

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: P458931

Luminaire Tested: **GALN-SA4C-735-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458931  
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-SA4C-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA 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: 18606 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

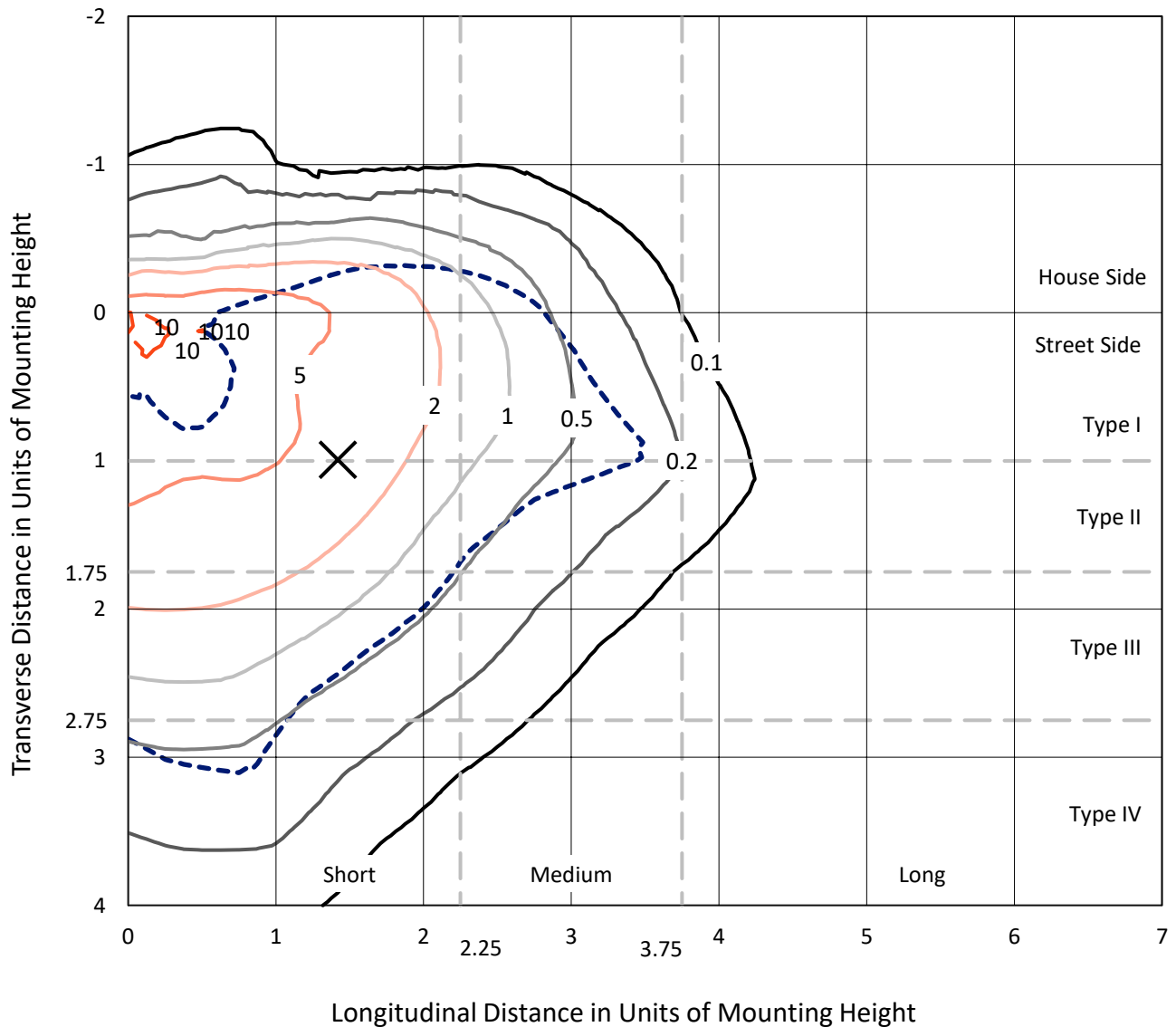
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

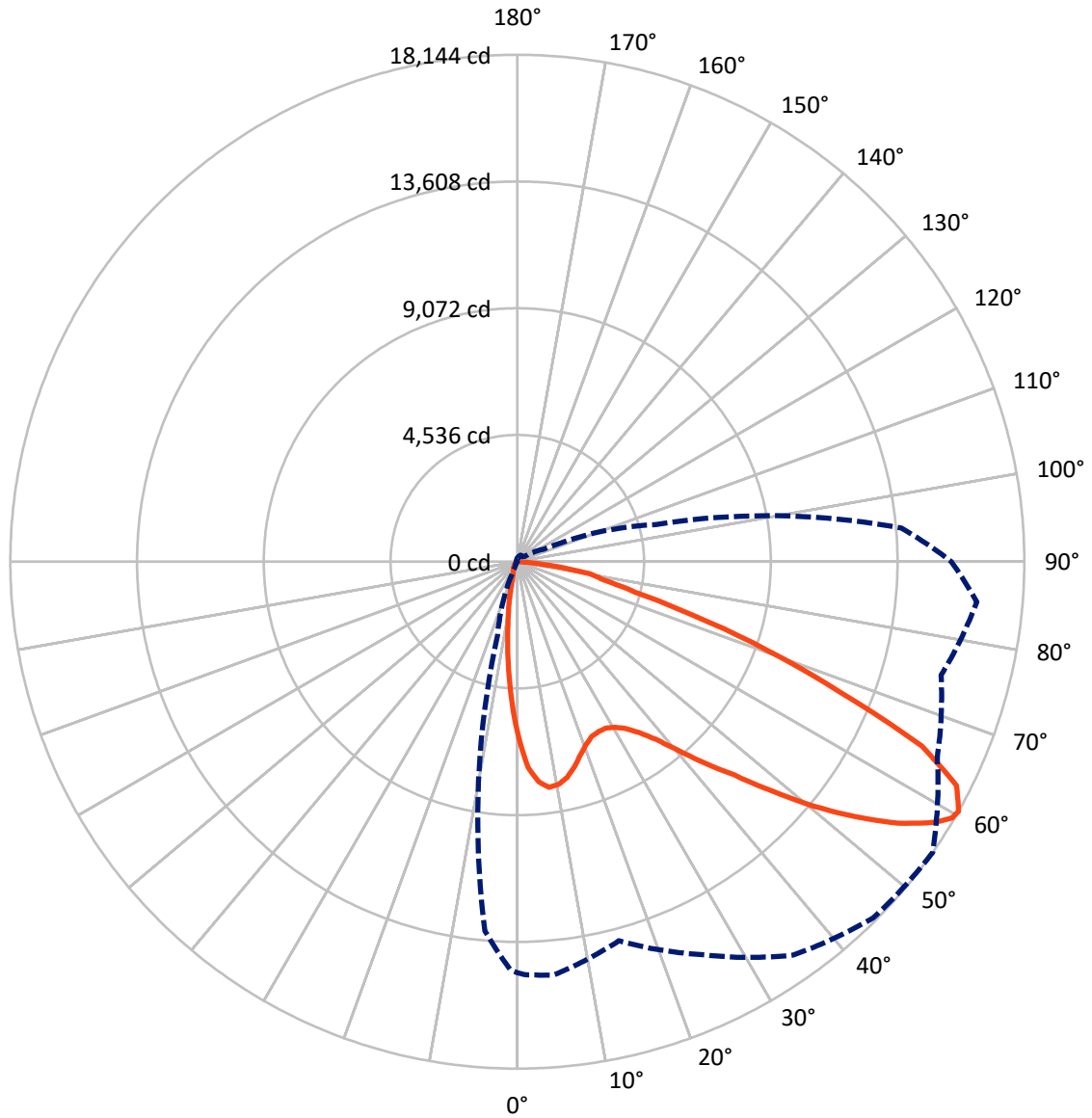
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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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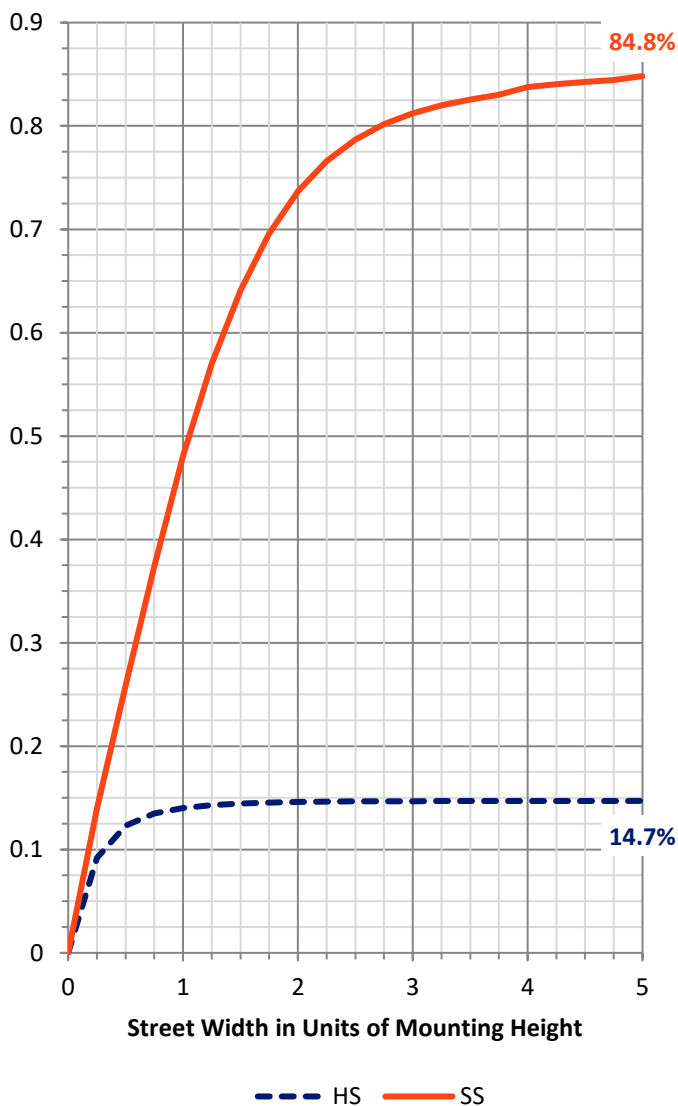
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2761.3	0.0	2761.3
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	15844.7	0.0	15844.7
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	18606.0	0.0	18606.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.5	2.5
10°-20°	918.7	4.9
20°-30°	1359.8	7.3
30°-40°	2027.0	10.9
40°-50°	2968.5	16.0
50°-60°	4285.6	23.0
60°-70°	4508.2	24.2
70°-80°	1854.5	10.0
80°-90°	217.2	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°	18606.0	100.0
0°-180°	18606.0	100.0

**Coefficient of Utilization**



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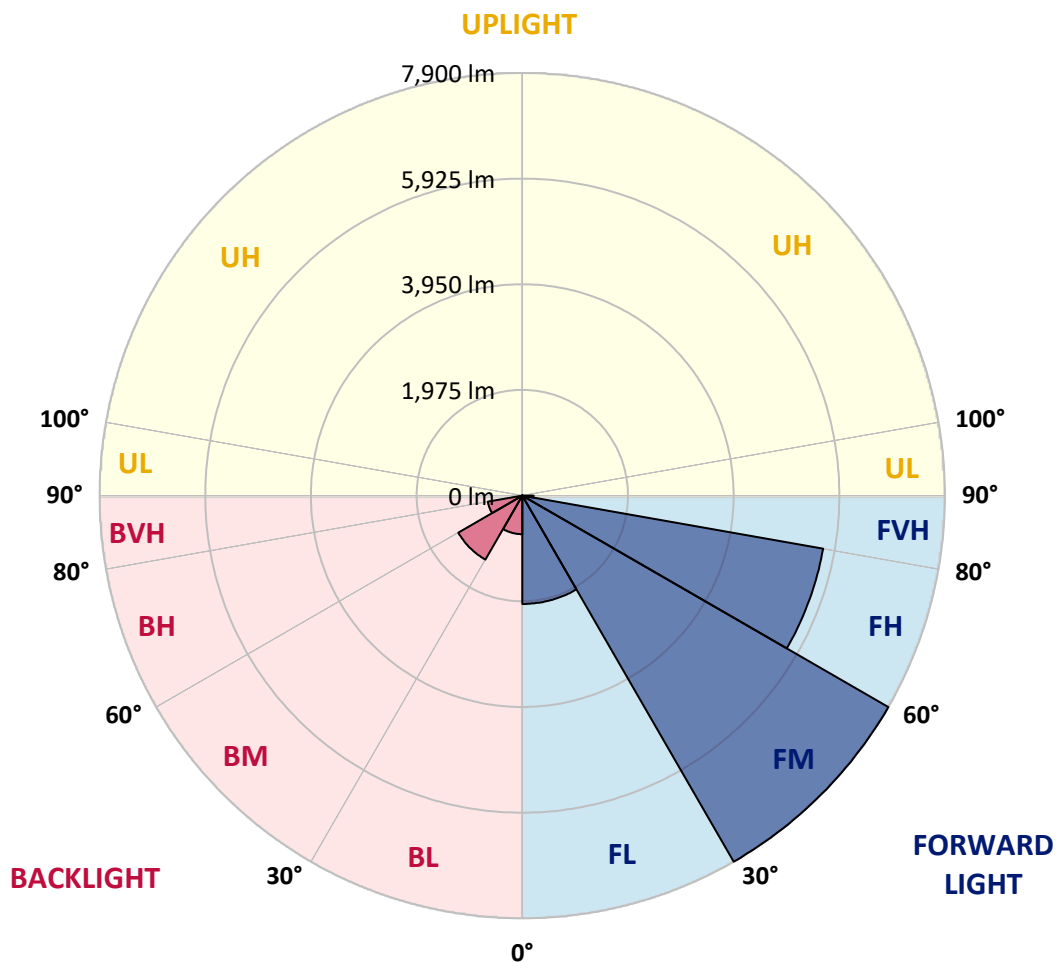
CATALOG NUMBER: GALN-SA4C-735-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2024.6	10.9			
FM	(30°-60°)	7900.1	42.5			
FH	(60°-80°)	5709.2	30.7			G3/7500
