

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: P531121

Luminaire Tested: **GALN-SA6B-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531121  
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-SA6B-827-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA 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: 13713 lumens  
Efficiency: N/A  
Efficacy: 56.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

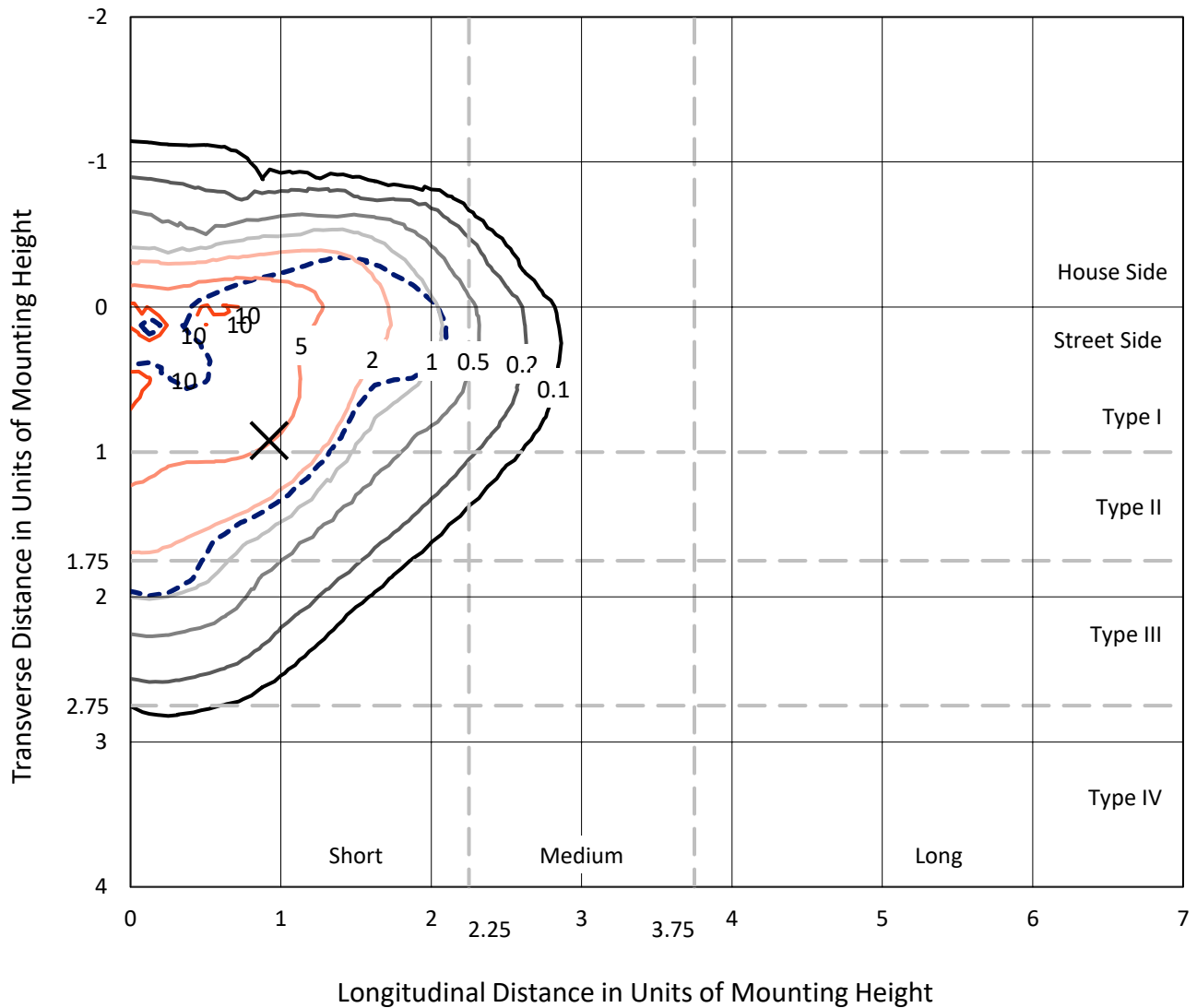
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

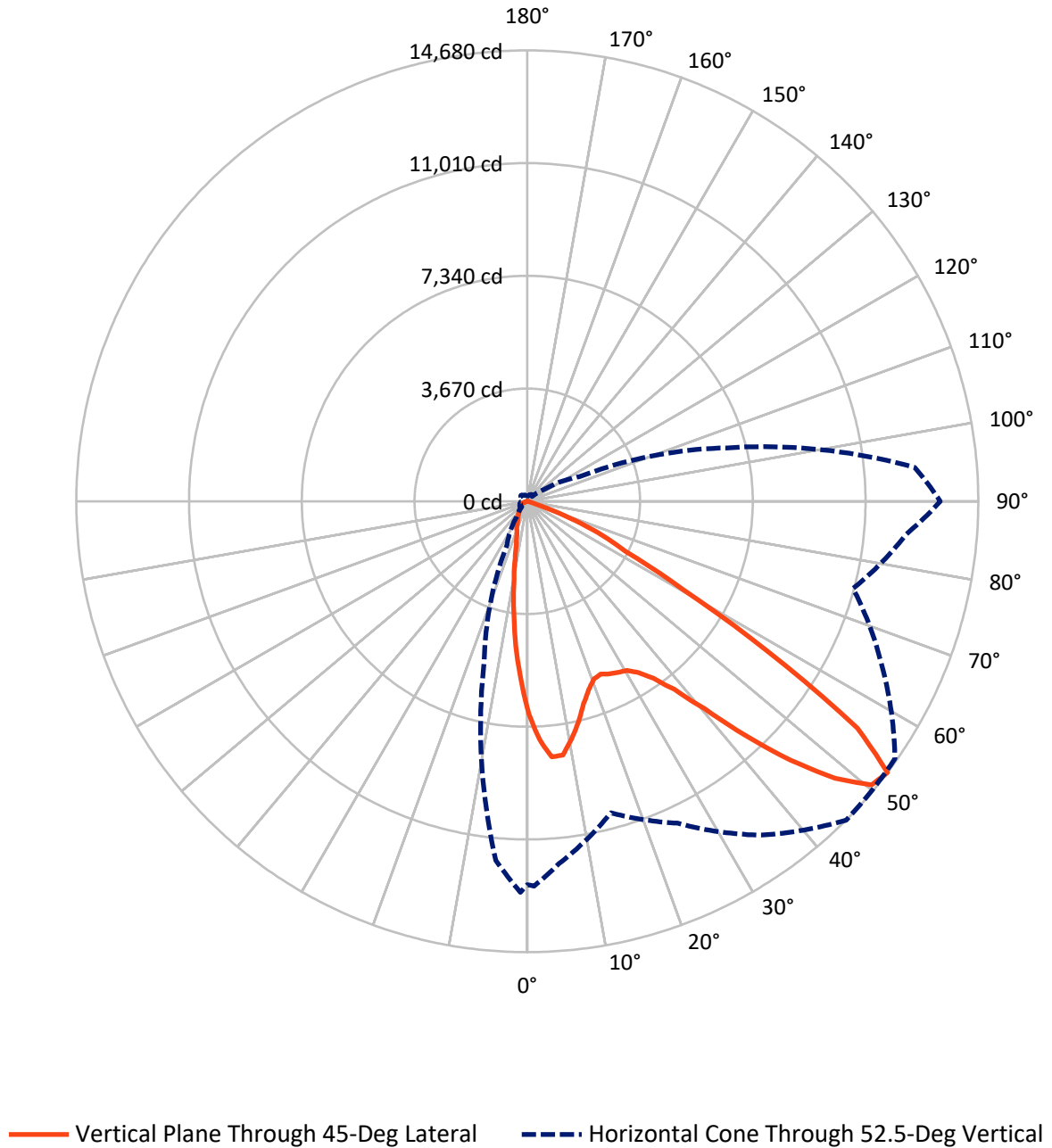
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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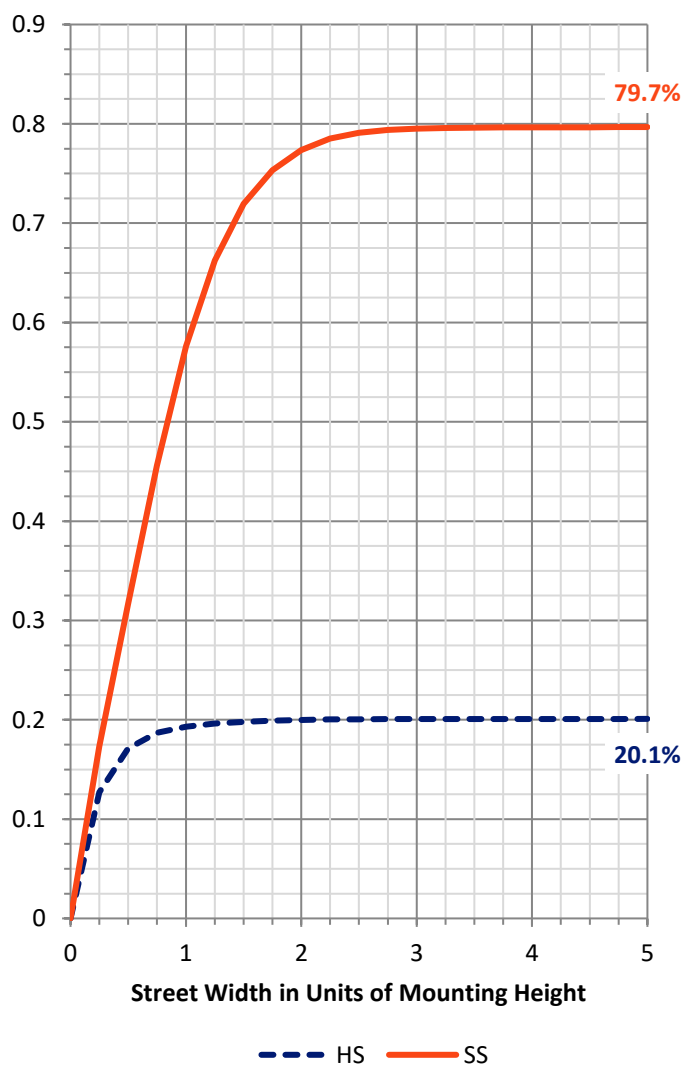
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2783.1	0.0	2783.1
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	10929.9	0.0	10929.9
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	13713.0	0.0	13713.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.1	3.7
10°-20°	1000.5	7.3
20°-30°	1522.5	11.1
30°-40°	2275.6	16.6
40°-50°	3240.7	23.6
50°-60°	3483.6	25.4
60°-70°	1543.7	11.3
70°-80°	124.9	0.9
80°-90°	14.6	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°	13713.0	100.0
0°-180°	13713.0	100.0

**Coefficient of Utilization**

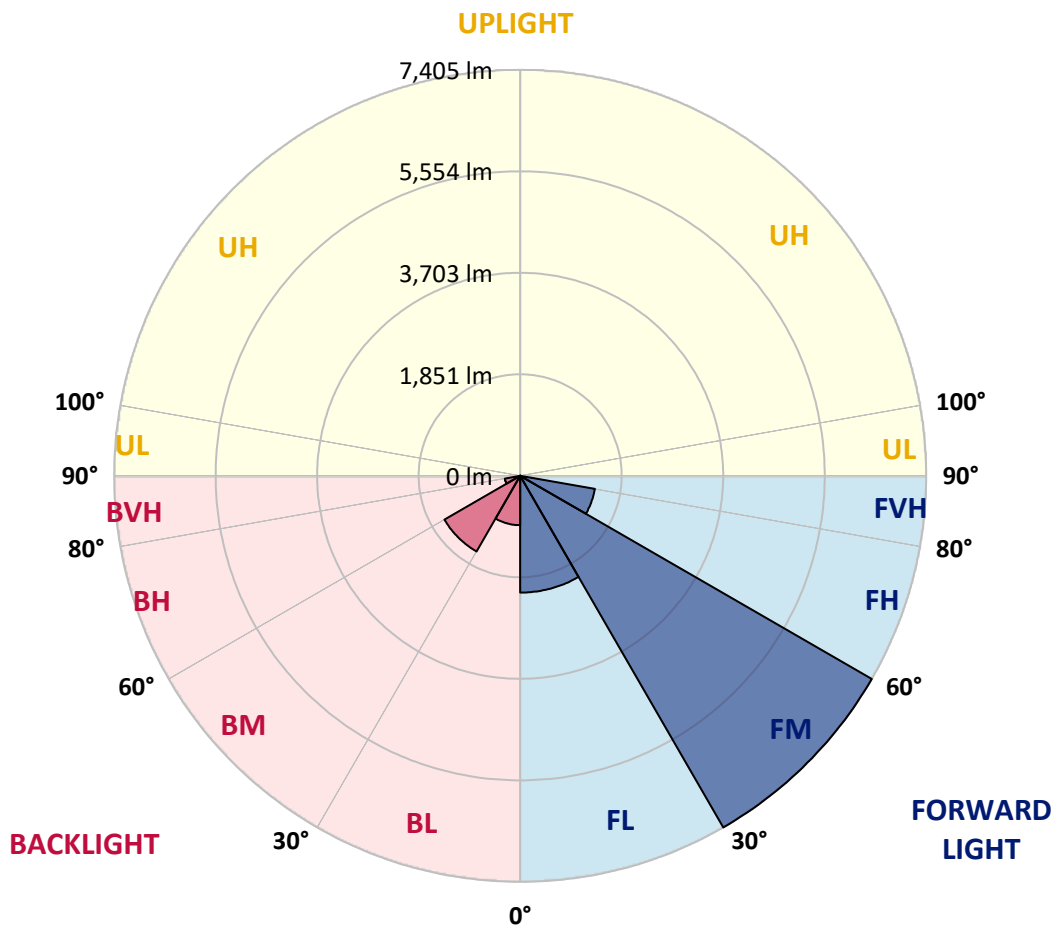


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.9	15.5			
FM (30°-60°)	7405.4	54.0			
FH (60°-80°)	1383.8	10.1			G1/1800
FVH (80°-90°)	10.8	0.1			G1/100
BL (0°-30°)	900.2	6.6	B2/1000		
