

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: P652286

Luminaire Tested: **GALN-SA3B-840-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652286  
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-SA3B-840-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 800mA 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: 10259.4 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

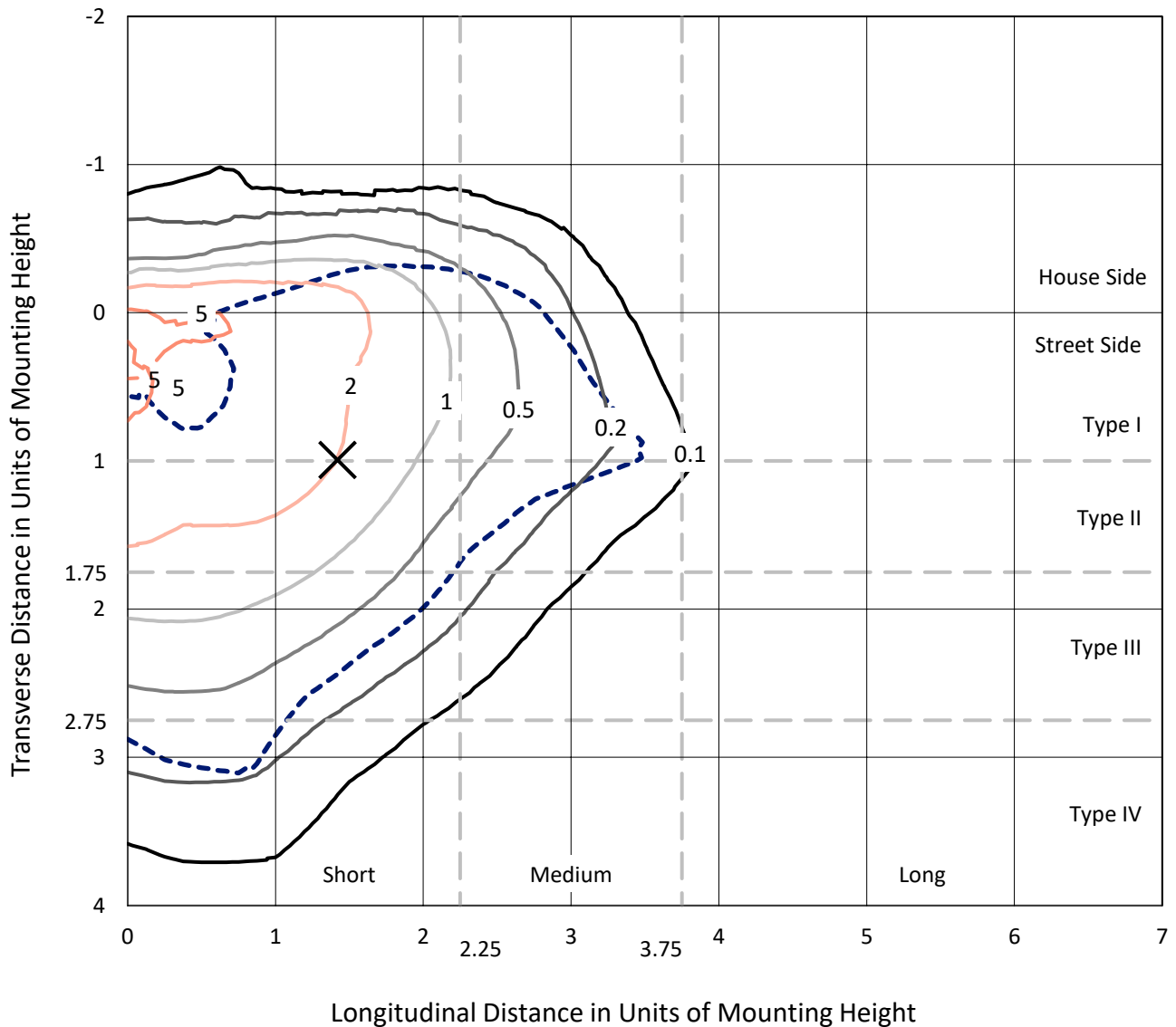
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

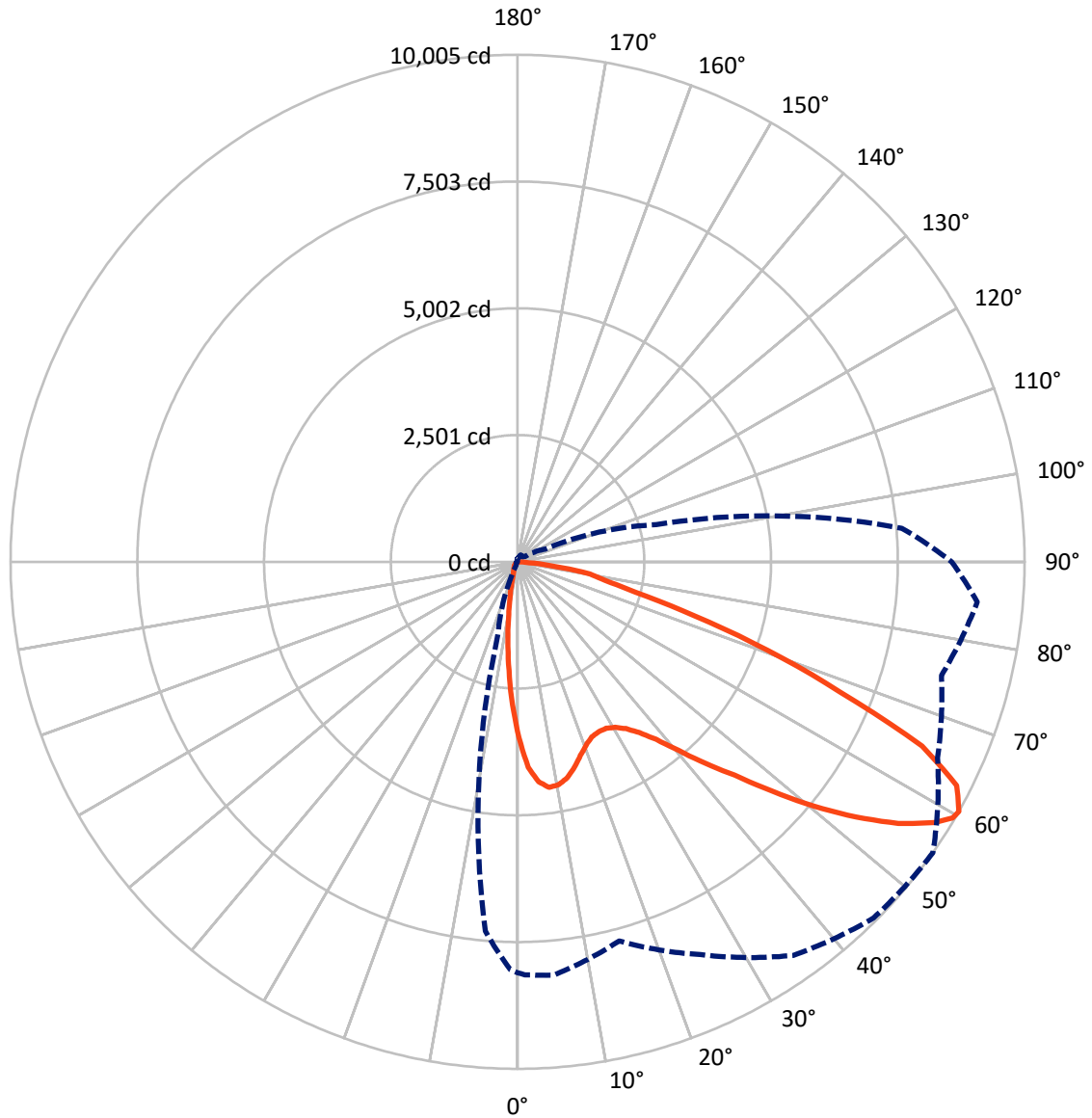
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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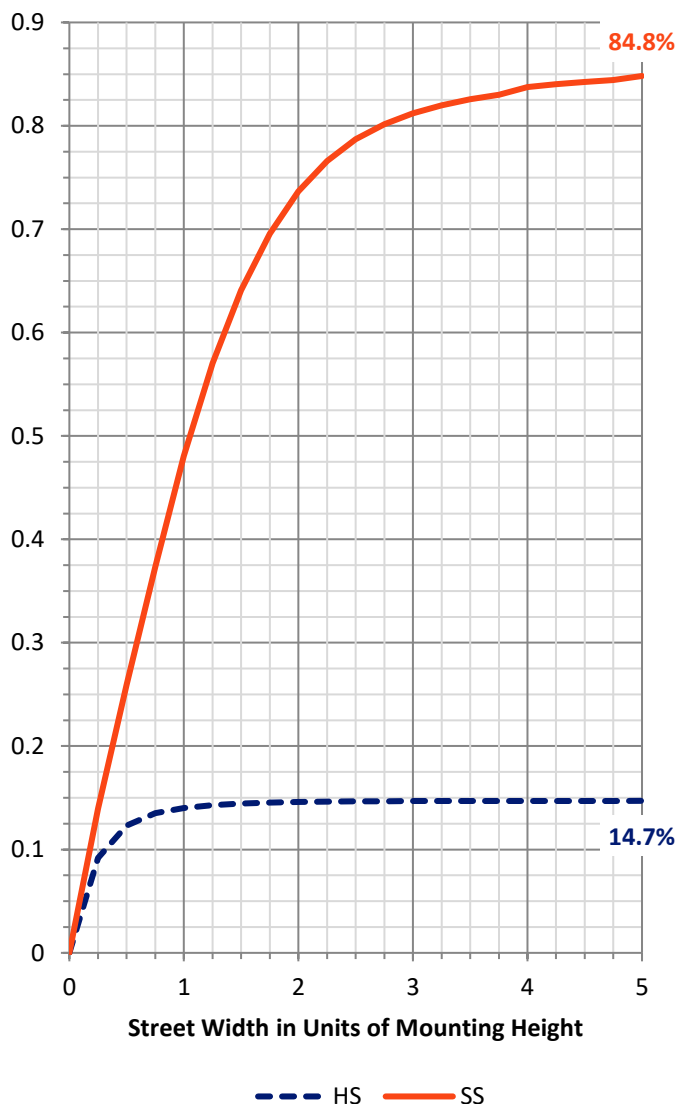
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1522.6	0.0	1522.6
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	8736.8	0.0	8736.8
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	10259.4	0.0	10259.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.2	2.5
10°-20°	506.6	4.9
20°-30°	749.8	7.3
30°-40°	1117.7	10.9
40°-50°	1636.8	16.0
50°-60°	2363.1	23.0
60°-70°	2485.8	24.2
70°-80°	1022.6	10.0
80°-90°	119.8	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°	10259.4	100.0
0°-180°	10259.4	100.0

**Coefficient of Utilization**



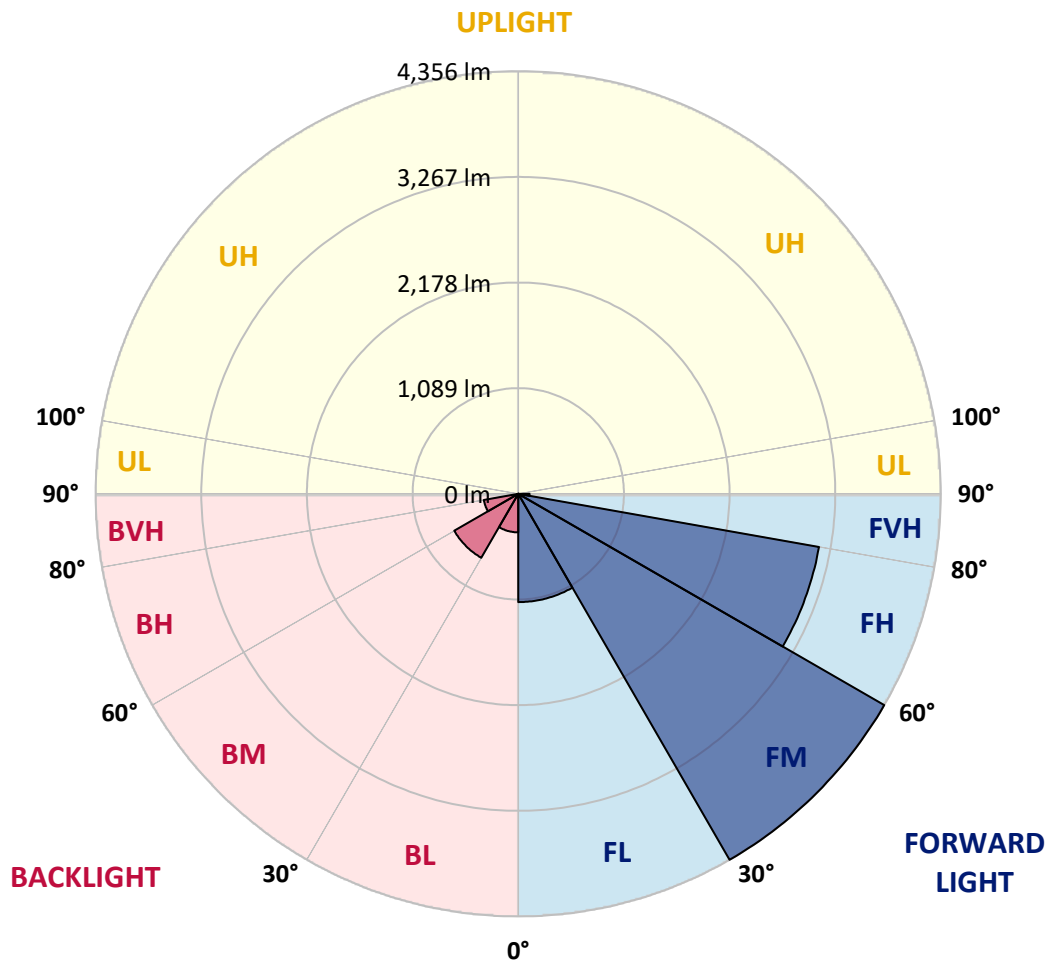
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1116.4	10.9			
FM (30°-60°)	4356.1	42.5			
FH (60°-80°)	3148.0	30.7			G2/5000
FVH (80°-90°)	116.2	1.1			G2/225
BL (0°-30°)	397.2	3.9	B1/500		
