

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: P458787

Luminaire Tested: **GALN-SA3B-735-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-735-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13640 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

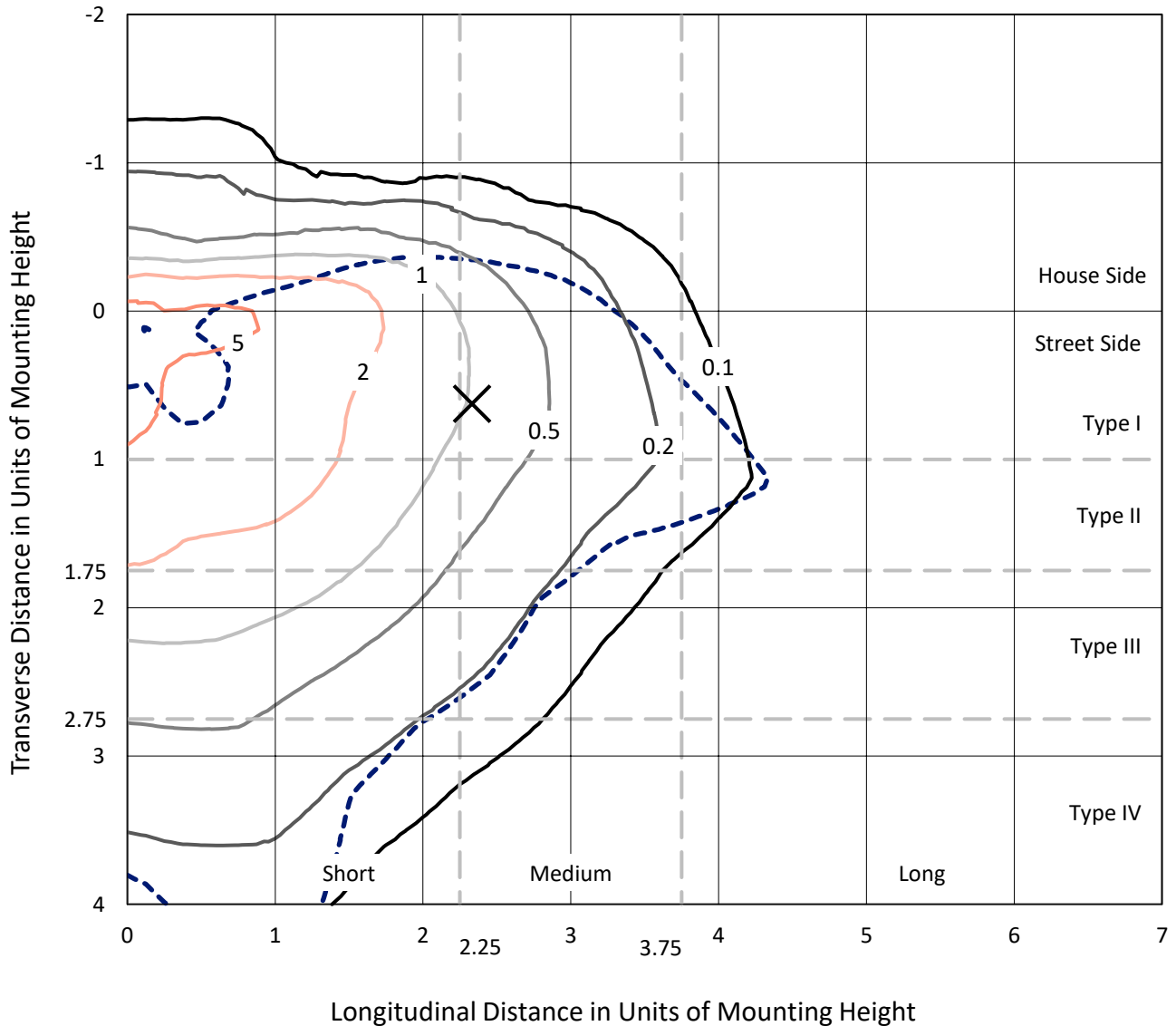
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

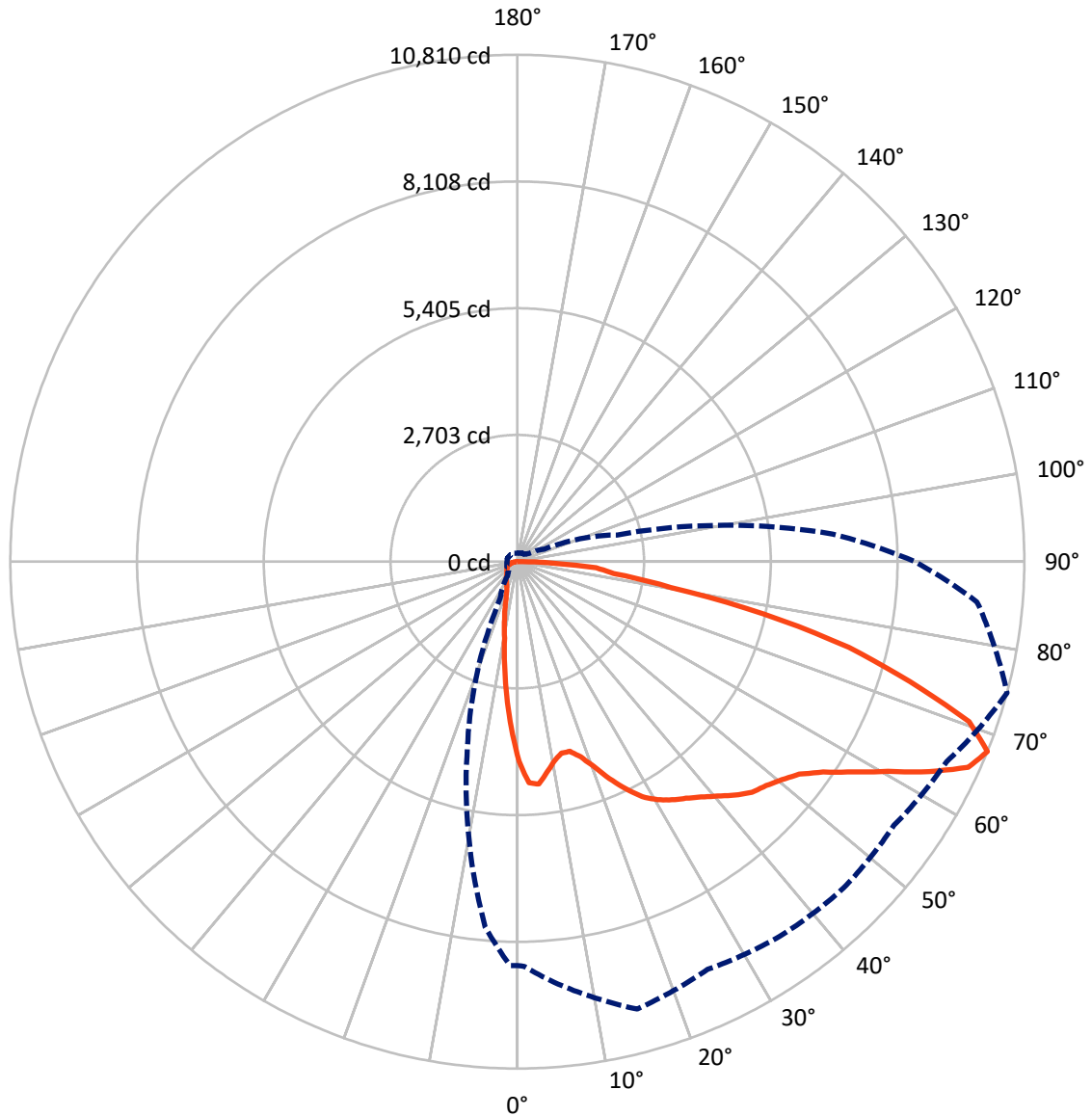
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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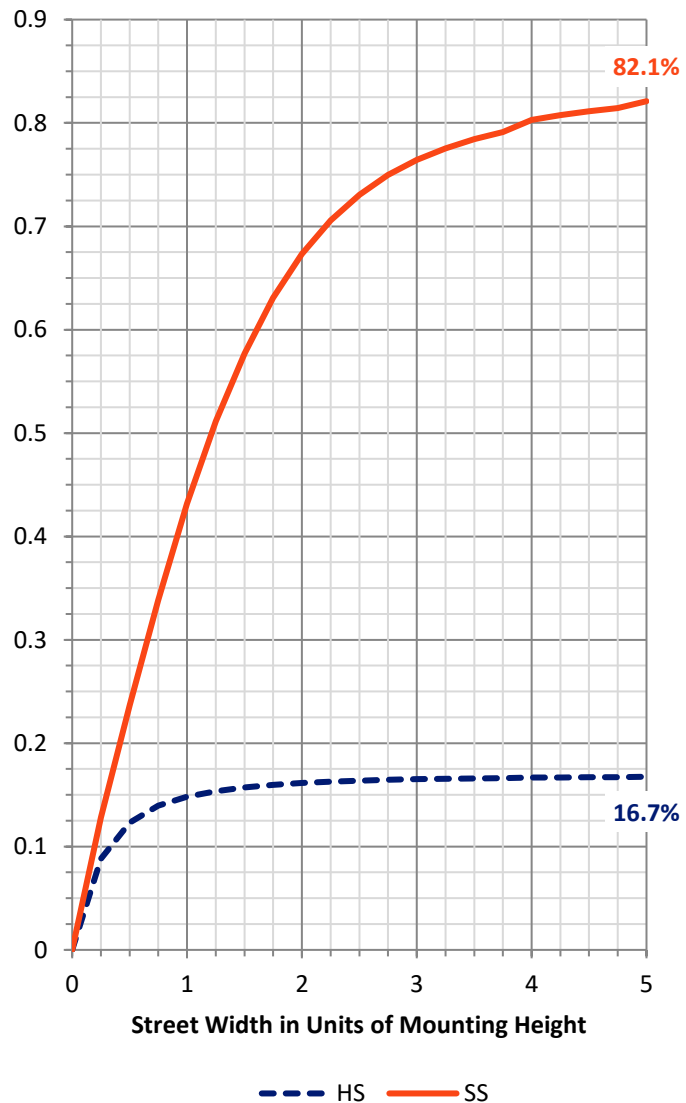
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2305.4	0.0	2305.4
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	11334.5	0.0	11334.5
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	13640.0	0.0	13640.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.2	2.4
10°-20°	674.1	4.9
20°-30°	970.0	7.1
30°-40°	1397.1	10.2
40°-50°	1962.5	14.4
50°-60°	2737.1	20.1
60°-70°	3254.2	23.9
70°-80°	1916.5	14.1
80°-90°	405.3	3.0
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°	13640.0	100.0
0°-180°	13640.0	100.0



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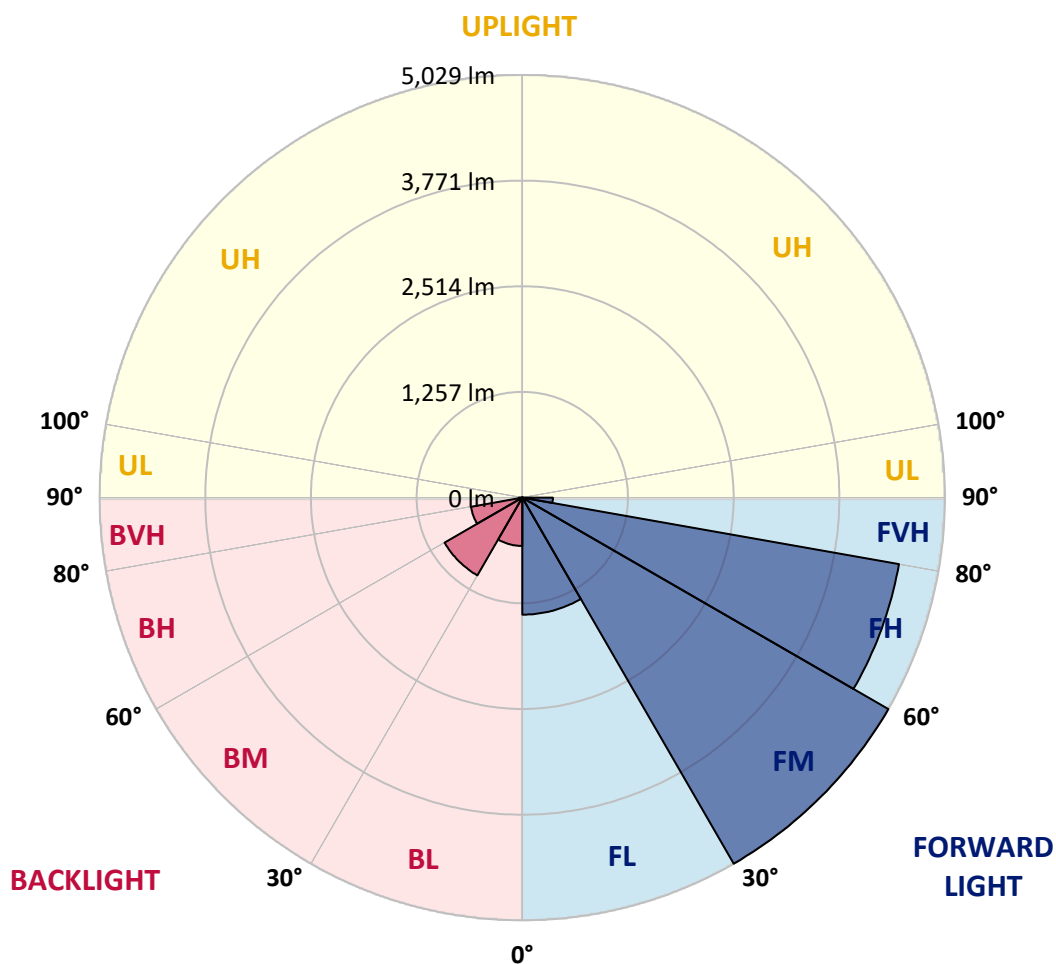
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1392.3	10.2			
FM	(30°-60°)	5028.6	36.9			
FH	(60°-80°)	4550.4	33.4			G2/5000
FVH	(80°-90°)	363.4	2.7			G3/500
BL	(0°-30°)	575.1	4.2	B2/1000		
BM	(30°-60°)	1068.1	7.8	B2/2500		
BH	(60°-80°)	620.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	41.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5