BM (30°-60°)	1594.4	11.6	B2/2500		
BH (60°-80°)	284.8	2.1	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1
2.5°	7357.7	7379.3	7497.9	7646.3	7724.5	7902.5	7778.4	7810.8	7743.4	7506.0	7319.9
5°	7133.8	7131.1	7282.2	7649.0	7996.9	8350.2	8361.0	8172.2	7840.5	7476.4	6955.8
7.5°	6459.6	6564.7	6721.2	7306.4	7951.1	8215.4	8342.1	8121.0	7611.2	7090.7	6527.0
10°	5949.8	6003.7	6268.1	6974.7	7446.7	7800.0	7878.2	7751.5	7360.4	6710.4	6079.3
12.5°	5655.8	5682.8	5993.0	6586.3	7085.3	7346.9	7384.7	7444.0	7163.5	6554.0	5796.1
15°	5658.5	5680.1	6098.1	6594.4	6791.3	6721.2	6845.2	6842.5	6963.9	6524.3	6033.4
17.5°	6065.8	6090.1	6467.7	6713.1	6626.8	6462.3	6454.2	6578.2	6834.5	6893.8	6392.1
20°	6767.0	6823.7	7101.5	7088.0	6602.5	6270.8	6179.1	6273.5	6869.5	7206.7	7115.0
22.5°	7711.0	7789.2	7983.4	7611.2	6713.1	6141.3	6111.6	6295.0	7101.5	7905.2	7934.9
25°	8806.0	8938.2	9032.6	8555.2	7106.9	6365.2	6224.9	6540.5	7414.3	8663.1	8978.7
27.5°	9531.6	9669.1	9647.5	8965.2	7371.2	6424.5	6305.8	6599.8	7686.7	8843.8	9523.5
30°	10097.9	10181.6	10332.6	9186.3	7635.5	6591.7	6389.4	6850.6	7775.7	9156.7	10181.6
32.5°	10758.7	10815.4	10826.2	9577.4	8042.8	6802.1	6648.4	7163.5	8169.5	9456.0	10764.1
35°	11424.9	11508.5	11333.2	10060.2	8293.6	7193.2	7079.9	7705.6	8485.1	9766.2	11406.0
37.5°	12147.7	12190.9	11786.3	10259.8	8652.3	7829.7	7767.7	8290.9	9032.6	10327.2	12118.1
40°	12754.6	12795.1	12269.1	10505.2	9029.9	8719.7	8878.9	9407.5	9777.0	10691.3	12474.1