FVH	(80°-90°)	210.8	1.1			G2/225
BL	(0°-30°)	720.4	3.9	B2/1000		
BM	(30°-60°)	1380.9	7.4	B2/2500		
BH	(60°-80°)	653.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.4	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9
2.5°	6882.8	6871.4	6973.0	7139.2	7306.7	7394.1	7376.9	7369.7	7230.8	7129.1	6915.8
5°	6868.5	6927.2	7109.1	7558.8	7899.6	8064.3	8113.0	7908.2	7637.5	7245.1	6761.1
7.5°	6457.5	6530.5	6827.0	7530.1	8135.9	8494.0	8481.1	8153.1	7594.6	6987.4	6297.1
10°	5947.6	6033.6	6381.6	7235.1	8021.4	8494.0	8519.7	8104.4	7409.8	6630.8	5904.7
12.5°	5588.2	5689.9	6075.1	6960.2	7726.3	8191.8	8221.9	7921.1	7270.9	6493.3	5691.3
15°	5466.4	5562.4	5953.4	6821.2	7412.7	7663.3	7656.2	7624.7	7216.5	6526.2	5702.7
17.5°	5675.5	5754.3	6195.4	6884.2	7119.1	7093.3	7130.6	7282.4	7228.0	6802.6	6063.6
20°	6215.4	6295.6	6769.7	7077.6	6894.3	6731.0	6748.2	7001.7	7333.9	7322.5	6627.9
22.5°	6958.7	7094.8	7524.4	7452.8	6864.2	6506.2	6470.4	6799.8	7514.4	7921.1	7389.8
25°	7899.6	8037.1	8372.2	8051.4	7011.7	6453.2	6420.2	6738.2	7733.5	8505.4	8247.6
27.5°	8690.2	8794.7	9128.4	8634.3	7229.4	6476.1	6421.7	6746.8	7911.1	9002.4	8970.9
30°	9323.2	9400.5	9596.7	8906.4	7417.0	6576.3	6513.3	6872.8	7989.9	9244.4	9556.6
32.5°	9833.0	9963.3	10024.9	9197.1	7686.2	6765.4	6658.0	7114.8	8181.8	9543.7	10171.0
35°	10415.9	10566.3	10487.5	9475.0	8041.4	7060.4	6928.6	7507.2	8472.5	9820.1	10884.2
37.5°	11154.9	11328.1	11020.2	9767.1	8416.6	7504.4	7442.8	8058.6	8913.6	10215.4	11648.9
40°	11919.6	12019.9	11537.2	10122.3	8877.8	8150.3	8209.0	8877.8	9490.7	10689.4	12462.4