2.5°	4594.7	4600.8	4640.2	4754.8	4833.5	4862.4	4882.5	4844.9	4808.1	4718.9	4584.2
5°	4580.7	4616.6	4718.9	4976.1	5179.0	5266.5	5292.7	5179.9	4993.6	4764.4	4488.9
7.5°	4313.1	4361.2	4518.6	4949.8	5307.6	5512.3	5485.1	5281.3	4945.5	4537.0	4152.1
10°	3995.6	4048.9	4238.7	4760.0	5221.0	5502.6	5502.6	5254.2	4808.1	4322.7	3879.2
12.5°	3743.6	3799.6	4016.5	4565.0	5040.8	5307.6	5352.2	5138.8	4709.3	4187.1	3699.9
15°	3660.6	3714.8	3948.3	4446.9	4850.1	5012.8	5027.7	4957.7	4661.2	4196.7	3692.0
17.5°	3763.8	3833.7	4069.9	4481.9	4675.2	4684.8	4696.2	4751.3	4666.4	4372.5	3851.2
20°	4062.0	4137.3	4383.9	4594.7	4522.1	4422.4	4428.5	4570.2	4728.5	4662.9	4231.7
22.5°	4492.4	4558.0	4810.8	4793.3	4457.4	4251.8	4209.0	4406.7	4820.4	5025.1	4636.7
25°	4956.8	5033.8	5324.2	5088.0	4475.8	4150.4	4123.3	4310.4	4915.7	5363.6	5104.7
27.5°	5488.6	5563.9	5793.0	5385.4	4572.0	4142.5	4110.1	4301.7	5001.4	5676.7	5551.6
30°	5884.0	5953.1	6108.8	5635.6	4690.1	4195.0	4154.7	4370.8	5074.9	5891.0	5987.2
32.5°	6194.5	6266.2	6351.1	5791.3	4845.7	4290.3	4216.0	4496.7	5171.1	6054.6	6310.0
35°	6518.1	6603.0	6596.9	5929.5	4990.9	4400.5	4327.9	4678.7	5322.5	6197.1	6719.3
37.5°	6928.4	6962.5	6918.7	6053.7	5165.0	4599.1	4558.9	4949.0	5537.6	6369.4	7197.8
40°	7344.7	7412.9	7188.2	6204.1	5376.7	4972.6	4968.2	5348.7	5793.0	6571.5	7661.4
42.5°	7701.6	7759.3	7440.1	6335.3	5633.0	5428.3	5461.5	5884.9	6128.0	6805.9	8034.0
45°	7970.1	8021.7	7672.7	6462.2	5970.6	5954.8	6150.8	6459.5	6550.5	7016.7	8252.6
47.5°	8198.4	8248.3	7834.5	6654.6	6387.8	6583.7	6924.9	7058.7	6911.8	7137.4	8497.6
