

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: P456259

Luminaire Tested: **GALN-SA7C-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36890 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

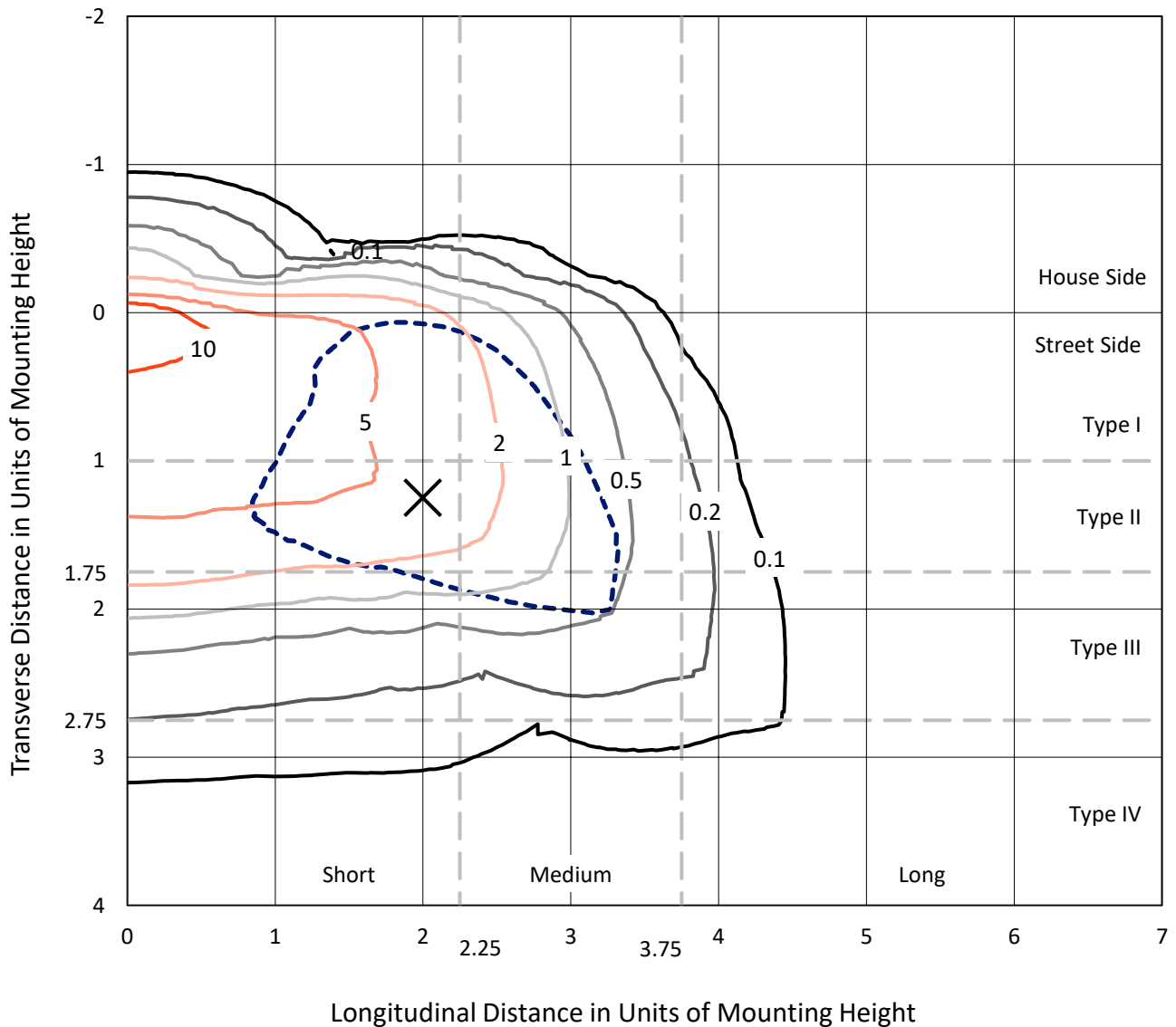
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