BM (30°-60°)	761.4	7.4	B1/1000		
BH (60°-80°)	360.4	3.5	B1/500		G1/500
BVH (80°-90°)	3.5	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°	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8
2.5°	3795.2	3788.9	3845.0	3936.6	4028.9	4077.1	4067.7	4063.7	3987.1	3931.0	3813.3
5°	3787.3	3819.7	3920.0	4167.9	4355.9	4446.7	4473.5	4360.6	4211.3	3995.0	3728.1
7.5°	3560.6	3600.9	3764.4	4152.1	4486.1	4683.6	4676.5	4495.6	4187.7	3852.9	3472.2
10°	3279.6	3326.9	3518.8	3989.5	4423.0	4683.6	4697.8	4468.8	4085.8	3656.2	3255.8
12.5°	3081.3	3137.4	3349.8	3837.8	4260.3	4516.9	4533.6	4367.7	4009.2	3580.4	3138.2
15°	3014.2	3067.1	3282.7	3761.2	4087.3	4225.6	4221.7	4204.2	3979.2	3598.6	3144.5
17.5°	3129.5	3172.9	3416.1	3795.9	3925.5	3911.2	3931.8	4015.5	3985.5	3750.9	3343.5
20°	3427.2	3471.4	3732.8	3902.6	3801.5	3711.5	3720.9	3860.7	4043.9	4037.6	3654.6
22.5°	3837.1	3912.1	4149.0	4109.5	3784.9	3587.5	3567.8	3749.3	4143.4	4367.7	4074.7
25°	4355.9	4431.6	4616.4	4439.6	3866.2	3558.3	3540.1	3715.5	4264.3	4689.9	4547.8
27.5°	4791.8	4849.4	5033.4	4761.0	3986.3	3570.9	3540.9	3720.2	4362.2	4963.9	4946.5
30°	5140.8	5183.4	5291.7	4911.0	4089.7	3626.2	3591.5	3789.6	4405.6	5097.4	5269.5
32.5°	5421.9	5493.7	5527.7	5071.3	4238.2	3730.4	3671.2	3923.1	4511.5	5262.4	5608.3
35°	5743.4	5826.3	5782.8	5224.5	4434.0	3893.1	3820.5	4139.5	4671.8	5414.8	6001.5
37.5°	6150.8	6246.4	6076.6	5385.6	4641.0	4137.9	4103.9	4443.5	4915.0	5632.8	6423.2