50°	8390.8	8405.7	7945.6	6883.8	6905.6	7354.3	7685.0	7771.6	7268.6	7310.6	8710.1
52.5°	8591.1	8571.9	8137.2	7172.4	7465.4	8085.6	8326.1	8416.2	7610.6	7524.0	9019.7
55°	9039.9	9058.2	8566.7	7536.3	8031.3	8803.7	9120.3	9033.7	7989.4	7916.8	9413.3
57.5°	9582.2	9566.4	9171.1	8105.7	8607.8	9471.9	9708.1	9569.0	8494.9	8456.4	9812.2
60°	9793.0	9814.0	9676.6	8718.0	9176.3	10057.1	10298.5	10082.5	9101.1	9083.6	10113.1
62.5°	9581.3	9699.4	9792.1	9262.9	9660.9	10487.5	10727.1	10480.5	9733.5	9860.3	10323.9
65°	9159.7	9185.1	9500.8	9724.7	9894.4	10558.3	10683.4	10552.2	10261.8	10567.9	10314.3
67.5°	8612.1	8634.0	9004.0	9876.1	9593.5	9753.6	9841.1	9802.6	10098.2	10810.2	9839.3
70°	8090.8	8073.3	8464.3	9490.3	8351.5	8108.3	8180.9	8060.2	8713.6	10218.1	8907.8
72.5°	7076.2	7139.2	7559.0	8418.0	6612.6	6217.3	6375.6	6063.3	6701.8	8751.2	7230.1
75°	5542.9	5557.7	6258.4	7064.8	4988.3	4364.7	4579.0	4448.6	5133.5	7300.1	4992.7
77.5°	3838.1	3804.9	4558.0	5395.9	3557.3	3195.2	3198.7	3136.6	3584.5	5374.9	3392.0
80°	2437.7	2387.0	2853.2	3333.4	2444.7	2615.3	2529.6	2527.0	2333.7	3315.9	2051.1
82.5°	1317.3	1373.3	1802.7	2089.6	1753.7	2021.4	1852.6	1798.3	1601.5	2075.6	1312.0
85°	600.0	652.5	961.3	1421.4	1332.1	1347.0	900.0	1061.9	1325.1	1685.5	700.6
87.5°	58.6	75.2	198.6	670.9	454.8	358.6	133.8	258.0	333.3	599.2	56.0
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°	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5
2.5°	4529.1	4483.6	4328.8	4201.1	4065.5	3962.3	3827.6	3737.5	3675.4	3581.8	3570.5