42.5°	13091.7	13186.1	12430.9	10370.4	9787.8	9728.4	10435.1	10621.2	10640.1	10793.8	12792.4
45°	13183.4	13140.3	12163.9	10480.9	10451.3	11387.2	12029.1	12274.5	11497.7	10982.6	12873.3
47.5°	12760.0	12816.6	11770.2	10383.8	11322.4	12644.0	13474.7	13930.5	12137.0	10818.1	12673.7
50°	12417.5	12344.6	11643.4	10313.7	11557.1	13237.4	14518.5	14621.0	12724.9	11020.4	12455.2
52.5°	12484.9	12530.7	11845.7	10499.8	11562.5	13272.4	14680.3	14610.2	12743.8	10974.5	12377.0
55°	12627.8	12425.5	11759.4	10089.9	10788.4	12293.4	13029.7	12921.8	11762.1	10486.3	12185.5
57.5°	10896.3	11209.2	10812.7	9008.3	8854.6	9261.8	9248.4	9580.1	8773.7	9024.5	11093.2
60°	8843.8	8897.7	9046.1	7705.6	6127.8	5987.6	5793.4	5583.0	5904.0	7716.4	10089.9
62.5°	7778.4	7713.7	8242.3	7009.8	4326.2	3622.2	3589.8	3719.3	4555.4	7360.4	9464.1
65°	5653.1	5734.0	6117.0	5440.1	3247.3	2764.5	2716.0	3099.0	3686.9	5898.6	7222.8
67.5°	3452.3	3608.7	3643.8	3355.2	2203.5	1750.4	1680.3	2028.2	2662.0	3816.4	4234.4
70°	1594.0	1782.8	1960.8	1831.3	1275.7	720.1	679.7	852.3	1343.2	2195.4	2246.7
72.5°	482.8	485.5	679.7	709.3	412.7	161.8	142.9	188.8	455.8	725.5	763.3
75°	35.1	37.8	91.7	105.2	78.2	40.5	43.2	51.2	97.1	161.8	121.4
77.5°	2.7	2.7	2.7	13.5	24.3	27.0	35.1	40.5	51.2	59.3	53.9
80°	2.7	0.0	2.7	10.8	18.9	27.0	32.4	37.8	40.5	45.9	40.5
82.5°	0.0	0.0	0.0	8.1	18.9	27.0	29.7	40.5	45.9	53.9	45.9
85°	0.0	0.0	0.0	8.1	18.9	29.7	27.0	13.5	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°	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1