40°	6572.5	6627.8	6361.7	5581.5	4895.2	4494.1	4526.4	4895.2	5233.2	5894.1	6871.8
42.5°	6901.8	6953.9	6654.6	5745.7	5155.0	4916.6	5051.6	5440.1	5598.0	6161.8	7206.6
45°	7153.7	7198.0	6857.6	5924.9	5505.6	5528.6	5783.6	6001.5	5963.6	6325.3	7464.8
47.5°	7349.5	7387.4	7013.9	6117.6	6030.7	6277.1	6667.3	6759.6	6342.7	6502.2	7698.6
50°	7430.1	7441.2	7062.9	6363.3	6627.0	7231.1	7637.8	7581.7	6777.0	6698.8	7947.3
52.5°	7535.1	7532.8	7202.7	6597.0	7187.6	8083.9	8489.8	8362.7	7268.2	6993.4	8226.8
55°	7810.7	7813.9	7502.0	6928.7	7665.4	8772.6	9206.8	9114.4	7786.2	7490.9	8553.0
57.5°	8145.5	8157.4	7927.6	7316.4	8121.8	9271.6	9742.2	9706.7	8486.7	8044.4	8860.9
59°	8189.0	8212.6	8128.9	7589.6	8392.7	9424.8	9925.5	9960.2	8861.8	8409.2	9027.6
60°	8110.0	8149.5	8187.4	7744.3	8551.5	9480.1	9936.5	10004.5	9143.7	8657.3	9103.4
62.5°	7765.7	7828.1	8018.3	8220.5	8749.6	9307.9	9583.5	9725.7	9492.7	9308.7	9110.5
65°	7314.8	7347.1	7622.0	8305.0	8365.1	8504.0	8589.3	8771.7	9073.4	9559.8	8784.3
67.5°	6575.6	6671.2	7007.6	7814.7	7230.2	7066.0	7044.7	6863.1	7646.5	8961.3	7980.5
70°	5432.2	5474.8	5889.4	6406.7	5456.7	5203.9	5305.0	5237.2	5927.3	7714.3	6423.2
72.5°	4107.9	4204.2	4609.4	5106.8	3713.1	3385.4	3664.1	3638.8	4452.2	6199.8	4412.7
75°	2922.6	2985.0	3501.4	3996.5	2600.4	2203.2	2303.5	2397.4	3108.2	4895.2	2607.5
77.5°	2008.1	2061.9	2449.6	2643.0	1896.8	1817.1	1662.2	1753.1	2036.6	2904.4	1419.0
80°	1211.4	1209.0	1464.1	1511.4	1321.1	1534.3	1287.2	1445.1	1231.1	1242.9	549.6