5°	4320.9	4209.9	3940.4	3665.8	3428.8	3250.3	3069.3	2903.1	2805.1	2774.5	2735.1
7.5°	3970.2	3783.0	3436.6	3121.7	2849.7	2583.8	2379.1	2233.9	2136.9	2080.0	2011.8
10°	3681.5	3464.6	3043.0	2657.3	2433.4	2268.1	2087.9	1932.2	1812.3	1710.0	1654.0
12.5°	3487.4	3242.5	2768.4	2455.2	2282.0	2106.2	1895.4	1720.5	1543.8	1427.5	1377.6
15°	3428.8	3169.9	2683.5	2354.6	2106.2	1876.2	1640.0	1411.7	1236.8	1126.6	1089.9
17.5°	3572.2	3259.1	2682.7	2220.8	1899.8	1625.2	1322.5	1108.2	928.9	846.7	820.5
20°	3839.9	3430.5	2690.5	2088.7	1675.9	1289.3	962.2	786.3	700.6	665.6	652.5
22.5°	4213.4	3692.0	2714.1	1958.4	1431.0	990.1	720.7	631.5	600.9	594.8	592.2
25°	4673.4	4015.7	2793.7	1841.2	1224.6	755.7	602.7	562.4	544.9	538.8	537.9
27.5°	5096.8	4433.8	2890.0	1740.6	1025.1	651.6	544.9	510.8	493.3	492.4	494.2
30°	5479.0	4783.6	2970.4	1627.8	873.8	579.0	507.3	473.2	456.6	455.7	461.0
32.5°	5809.6	5071.4	3029.9	1516.7	789.8	534.4	473.2	436.5	422.5	419.8	422.5
35°	6163.0	5358.3	3002.8	1430.1	741.7	497.7	447.8	412.0	395.4	387.5	387.5
37.5°	6566.3	5654.0	2956.4	1358.4	719.9	467.1	426.0	391.0	374.4	366.5	365.6
40°	7006.2	5949.6	2892.6	1294.5	698.0	448.7	411.1	374.4	354.2	346.4	344.6
42.5°	7394.6	6202.4	2840.1	1252.5	662.1	452.2	398.0	362.1	336.8	326.3	325.4
45°	7732.2	6456.9	2830.5	1228.1	632.4	447.0	394.5	352.5	322.8	311.4	309.6
47.5°	7996.4	6721.9	2885.6	1214.1	600.0	419.0	417.2	346.4	310.5	298.3	296.5
50°	8318.2	7098.1	3011.5	1185.2	570.3	392.7	440.8	345.5	300.9	285.1	280.8
52.5°	8746.8	7587.9	3182.1	1133.6	527.4	368.2	420.7	345.5	289.5	273.8	268.5