2.5°	7352.3	7247.1	7007.1	6885.7	6599.8	6559.4	6278.9	6233.0	6138.6	6087.4	5963.3
5°	6726.6	6599.8	6208.7	5879.7	5496.7	5229.7	5024.7	4838.6	4730.7	4630.9	4676.8
7.5°	6216.8	5847.3	5413.1	4862.9	4420.5	4134.7	3821.8	3565.6	3414.5	3312.0	3336.3
10°	5682.8	5442.8	4838.6	4221.0	3686.9	3484.7	3239.2	3042.3	2829.3	2645.9	2559.5
12.5°	5515.6	5159.6	4401.7	3773.2	3368.7	3171.8	2891.3	2664.7	2392.3	2168.5	2090.3
15°	5545.2	5202.7	4283.0	3611.4	3134.0	2794.2	2459.8	2179.3	1879.9	1723.4	1642.5
17.5°	6028.0	5434.7	4361.2	3441.5	2807.7	2335.7	1923.0	1567.0	1343.2	1181.3	1146.3
20°	6621.4	5936.3	4528.4	3317.4	2540.7	1858.3	1405.2	1097.7	911.6	884.6	876.6
22.5°	7489.9	6756.2	4887.1	3233.8	2214.3	1448.3	962.9	798.3	747.1	741.7	744.4
25°	8703.5	7783.8	5278.2	3163.7	1968.9	1116.6	787.6	677.0	660.8	652.7	666.2
27.5°	9229.5	8404.2	5485.9	3012.7	1745.0	1006.0	776.8	671.6	625.7	612.2	620.3
30°	9879.5	8816.8	5812.3	2753.7	1416.0	828.0	725.5	730.9	709.3	641.9	620.3
32.5°	10742.6	9332.0	5976.8	2570.3	1264.9	685.1	531.3	488.2	544.8	555.6	574.5
35°	11295.5	9855.2	6060.4	2462.5	1186.7	585.3	450.4	410.0	396.5	399.2	410.0
37.5°	12323.1	10561.9	6165.6	2349.2	1127.4	509.8	407.3	369.5	350.6	350.6	361.4
40°	12938.0	11122.8	6308.5	2287.1	1068.1	463.9	369.5	337.1	321.0	321.0	326.3
42.5°	13091.7	11400.6	6260.0	2265.6	1000.6	453.1	337.1	312.9	294.0	291.3	288.6
45°	13366.8	11824.1	6268.1	2241.3	930.5	412.7	318.3	291.3	264.3	261.6	258.9
47.5°	13668.9	12128.9	6284.2	2146.9	863.1	345.2	331.7	269.7	237.3	232.0	232.0