82.5°	786.5	778.6	895.5	976.1	735.2	773.1	518.8	747.8	802.3	346.7	173.8
85°	352.2	367.2	430.3	567.8	322.2	171.4	105.8	229.8	342.0	174.5	0.0
87.5°	36.3	28.4	75.8	138.2	44.2	4.7	15.8	7.9	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°	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8
2.5°	3758.8	3713.1	3576.4	3448.5	3338.8	3204.5	3117.7	2981.0	2898.1	2872.9	2876.8
5°	3608.1	3476.2	3216.3	3008.7	2777.3	2645.4	2444.9	2252.2	2147.9	2109.2	2091.8
7.5°	3292.2	3150.8	2837.3	2511.1	2263.2	2031.9	1882.6	1712.8	1596.7	1501.2	1484.6
10°	3057.6	2872.0	2483.6	2132.9	1937.1	1763.3	1614.1	1444.3	1307.7	1198.8	1168.7
12.5°	2917.1	2709.4	2275.8	1982.1	1796.5	1618.1	1423.8	1227.2	1087.4	969.8	915.3
15°	2891.8	2650.9	2217.4	1873.9	1644.9	1429.3	1171.1	958.7	814.9	703.6	669.7
17.5°	3044.2	2756.0	2208.7	1761.0	1446.7	1141.1	872.6	696.5	534.6	472.2	447.7
20°	3315.9	2941.6	2208.0	1629.9	1242.9	878.9	612.8	454.1	388.5	358.5	344.3
22.5°	3686.2	3194.3	2249.8	1517.0	1031.3	648.3	437.5	361.7	323.8	299.3	293.8
25°	4138.7	3568.5	2352.4	1440.4	869.4	508.6	360.9	309.6	278.0	266.9	262.1
27.5°	4540.6	3927.0	2465.4	1361.4	753.4	450.1	334.8	283.5	258.2	249.5	242.5
30°	4887.3	4252.4	2519.9	1257.1	660.2	412.2	339.6	303.3	270.0	244.0	232.2
32.5°	5176.4	4502.0	2555.4	1162.4	581.2	337.2	268.5	234.6	219.5	210.1	202.2
35°	5538.0	4772.0	2534.1	1108.7	540.9	307.2	244.8	202.2	176.9	157.9	150.0
37.5°	5917.0	5042.1	2496.9	1064.5	522.8	285.1	233.0	191.9	164.2	144.5	134.2