55°	9395.0	8212.4	3349.2	1061.0	467.1	335.9	379.6	335.0	272.9	258.9	255.4
57.5°	9824.4	8669.0	3455.9	960.4	391.9	312.3	327.1	318.4	256.3	241.4	241.4
60°	9846.3	8791.4	3405.1	833.6	344.6	290.4	284.3	321.0	241.4	225.7	223.9
62.5°	9594.4	8491.4	3141.0	719.9	319.3	266.8	257.2	281.6	226.5	210.8	208.2
65°	9200.8	7726.1	2682.7	665.6	305.3	245.8	231.8	230.9	210.8	195.9	192.4
67.5°	8477.4	6751.7	2204.2	634.1	298.3	222.2	209.0	204.7	192.4	180.2	178.4
70°	7411.2	5654.8	1767.7	621.0	294.8	197.7	187.2	181.9	171.4	161.8	160.9
72.5°	5765.9	4586.8	1459.0	612.3	293.0	174.9	163.6	156.6	150.4	141.7	141.7
75°	4141.6	3374.5	1113.5	551.9	271.2	150.4	138.2	133.8	125.1	118.1	119.8
77.5°	2610.9	2272.4	733.0	405.9	209.9	120.7	110.2	107.6	100.6	91.0	97.1
80°	1763.4	1598.0	427.7	255.4	132.1	88.3	84.8	84.0	76.1	65.6	66.5
82.5°	1200.1	1177.3	222.2	145.2	76.1	51.6	49.9	51.6	42.9	35.0	35.0
85°	468.8	640.3	105.0	56.9	24.5	7.9	11.4	12.2	7.0	3.5	4.4
87.5°	8.7	65.6	2.6	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°	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5
2.5°	3553.0	3545.1	3558.2	3502.2	3513.6	3534.6	3545.1	3551.2	3637.8	3617.7	3672.8
5°	2771.9	2764.0	2814.7	2821.7	2848.0	2842.7	2868.1	2874.2	2905.7	2917.1	2994.0
7.5°	2016.1	2050.3	2108.0	2137.7	2182.3	2196.3	2183.2	2215.6	2150.0	2197.2	2211.2
10°	1619.9	1578.8	1554.3	1622.5	1631.3	1696.0	1669.8	1648.8	1687.3	1689.0	1725.8
12.5°	1348.8	1260.4	1201.8	1221.1	1242.1	1270.0	1274.4	1316.4	1344.4	1370.6	1392.5
15°	1057.5	1026.9	973.5	947.3	977.0	988.4	1015.5	1050.5	1080.2	1088.1	1117.8