50°	13410.0	12371.6	6424.5	2052.5	776.8	280.5	326.3	253.5	210.4	202.3	205.0
52.5°	13442.4	12657.5	6721.2	1920.3	668.9	223.9	264.3	240.0	191.5	178.0	180.7
55°	12924.5	12355.4	6761.6	1780.1	523.2	172.6	202.3	210.4	161.8	156.4	156.4
57.5°	11125.5	10462.1	5966.0	1442.9	345.2	142.9	145.6	183.4	140.2	134.9	137.6
60°	9520.8	8398.8	4800.8	952.1	215.8	113.3	105.2	186.1	124.1	121.4	129.5
62.5°	8679.3	6901.9	3641.1	590.7	148.3	86.3	72.8	151.0	107.9	107.9	118.7
65°	6270.8	4636.3	2117.2	310.2	105.2	67.4	53.9	86.3	89.0	91.7	97.1
67.5°	3883.8	2341.1	892.7	151.0	70.1	45.9	35.1	53.9	59.3	59.3	64.7
70°	1917.6	933.2	296.7	86.3	53.9	37.8	24.3	29.7	29.7	27.0	29.7
72.5°	593.4	280.5	75.5	53.9	37.8	24.3	13.5	10.8	5.4	0.0	2.7
75°	67.4	53.9	48.5	37.8	24.3	10.8	2.7	0.0	0.0	0.0	0.0
77.5°	40.5	45.9	45.9	37.8	24.3	8.1	0.0	0.0	0.0	0.0	0.0
80°	32.4	35.1	37.8	35.1	21.6	10.8	0.0	0.0	0.0	0.0	0.0
82.5°	40.5	45.9	51.2	45.9	29.7	13.5	5.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	8.1	2.7	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°	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1
2.5°	5912.0	5852.7	5936.3	5812.3	5809.6	5812.3	5777.2	5744.8	5796.1	5933.6	5947.1
5°	4512.3	4639.0	4679.5	4811.6	4738.8	4630.9	4652.5	4579.7	4757.7	4835.9	4773.9
7.5°	3285.1	3277.0	3549.4	3565.6	3600.6	3603.3	3597.9	3455.0	3309.3	3341.7	3438.8
10°	2548.8	2411.2	2543.4	2529.9	2616.2	2591.9	2627.0	2473.2	2524.5	2524.5	2586.5
12.5°	2076.8	1931.1	1906.9	1871.8	1906.9	1920.3	1933.8	1904.2	1990.5	2030.9	2074.1