42.5°	12516.8	12611.3	12068.6	10420.2	9348.9	8916.4	9161.3	9865.9	10152.4	11174.9	13069.6
45°	12973.7	13053.9	12436.6	10745.3	9984.8	10026.3	10488.9	10884.2	10815.4	11471.4	13537.9
47.5°	13328.8	13397.6	12720.2	11094.7	10937.2	11384.0	12091.5	12259.0	11502.9	11792.2	13961.8
50°	13474.9	13495.0	12809.0	11540.1	12018.4	13114.0	13851.6	13749.9	12290.5	12148.8	14413.0
52.5°	13665.4	13661.1	13062.5	11964.0	13035.2	14660.7	15396.8	15166.3	13181.3	12682.9	14919.9
55°	14165.2	14170.9	13605.2	12565.5	13901.7	15909.5	16697.2	16529.6	14120.8	13585.2	15511.4
57.5°	14772.4	14793.9	14377.2	13268.7	14729.5	16814.6	17668.2	17603.7	15391.1	14589.1	16069.9
59°	14851.2	14894.2	14742.3	13764.2	15220.7	17092.5	18000.4	18063.5	16071.4	15250.8	16372.1
60°	14708.0	14779.6	14848.3	14044.9	15508.5	17192.7	18020.5	18143.7	16582.6	15700.4	16509.6
62.5°	14083.6	14196.7	14541.8	14908.5	15868.0	16880.5	17380.3	17638.1	17215.6	16881.9	16522.5
65°	13265.8	13324.5	13822.9	15061.7	15170.6	15422.6	15577.3	15908.1	16455.2	17337.4	15931.0
67.5°	11925.3	12098.6	12708.7	14172.4	13112.6	12814.7	12776.0	12446.6	13867.3	16251.8	14473.1
70°	9851.6	9929.0	10680.8	11618.9	9896.0	9437.7	9621.0	9497.9	10749.6	13990.5	11648.9
72.5°	7449.9	7624.7	8359.3	9261.6	6733.9	6139.5	6645.1	6599.3	8074.3	11243.7	8002.7
75°	5300.3	5413.5	6350.1	7248.0	4716.0	3995.6	4177.5	4347.9	5636.9	8877.8	4728.9
77.5°	3641.9	3739.3	4442.5	4793.3	3440.0	3295.3	3014.6	3179.3	3693.5	5267.4	2573.5
80°	2196.9	2192.6	2655.2	2741.1	2396.0	2782.6	2334.4	2620.8	2232.7	2254.2	996.8