17.5°	811.7	817.0	808.2	792.5	810.8	819.6	821.3	822.2	830.1	824.8	868.6
20°	653.4	671.8	693.6	697.1	703.2	707.6	699.7	670.0	670.9	689.3	703.2
22.5°	591.3	594.8	619.3	627.1	646.4	638.5	615.8	601.8	600.0	604.4	611.4
25°	542.3	547.6	565.0	577.3	592.2	578.2	561.5	548.4	546.7	551.1	558.0
27.5°	498.6	506.4	522.2	534.4	548.4	535.3	519.6	508.2	507.3	506.4	510.8
30°	463.6	472.3	483.7	497.7	507.3	495.9	481.1	475.0	474.1	472.3	474.1
32.5°	428.6	442.6	454.0	461.0	470.6	461.8	450.5	447.0	440.8	435.6	433.0
35°	389.2	404.1	421.6	430.3	440.0	431.2	423.3	408.5	398.0	397.1	398.9
37.5°	366.5	372.6	386.6	401.5	411.1	406.7	391.9	377.0	374.4	374.4	376.1
40°	346.4	349.0	355.1	374.4	391.9	378.7	360.4	356.0	356.0	355.1	356.0
42.5°	326.3	328.9	328.9	343.8	371.7	350.7	336.8	336.8	336.8	337.6	340.3
45°	307.9	308.8	307.9	318.4	344.6	327.1	317.5	320.1	321.9	323.6	325.4
47.5°	292.1	293.0	292.1	300.9	314.0	307.0	301.8	305.3	308.8	311.4	313.1
50°	278.1	277.3	279.0	284.3	290.4	292.1	288.6	293.9	295.6	299.1	303.5
52.5°	265.9	265.0	266.8	269.4	278.1	278.1	278.1	282.5	286.0	289.5	295.6
55°	251.9	252.8	255.4	258.9	270.3	268.5	269.4	272.9	276.4	281.6	285.1
57.5°	238.8	240.5	244.0	249.3	260.7	259.8	260.7	262.4	266.8	269.4	272.9
60°	223.9	227.4	231.8	235.3	246.7	245.8	250.2	253.7	256.3	256.3	258.0
62.5°	209.0	214.3	218.7	221.3	233.5	234.4	240.5	243.2	244.9	243.2	245.8
65°	194.2	202.1	203.8	207.3	219.5	220.4	227.4	233.5	231.8	230.0	234.4
67.5°	179.3	188.9	188.1	192.4	204.7	206.4	212.5	223.0	219.5	217.8	221.3
70°	162.7	169.7	170.6	173.2	189.8	187.2	196.8	206.4	203.8	204.7	204.7