15°	1585.9	1505.0	1483.4	1416.0	1426.8	1464.5	1496.9	1510.4	1483.4	1545.4	1550.8
17.5°	1151.7	1149.0	1162.5	1159.8	1149.0	1140.9	1138.2	1103.1	1092.3	1097.7	1119.3
20°	873.9	895.4	941.3	987.1	1011.4	981.7	941.3	882.0	857.7	863.1	865.8
22.5°	747.1	779.5	841.5	892.7	917.0	863.1	790.3	739.0	728.2	725.5	722.8
25°	677.0	714.7	760.6	776.8	774.1	741.7	687.8	666.2	660.8	655.4	631.1
27.5°	639.2	652.7	660.8	679.7	687.8	666.2	652.7	620.3	614.9	614.9	598.8
30°	617.6	609.5	620.3	606.8	617.6	601.5	604.2	604.2	590.7	596.1	596.1
32.5°	574.5	577.2	577.2	550.2	558.3	539.4	558.3	574.5	577.2	579.9	601.5
35°	420.7	469.3	493.6	493.6	501.7	488.2	485.5	466.6	442.3	418.1	407.3
37.5°	369.5	388.4	420.7	439.6	453.1	442.3	418.1	388.4	374.9	364.1	353.3
40°	329.0	345.2	366.8	388.4	415.4	401.9	364.1	350.6	334.4	334.4	323.7
42.5°	296.7	304.8	318.3	350.6	380.3	353.3	326.3	315.6	307.5	304.8	302.1
45°	267.0	269.7	283.2	310.2	345.2	318.3	291.3	277.8	280.5	283.2	280.5
47.5°	240.0	245.4	253.5	285.9	307.5	294.0	264.3	256.2	256.2	256.2	258.9
50°	207.7	221.2	237.3	264.3	280.5	272.4	248.1	237.3	232.0	232.0	234.6
52.5°	186.1	196.9	218.5	250.8	272.4	258.9	234.6	218.5	207.7	205.0	210.4
55°	161.8	180.7	215.8	240.0	269.7	256.2	229.3	210.4	191.5	188.8	188.8
57.5°	145.6	175.3	207.7	237.3	261.6	250.8	229.3	205.0	180.7	178.0	178.0
60°	137.6	169.9	202.3	229.3	261.6	245.4	226.6	199.6	172.6	172.6	169.9
62.5°	129.5	159.1	191.5	218.5	250.8	237.3	218.5	191.5	164.5	164.5	159.1
65°	107.9	137.6	159.1	183.4	218.5	205.0	186.1	167.2	145.6	140.2	142.9