82.5°	1426.4	1412.1	1624.0	1770.1	1333.3	1402.1	940.9	1356.2	1455.0	628.7	315.1
85°	638.7	665.9	780.5	1029.7	584.3	310.8	191.9	416.7	620.1	316.5	0.0
87.5°	65.9	51.6	137.5	250.6	80.2	8.6	28.6	14.3	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°	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9
2.5°	6816.9	6733.9	6486.1	6254.1	6055.0	5811.6	5654.0	5406.3	5255.9	5210.1	5217.2
5°	6543.4	6304.2	5833.1	5456.4	5036.8	4797.6	4433.9	4084.4	3895.4	3825.2	3793.7
7.5°	5970.6	5714.2	5145.6	4554.2	4104.5	3684.9	3414.2	3106.3	2895.8	2722.5	2692.4
10°	5545.2	5208.7	4504.0	3868.2	3513.0	3197.9	2927.3	2619.4	2371.6	2174.0	2119.6
12.5°	5290.3	4913.6	4127.4	3594.6	3258.1	2934.4	2582.1	2225.5	1972.0	1758.7	1659.8
15°	5244.5	4807.7	4021.4	3398.4	2983.1	2592.2	2123.8	1738.6	1478.0	1276.0	1214.4
17.5°	5520.9	4998.1	4005.7	3193.7	2623.7	2069.4	1582.5	1263.1	969.6	856.4	812.0
20°	6013.5	5334.7	4004.2	2955.9	2254.2	1594.0	1111.3	823.5	704.6	650.2	624.4
22.5°	6685.2	5793.0	4080.1	2751.1	1870.4	1175.8	793.4	655.9	587.2	542.8	532.8
25°	7505.8	6471.8	4266.3	2612.2	1576.8	922.3	654.5	561.4	504.1	484.1	475.5
27.5°	8234.7	7122.0	4471.1	2469.0	1366.3	816.3	607.2	514.1	468.3	452.6	439.7
30°	8863.5	7712.0	4569.9	2280.0	1197.3	747.6	615.8	549.9	489.8	442.5	421.0
32.5°	9387.6	8164.6	4634.4	2108.1	1054.0	611.5	486.9	425.3	398.1	380.9	366.6
35°	10043.5	8654.4	4595.7	2010.7	981.0	557.1	444.0	366.6	320.8	286.4	272.1
37.5°	10731.0	9144.2	4528.4	1930.5	948.1	517.0	422.5	348.0	297.9	262.1	243.5