40°	6309.5	5292.4	2453.5	1023.4	506.2	270.9	225.8	183.2	155.6	134.2	123.2
42.5°	6668.8	5536.4	2436.1	996.6	479.4	273.2	220.3	179.2	146.8	124.8	115.3
45°	6959.4	5767.8	2459.8	982.4	450.1	269.3	221.9	174.5	139.8	118.4	109.0
47.5°	7269.8	6094.7	2536.5	968.2	421.7	250.4	233.7	173.8	136.6	114.5	104.2
50°	7630.6	6513.3	2711.7	933.4	386.9	229.8	248.8	172.9	132.6	109.8	99.5
52.5°	8111.5	6988.6	2892.6	872.6	336.4	210.1	237.7	170.6	124.8	104.2	93.9
55°	8543.6	7489.3	3045.8	800.7	272.4	181.7	214.0	160.3	111.3	94.8	85.3
57.5°	8722.0	7772.0	3041.1	701.2	218.0	159.5	176.1	146.8	97.1	83.7	75.8
59°	8656.4	7736.4	2939.2	627.8	199.0	147.7	146.1	145.3	90.8	75.8	69.5
60°	8564.1	7606.9	2829.4	591.5	187.1	139.8	134.2	143.7	85.3	71.1	64.8
62.5°	8210.3	7070.0	2465.4	529.9	171.4	118.4	107.4	121.6	75.8	61.6	56.1
65°	7697.8	6244.8	2087.1	512.5	166.6	97.9	89.2	86.9	64.8	52.1	47.3
67.5°	6698.1	5284.5	1690.7	500.6	168.2	82.2	78.2	65.5	53.7	43.4	40.3
70°	5362.7	4120.6	1384.3	487.2	169.8	67.1	65.5	52.1	43.4	36.3	33.1
72.5°	3258.2	2442.4	1089.8	423.3	165.0	53.7	58.4	39.4	31.6	26.1	24.5
75°	2014.4	1671.7	676.0	329.3	109.0	39.4	41.0	24.5	21.4	16.6	16.6
77.5°	1167.1	1055.8	241.6	118.4	48.2	23.7	18.2	12.6	11.9	7.1	7.1
80°	484.1	387.7	83.7	40.3	26.1	11.0	4.0	0.8	0.0	0.0	0.0
82.5°	141.4	125.6	22.9	18.2	7.9	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°	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8
2.5°	2809.7	2783.6	2771.8	2812.1	2775.0	2822.3	2786.0	2801.8	2848.4	2868.9	2921.8