72.5°	144.3	150.4	150.4	155.7	173.2	168.8	176.7	187.2	187.2	186.3	186.3
75°	122.5	126.0	129.5	137.3	155.7	150.4	155.7	165.3	167.1	165.3	165.3
77.5°	98.8	104.1	105.8	116.3	129.5	128.6	133.8	138.2	141.7	139.9	139.9
80°	70.0	75.2	82.2	93.6	101.5	104.1	106.7	110.2	112.0	112.0	113.7
82.5°	39.4	47.2	53.4	64.7	68.2	81.3	80.5	83.1	80.5	70.8	78.7
85°	8.7	16.6	23.6	29.7	34.1	47.2	49.9	56.0	46.4	42.9	42.9
87.5°	0.0	0.0	0.0	0.0	0.0	7.0	14.0	19.2	16.6	14.0	14.0
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°	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5	4261.5
2.5°	3719.2	3795.3	3887.1	4045.4	4156.5	4276.3	4397.0	4525.6	4559.7	4594.7
5°	3015.0	3164.6	3246.0	3458.5	3681.5	3964.9	4196.7	4450.4	4556.2	4580.7
7.5°	2283.8	2385.3	2598.7	2813.9	3090.3	3387.6	3742.8	4138.1	4261.5	4313.1
10°	1810.6	1948.8	2136.0	2366.9	2609.2	2929.3	3329.9	3791.8	3966.7	3995.6
12.5°	1541.2	1695.1	1898.9	2143.0	2372.1	2613.6	3017.7	3494.4	3681.5	3743.6
15°	1232.4	1418.7	1654.0	1911.2	2160.5	2424.6	2834.0	3371.9	3588.0	3660.6
17.5°	968.3	1118.7	1373.3	1652.3	1947.9	2282.0	2795.5	3430.5	3696.4	3763.8
20°	740.9	848.4	1062.7	1357.5	1703.9	2141.2	2805.1	3651.8	3970.2	4062.0
22.5°	640.3	695.4	825.7	1106.5	1494.0	2018.8	2844.5	3955.3	4339.3	4492.4
25°	579.9	608.8	682.3	865.9	1293.7	1899.8	2934.6	4363.8	4855.4	4956.8
27.5°	528.3	549.3	594.8	726.9	1111.7	1789.6	3039.5	4816.9	5337.3	5488.6
30°	479.3	507.3	550.2	645.5	995.4	1689.0	3171.6	5184.3	5743.2	5884.0
32.5°	441.7	469.7	509.1	588.7	896.6	1583.2	3250.3	5507.0	6074.7	6194.5