40°	11442.7	9598.1	4449.6	1856.0	918.0	491.2	409.6	332.3	282.1	243.5	223.4
42.5°	12094.3	10040.7	4418.1	1807.3	869.3	495.5	399.6	325.1	266.4	226.3	209.1
45°	12621.4	10460.3	4461.1	1781.6	816.3	488.4	402.4	316.5	253.5	214.8	197.6
47.5°	13184.2	11053.2	4600.0	1755.8	764.8	454.0	423.9	315.1	247.8	207.7	189.0
50°	13838.7	11812.2	4917.9	1692.8	701.7	416.7	451.1	313.6	240.6	199.1	180.4
52.5°	14710.8	12674.4	5245.9	1582.5	610.1	380.9	431.1	309.3	226.3	189.0	170.4
55°	15494.2	13582.3	5523.7	1452.2	494.1	329.4	388.1	290.7	201.9	171.9	154.7
57.5°	15817.9	14095.0	5515.1	1271.7	395.3	289.3	319.4	266.4	176.2	151.8	137.5
59°	15699.0	14030.6	5330.4	1138.5	360.9	267.8	264.9	263.5	164.7	137.5	126.0
60°	15531.5	13795.7	5131.3	1072.7	339.4	253.5	243.5	260.6	154.7	128.9	117.4
62.5°	14889.9	12821.9	4471.1	961.0	310.8	214.8	194.8	220.5	137.5	111.7	101.7
65°	13960.4	11325.3	3785.1	929.5	302.2	177.6	161.8	157.5	117.4	94.5	85.9
67.5°	12147.3	9583.8	3066.2	908.0	305.0	148.9	141.8	118.9	97.4	78.8	73.0
70°	9725.6	7472.9	2510.5	883.6	307.9	121.7	118.9	94.5	78.8	65.9	60.1
72.5°	5909.0	4429.6	1976.3	767.6	299.3	97.4	106.0	71.6	57.3	47.3	44.4
75°	3653.4	3031.8	1225.9	597.2	197.6	71.6	74.5	44.4	38.7	30.1	30.1
77.5°	2116.7	1914.8	438.2	214.8	87.4	43.0	32.9	22.9	21.5	12.9	12.9
80°	877.9	703.2	151.8	73.0	47.3	20.0	7.2	1.4	0.0	0.0	0.0
82.5°	256.4	227.7	41.5	32.9	14.3	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°	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9
2.5°	5095.5	5048.3	5026.8	5099.8	5032.5	5118.4	5052.6	5081.2	5165.7	5202.9	5298.9