5°	2102.9	2076.1	2063.4	2124.2	2121.1	2151.1	2147.9	2175.6	2199.2	2146.3	2200.8
7.5°	1464.9	1446.7	1476.7	1524.1	1574.6	1558.0	1558.0	1520.9	1533.6	1525.7	1523.3
10°	1114.2	1051.8	1036.0	1034.5	1053.4	1057.4	1036.0	984.7	1003.6	1009.2	1042.3
12.5°	876.6	828.4	755.0	721.7	713.1	720.1	649.9	604.9	626.2	613.6	646.0
15°	628.6	589.1	545.6	508.6	498.3	484.1	407.5	353.8	347.4	349.9	355.3
17.5°	448.5	421.7	421.7	382.2	360.9	318.2	279.5	255.8	253.5	255.8	259.8
20°	330.8	316.6	315.1	304.8	281.1	252.7	225.8	221.1	219.5	223.5	225.1
22.5°	285.1	270.0	257.4	256.7	234.6	210.8	198.2	191.9	192.7	194.3	198.2
25°	255.1	239.3	225.8	218.0	202.2	185.6	173.8	170.6	170.6	172.9	173.8
27.5°	233.7	214.0	202.2	191.1	176.9	162.6	152.4	150.0	148.4	150.0	154.0
30°	218.7	199.0	184.0	167.4	156.3	143.0	134.2	131.1	130.3	131.1	134.2
32.5°	187.1	175.3	163.5	148.4	135.1	126.3	116.9	111.3	111.3	112.9	116.1
35°	141.4	135.1	134.2	130.3	119.3	109.8	98.7	93.2	93.2	96.4	97.9
37.5°	124.8	112.9	111.3	109.8	105.0	92.4	82.2	77.4	76.6	79.0	82.2
40°	113.7	100.2	93.2	91.6	92.4	78.2	67.1	62.4	62.4	63.2	66.4
42.5°	105.0	89.2	76.6	75.0	78.2	65.5	54.5	49.8	49.8	49.8	53.7
45°	97.9	79.7	64.8	56.9	61.6	53.7	44.2	39.4	37.9	39.4	41.0
47.5°	93.2	72.7	56.9	45.8	45.8	42.6	35.6	30.0	28.4	29.2	31.6
50°	89.2	66.4	48.2	37.1	33.1	34.0	26.8	22.9	21.4	21.4	23.7
52.5°	82.9	60.0	41.9	31.6	25.2	22.9	19.8	16.6	15.8	16.6	18.2
55°	75.0	54.5	36.3	26.1	19.8	15.8	14.2	11.9	11.0	11.9	14.2
57.5°	66.4	45.8	29.2	20.5	13.5	10.3	9.5	7.9	6.3	7.1	8.7