67.5°	75.5	94.4	116.0	140.2	161.8	156.4	148.3	134.9	116.0	113.3	110.6
70°	37.8	51.2	70.1	94.4	113.3	107.9	102.5	91.7	80.9	78.2	78.2
72.5°	5.4	16.2	29.7	43.2	59.3	62.0	59.3	56.6	53.9	51.2	53.9
75°	0.0	0.0	0.0	10.8	24.3	29.7	35.1	40.5	40.5	35.1	43.2
77.5°	0.0	0.0	0.0	0.0	2.7	13.5	27.0	35.1	43.2	37.8	51.2
80°	0.0	0.0	0.0	0.0	2.7	16.2	27.0	37.8	43.2	37.8	53.9
82.5°	0.0	0.0	0.0	0.0	2.7	18.9	27.0	35.1	40.5	37.8	48.5
85°	0.0	0.0	0.0	0.0	8.1	16.2	10.8	5.4	2.7	2.7	8.1
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°	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1	6953.1
2.5°	6022.6	6214.1	6419.1	6497.3	6740.1	6923.5	7047.5	7314.5	7355.0	7357.7
5°	4838.6	4935.7	5286.3	5450.8	5812.3	6092.8	6392.1	6823.7	7112.3	7133.8
7.5°	3438.8	3708.5	3856.9	4285.7	4730.7	5170.3	5615.4	6117.0	6451.5	6459.6
10°	2767.2	2942.5	3206.9	3527.8	3902.7	4350.4	4943.8	5526.4	5866.2	5949.8
12.5°	2227.8	2535.3	2837.4	3169.1	3455.0	3792.1	4431.3	5208.1	5488.6	5655.8
15°	1715.4	1995.9	2351.9	2740.3	3063.9	3514.3	4242.5	5129.9	5601.9	5658.5
17.5°	1264.9	1515.8	1844.8	2211.6	2697.1	3336.3	4274.9	5526.4	5971.4	6065.8
20°	908.9	1054.6	1313.5	1739.6	2357.3	3128.6	4307.3	5928.2	6605.2	6767.0
22.5°	720.1	779.5	949.4	1327.0	1977.0	2910.2	4536.5	6696.9	7476.4	7711.0
25°	625.7	658.1	739.0	1046.5	1736.9	2888.6	4903.3	7619.3	8636.1	8806.0
27.5°	604.2	609.5	679.7	960.2	1607.5	2745.6	5043.6	8274.7	9358.9	9531.6
30°	636.5	722.8	728.2	811.8	1367.4	2462.5	5116.4	8908.5	9971.2	10097.9
32.5°	550.2	523.2	542.1	628.4	1202.9	2297.9	5254.0	9461.4	10669.7	10758.7
