	1819.9	3104.4	3500.3	3585.4
30°	107.5	118.8	136.5	157.8	206.8	519.4	1853.0	3376.2	3752.1	3846.6
32.5°	93.3	104.0	121.1	138.3	170.1	395.9	1829.9	3576.0	3996.7	4057.0
35°	79.8	91.0	105.2	121.1	147.1	319.7	1714.7	3800.5	4250.1	4297.4
37.5°	68.5	78.0	92.8	105.2	133.0	255.9	1575.2	4002.5	4534.4	4602.3
40°	57.9	67.3	82.1	93.3	122.3	201.5	1449.4	4227.1	4833.9	4917.9
42.5°	47.3	58.5	71.5	89.8	105.2	153.6	1297.0	4409.1	5059.0	5164.2
45°	37.8	50.2	64.4	89.2	91.6	117.0	1149.8	4550.9	5258.2	5352.7
47.5°	30.1	42.5	62.0	83.3	75.0	92.8	1065.9	4699.3	5423.6	5499.2
50°	24.2	35.5	65.0	73.3	62.6	78.6	1063.5	4864.6	5509.3	5559.5
52.5°	19.5	29.0	55.0	56.1	53.2	69.1	1127.4	5050.8	5596.7	5638.1
55°	16.5	24.2	36.0	41.3	47.8	62.6	1175.3	5337.4	5805.3	5844.3
57.5°	13.0	20.7	27.8	33.1	42.5	57.3	1181.8	5558.4	6069.4	6094.9
59°	11.2	17.7	24.8	29.5	39.0	53.8	1155.2	5571.9	6086.6	6127.4
60°	9.5	16.0	21.8	27.8	36.0	50.8	1126.2	5473.2	6022.8	6068.2
62.5°	7.1	12.4	16.0	22.5	29.5	43.7	989.1	5128.8	5778.8	5810.6
65°	4.7	8.8	11.8	16.5	23.0	37.8	805.9	4682.1	5401.8	5473.2
67.5°	3.0	6.5	9.5	12.4	18.9	31.9	574.3	4015.0	4874.1	4920.2
70°	1.8	4.1	7.1	10.0	14.8	25.4	340.9	3173.6	4055.2	4064.6
72.5°	1.2	3.0	4.7	7.1	11.8	23.0	165.4	2068.7	2960.8	3073.7
75°	0.6	1.8	3.0	5.3	9.5	18.9	79.2	1382.1	2154.3	2186.8
77.5°	0.0	0.6	1.8	3.5	7.1	14.8	46.1	907.6	1468.9	1502.6
80°	0.0	0.0	1.2	3.0	5.3	9.5	27.8	535.3	889.9	906.4
82.5°	0.0	0.0	0.6	2.3	3.5	7.1	14.2	235.1	582.6	588.5
85°	0.0	0.0	0.6	2.3	3.0	4.7	5.3	31.9	258.8	263.6
87.5°	0.0	0.0	0.6	3.0	3.0	3.0	3.0	1.8	21.8	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)