59°	60.8	41.0	25.2	16.6	10.3	7.1	7.1	5.6	4.0	4.7	7.1
60°	58.4	37.9	21.4	14.2	8.7	5.6	5.6	4.0	2.4	3.2	5.6
62.5°	49.8	31.6	16.6	8.7	4.0	0.8	2.4	0.8	0.0	0.8	2.4
65°	41.9	25.2	11.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
67.5°	34.7	18.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	27.7	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.9	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.7	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°	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8	3473.8
2.5°	2925.0	3037.9	3107.4	3238.4	3372.7	3476.2	3605.7	3721.8	3770.0	3795.2
5°	2256.1	2413.2	2546.7	2746.5	2932.1	3158.0	3387.0	3657.0	3760.4	3787.3
7.5°	1583.3	1743.6	1883.4	2114.8	2379.3	2681.8	3024.5	3367.2	3518.0	3560.6
10°	1143.4	1314.8	1485.4	1716.7	1963.9	2291.6	2648.6	3072.6	3246.3	3279.6
12.5°	721.7	905.8	1183.0	1468.8	1730.2	1993.9	2367.4	2828.6	3020.5	3081.3
15°	418.6	555.9	765.2	1138.0	1470.4	1819.4	2226.9	2737.0	2951.8	3014.2
17.5°	280.3	327.7	471.5	756.5	1195.6	1658.3	2191.4	2812.1	3049.7	3129.5
20°	236.2	257.4	308.0	461.2	920.7	1514.6	2200.8	3015.7	3327.7	3427.2
22.5°	207.7	227.4	259.8	331.7	642.8	1336.1	2245.8	3307.1	3709.9	3837.1
25°	183.2	202.9	231.4	274.8	431.9	1130.1	2344.5	3733.6	4216.1	4355.9
27.5°	162.6	180.8	205.3	242.5	332.4	900.2	2432.2	4149.0	4678.1	4791.8
30°	143.7	158.7	182.4	210.8	276.4	694.2	2476.4	4512.2	5014.5	5140.8
32.5°	124.8	139.0	161.9	184.8	227.4	529.1	2445.6	4779.2	5341.4	5421.9