35°	411.1	434.7	475.8	543.2	821.3	1502.7	3234.6	5763.3	6395.7	6518.1
37.5°	389.2	409.4	450.5	500.3	764.5	1418.7	3226.7	6101.8	6786.7	6928.4
40°	369.1	390.1	427.7	472.3	707.6	1319.9	3231.1	6437.7	7203.0	7344.7
42.5°	353.4	377.0	407.6	464.5	649.0	1240.3	3231.1	6729.8	7565.1	7701.6
45°	340.3	365.6	395.4	463.6	602.7	1179.9	3209.2	6980.9	7853.8	7970.1
47.5°	328.9	356.9	399.7	447.8	591.3	1136.2	3190.0	7182.0	8089.1	8198.4
50°	321.0	354.2	425.1	429.5	594.8	1123.1	3282.7	7435.7	8296.4	8390.8
52.5°	314.9	355.1	424.2	402.4	588.7	1131.8	3476.0	7831.9	8584.1	8591.1
55°	302.6	354.2	402.4	371.7	563.3	1146.7	3724.4	8407.5	9034.6	9039.9
57.5°	290.4	344.6	373.5	345.5	511.7	1146.7	4023.5	8952.4	9577.8	9582.2
60°	278.1	358.6	328.0	322.8	444.3	1125.7	4339.3	9192.1	9748.3	9793.0
62.5°	265.9	361.2	293.0	302.6	395.4	1075.0	4574.6	8927.0	9517.4	9581.3
65°	251.9	291.3	270.3	281.6	370.0	990.1	4500.2	8441.6	9083.6	9159.7
67.5°	235.3	246.7	245.8	259.8	361.2	865.1	4108.4	7827.5	8616.5	8612.1
70°	215.2	221.3	223.9	238.8	344.6	768.0	3423.5	7030.7	7992.9	8090.8
72.5°	194.2	199.4	202.1	215.2	328.0	712.9	2657.3	5933.0	6923.1	7076.2
75°	171.4	174.9	178.4	189.8	310.5	631.5	1892.8	4529.1	5302.3	5542.9
77.5°	147.8	147.8	152.2	163.6	261.5	521.3	1270.0	3176.9	3592.3	3838.1
80°	119.8	120.7	119.0	131.2	192.4	356.9	721.6	2122.0	2390.5	2437.7
82.5°	91.8	89.2	90.1	96.2	143.4	243.2	384.9	1318.1	1343.5	1317.3
85°	57.7	57.7	56.0	63.0	91.8	126.8	209.9	807.3	630.6	600.0
87.5°	23.6	19.2	21.9	25.4	43.7	51.6	82.2	166.2	63.9	58.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)