5°	3813.8	3765.1	3742.2	3852.4	3846.7	3901.1	3895.4	3945.5	3988.5	3892.5	3991.3
7.5°	2656.6	2623.7	2678.1	2764.0	2855.7	2825.6	2825.6	2758.3	2781.2	2766.9	2762.6
10°	2020.7	1907.6	1879.0	1876.1	1910.5	1917.6	1879.0	1785.9	1820.2	1830.3	1890.4
12.5°	1589.7	1502.3	1369.1	1309.0	1293.2	1306.1	1178.6	1097.0	1135.7	1112.8	1171.5
15°	1140.0	1068.4	989.6	922.3	903.7	877.9	739.0	641.6	630.1	634.4	644.5
17.5°	813.4	764.8	764.8	693.2	654.5	577.1	507.0	464.0	459.7	464.0	471.2
20°	600.1	574.3	571.4	552.8	509.8	458.3	409.6	401.0	398.1	405.3	408.2
22.5°	517.0	489.8	466.9	465.4	425.3	382.4	359.5	348.0	349.4	352.3	359.5
25°	462.6	433.9	409.6	395.3	366.6	336.6	315.1	309.3	309.3	313.6	315.1
27.5°	423.9	388.1	366.6	346.6	320.8	295.0	276.4	272.1	269.2	272.1	279.3
30°	396.7	360.9	333.7	303.6	283.6	259.2	243.5	237.7	236.3	237.7	243.5
32.5°	339.4	317.9	296.5	269.2	244.9	229.1	212.0	201.9	201.9	204.8	210.5
35°	256.4	244.9	243.5	236.3	216.3	199.1	179.0	169.0	169.0	174.7	177.6
37.5°	226.3	204.8	201.9	199.1	190.5	167.6	148.9	140.3	138.9	143.2	148.9
40°	206.2	181.9	169.0	166.1	167.6	141.8	121.7	113.1	113.1	114.6	120.3
42.5°	190.5	161.8	138.9	136.1	141.8	118.9	98.8	90.2	90.2	90.2	97.4
45°	177.6	144.6	117.4	103.1	111.7	97.4	80.2	71.6	68.7	71.6	74.5
47.5°	169.0	131.8	103.1	83.1	83.1	77.3	64.4	54.4	51.6	53.0	57.3
50°	161.8	120.3	87.4	67.3	60.1	61.6	48.7	41.5	38.7	38.7	43.0
52.5°	150.4	108.8	75.9	57.3	45.8	41.5	35.8	30.1	28.6	30.1	32.9
55°	136.1	98.8	65.9	47.3	35.8	28.6	25.8	21.5	20.0	21.5	25.8