35°	106.6	121.6	140.5	161.9	196.6	427.2	2291.6	5079.2	5680.1	5743.4
37.5°	91.6	104.2	124.0	140.5	177.7	342.0	2105.3	5349.3	6060.0	6150.8
40°	77.4	90.0	109.8	124.8	163.5	269.3	1937.1	5649.3	6460.3	6572.5
42.5°	63.2	78.2	95.5	120.0	140.5	205.3	1733.3	5892.6	6761.2	6901.8
45°	50.5	67.1	86.0	119.3	122.4	156.3	1536.7	6082.1	7027.3	7153.7
47.5°	40.3	56.9	82.9	111.3	100.2	124.0	1424.6	6280.3	7248.4	7349.5
50°	32.4	47.3	86.9	97.9	83.7	105.0	1421.5	6501.4	7363.0	7430.1
52.5°	26.1	38.7	73.4	75.0	71.1	92.4	1506.7	6750.2	7479.9	7535.1
55°	22.1	32.4	48.2	55.3	64.0	83.7	1570.7	7133.2	7758.6	7810.7
57.5°	17.4	27.7	37.1	44.2	56.9	76.6	1579.3	7428.5	8111.5	8145.5
59°	15.0	23.7	33.1	39.4	52.1	71.8	1543.8	7446.6	8134.5	8189.0
60°	12.6	21.4	29.2	37.1	48.2	68.0	1505.1	7314.8	8049.2	8110.0
62.5°	9.5	16.6	21.4	30.0	39.4	58.4	1321.9	6854.4	7723.1	7765.7
65°	6.3	11.9	15.8	22.1	30.8	50.5	1077.2	6257.4	7219.2	7314.8
67.5°	4.0	8.7	12.6	16.6	25.2	42.6	767.6	5365.8	6514.0	6575.6
70°	2.4	5.6	9.5	13.5	19.8	34.0	455.7	4241.3	5419.6	5432.2
72.5°	1.6	4.0	6.3	9.5	15.8	30.8	221.1	2764.6	3957.1	4107.9
75°	0.8	2.4	4.0	7.1	12.6	25.2	105.8	1847.1	2879.2	2922.6
77.5°	0.0	0.8	2.4	4.7	9.5	19.8	61.6	1213.0	1963.1	2008.1
80°	0.0	0.0	1.6	4.0	7.1	12.6	37.1	715.4	1189.3	1211.4
82.5°	0.0	0.0	0.8	3.2	4.7	9.5	18.9	314.3	778.6	786.5
85°	0.0	0.0	0.8	3.2	4.0	6.3	7.1	42.6	345.9	352.2
87.5°	0.0	0.0	0.8	4.0	4.0	4.0	4.0	2.4	29.2	36.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)