35°	383.0	401.9	445.0	544.8	1051.9	2125.3	5289.0	10071.0	11333.2	11424.9
37.5°	353.3	364.1	399.2	463.9	925.1	2028.2	5240.5	10516.0	12021.0	12147.7
40°	329.0	342.5	361.4	420.7	830.7	1920.3	5173.0	10917.9	12441.7	12754.6
42.5°	310.2	321.0	337.1	401.9	749.8	1812.5	5078.6	11484.3	12819.3	13091.7
45°	288.6	304.8	323.7	391.1	703.9	1739.6	5008.5	11449.2	13037.8	13183.4
47.5°	267.0	294.0	315.6	364.1	690.5	1704.6	5038.2	11317.0	12859.8	12760.0
50°	245.4	280.5	318.3	302.1	658.1	1634.4	5073.2	11497.7	12436.3	12417.5
52.5°	226.6	267.0	296.7	248.1	585.3	1567.0	5413.1	11735.1	12735.7	12484.9
55°	199.6	240.0	237.3	199.6	474.7	1515.8	5680.1	11740.5	12533.4	12627.8
57.5°	180.7	213.1	186.1	167.2	350.6	1267.6	5245.9	9844.4	10729.1	10896.3
60°	167.2	207.7	140.2	132.2	229.3	914.3	4579.7	7624.7	8528.2	8843.8
62.5°	153.7	196.9	110.6	107.9	159.1	650.0	3765.2	6381.3	7349.6	7778.4
65°	134.9	140.2	89.0	83.6	113.3	350.6	2292.5	4393.6	5494.0	5653.1
67.5°	110.6	107.9	72.8	67.4	75.5	169.9	1011.4	2200.8	3185.3	3452.3
70°	89.0	89.0	62.0	53.9	53.9	78.2	264.3	876.6	1440.3	1594.0
72.5°	64.7	67.4	48.5	43.2	40.5	37.8	43.2	175.3	377.6	482.8
75°	56.6	59.3	48.5	37.8	29.7	24.3	18.9	16.2	21.6	35.1
77.5°	62.0	62.0	51.2	35.1	27.0	18.9	10.8	5.4	5.4	2.7
80°	78.2	80.9	67.4	45.9	32.4	21.6	13.5	5.4	2.7	2.7
82.5°	83.6	91.7	75.5	56.6	40.5	24.3	13.5	2.7	0.0	0.0
85°	21.6	35.1	59.3	51.2	40.5	24.3	13.5	2.7	0.0	0.0
87.5°	0.0	2.7	8.1	8.1	10.8	10.8	8.1	2.7	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)