57.5°	120.3	83.1	53.0	37.2	24.3	18.6	17.2	14.3	11.5	12.9	15.8
59°	110.3	74.5	45.8	30.1	18.6	12.9	12.9	10.0	7.2	8.6	12.9
60°	106.0	68.7	38.7	25.8	15.8	10.0	10.0	7.2	4.3	5.7	10.0
62.5°	90.2	57.3	30.1	15.8	7.2	1.4	4.3	1.4	0.0	1.4	4.3
65°	75.9	45.8	20.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	63.0	34.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	50.1	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	34.4	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.6	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°	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9	6299.9
2.5°	5304.6	5509.4	5635.4	5873.2	6116.6	6304.2	6539.1	6749.6	6837.0	6882.8
5°	4091.6	4376.6	4618.6	4980.9	5317.5	5727.1	6142.4	6632.2	6819.8	6868.5
7.5°	2871.4	3162.1	3415.6	3835.2	4315.0	4863.5	5485.1	6106.6	6380.1	6457.5
10°	2073.7	2384.5	2693.8	3113.5	3561.7	4156.0	4803.4	5572.4	5887.5	5947.6
12.5°	1309.0	1642.7	2145.3	2663.8	3137.8	3616.1	4293.5	5129.9	5477.9	5588.2
15°	759.0	1008.2	1387.7	2063.7	2666.6	3299.6	4038.6	4963.8	5353.3	5466.4
17.5°	508.4	594.3	855.0	1372.0	2168.2	3007.5	3974.2	5099.8	5530.9	5675.5
20°	428.2	466.9	558.5	836.4	1669.9	2746.8	3991.3	5469.3	6035.0	6215.4
22.5°	376.7	412.5	471.2	601.5	1165.8	2423.2	4073.0	5997.8	6728.1	6958.7
25°	332.3	368.1	419.6	498.4	783.4	2049.4	4252.0	6771.1	7646.1	7899.6
27.5°	295.0	328.0	372.4	439.7	602.9	1632.6	4411.0	7524.4	8483.9	8690.2
30°	260.6	287.9	330.8	382.4	501.2	1258.8	4491.2	8183.2	9094.0	9323.2
32.5°	226.3	252.1	293.6	335.1	412.5	959.5	4435.3	8667.3	9686.9	9833.0
35°	193.3	220.5	254.9	293.6	356.6	774.8	4156.0	9211.5	10301.3	10415.9
37.5°	166.1	189.0	224.8	254.9	322.2	620.1	3818.1	9701.2	10990.2	11154.9
40°	140.3	163.3	199.1	226.3	296.5	488.4	3513.0	10245.5	11716.3	11919.6
42.5°	114.6	141.8	173.3	217.7	254.9	372.4	3143.5	10686.6	12261.9	12516.8
45°	91.7	121.7	156.1	216.3	222.0	283.6	2786.9	11030.3	12744.5	12973.7
47.5°	73.0	103.1	150.4	201.9	181.9	224.8	2583.6	11389.7	13145.5	13328.8
50°	58.7	85.9	157.5	177.6	151.8	190.5	2577.8	11790.7	13353.2	13474.9
52.5°	47.3	70.2	133.2	136.1	128.9	167.6	2732.5	12241.8	13565.1	13665.4
55°	40.1	58.7	87.4	100.2	116.0	151.8	2848.5	12936.4	14070.7	14165.2
57.5°	31.5	50.1	67.3	80.2	103.1	138.9	2864.3	13472.0	14710.8	14772.4
59°	27.2	43.0	60.1	71.6	94.5	130.3	2799.8	13505.0	14752.4	14851.2
60°	22.9	38.7	53.0	67.3	87.4	123.2	2729.6	13265.8	14597.7	14708.0
62.5°	17.2	30.1	38.7	54.4	71.6	106.0	2397.4	12430.9	14006.2	14083.6
65°	11.5	21.5	28.6	40.1	55.9	91.7	1953.4	11348.2	13092.5	13265.8
67.5°	7.2	15.8	22.9	30.1	45.8	77.3	1392.0	9731.3	11813.6	11925.3
70°	4.3	10.0	17.2	24.3	35.8	61.6	826.3	7692.0	9828.7	9851.6
72.5°	2.9	7.2	11.5	17.2	28.6	55.9	401.0	5013.9	7176.4	7449.9
75°	1.4	4.3	7.2	12.9	22.9	45.8	191.9	3349.8	5221.5	5300.3
77.5°	0.0	1.4	4.3	8.6	17.2	35.8	111.7	2199.8	3560.3	3641.9
80°	0.0	0.0	2.9	7.2	12.9	22.9	67.3	1297.5	2156.8	2196.9
82.5°	0.0	0.0	1.4	5.7	8.6	17.2	34.4	570.0	1412.1	1426.4
85°	0.0	0.0	1.4	5.7	7.2	11.5	12.9	77.3	627.3	638.7
87.5°	0.0	0.0	1.4	7.2	7.2	7.2	7.2	4.3	53.0	65.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)