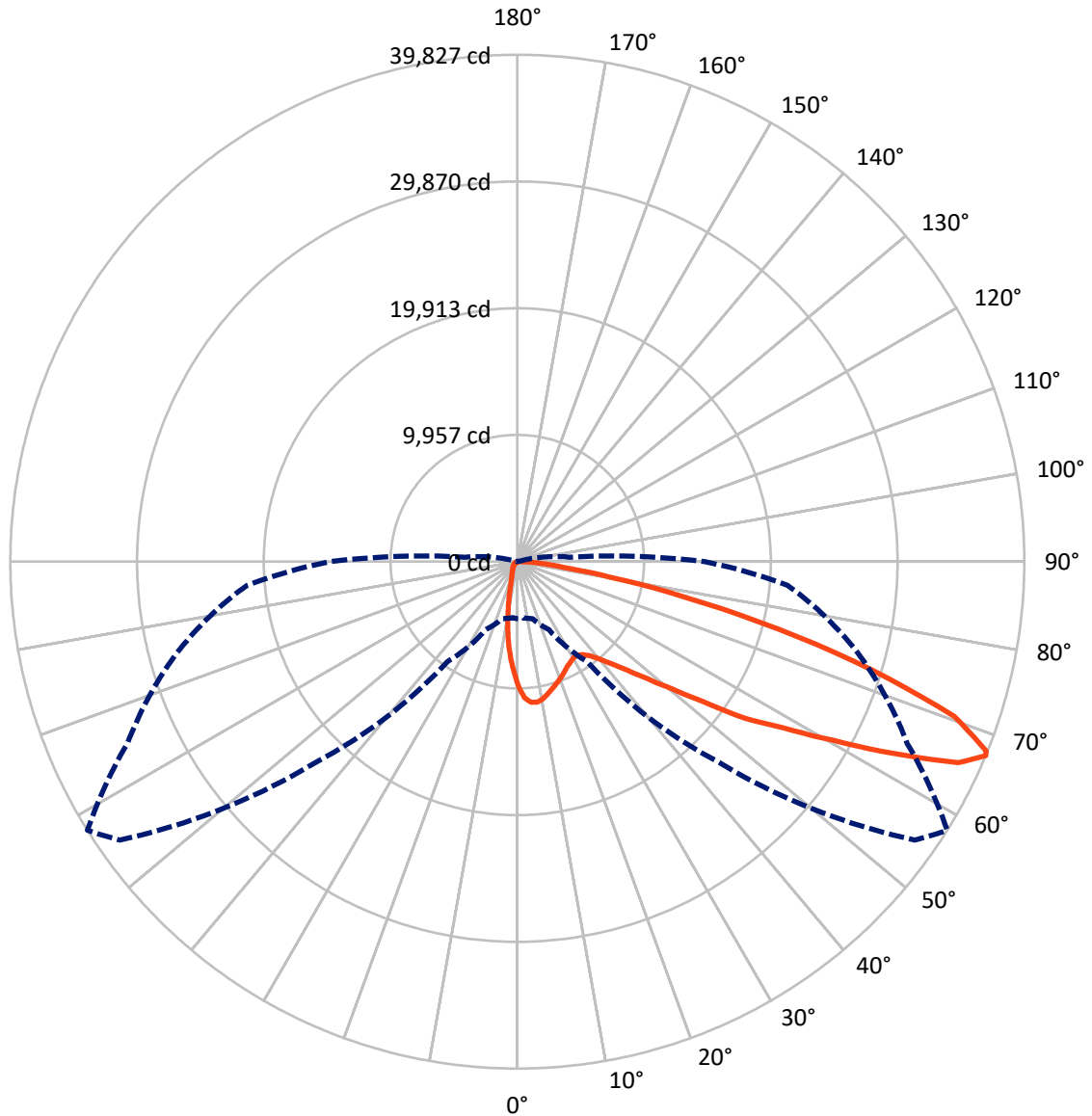
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical



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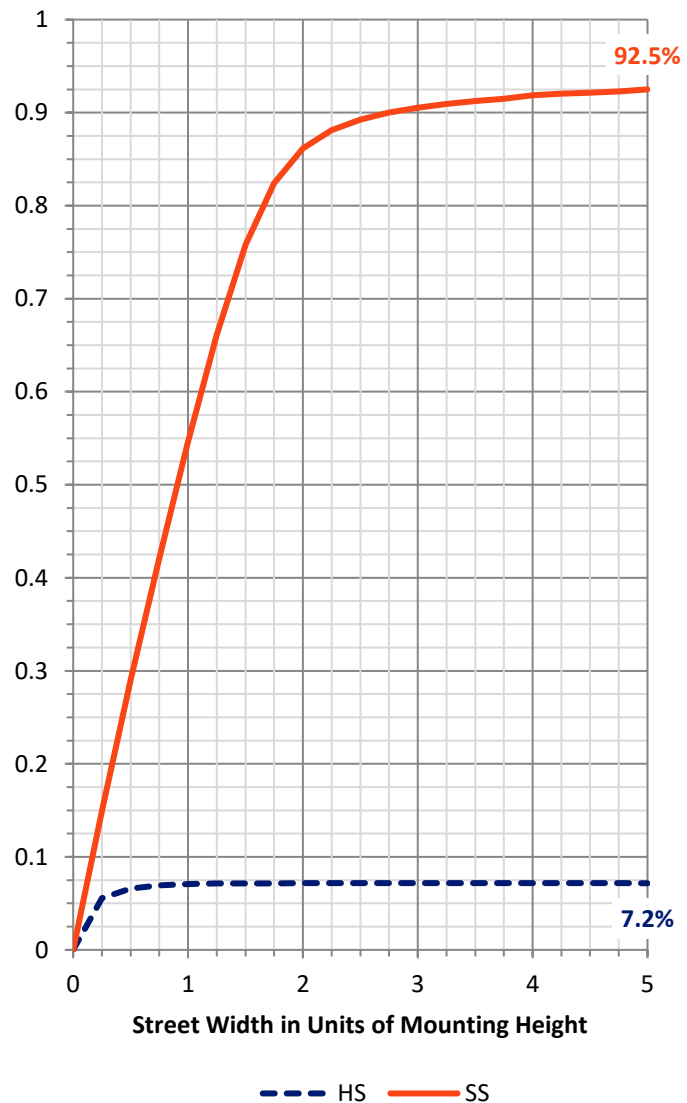
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2662.2	0.0	2662.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	34227.8	0.0	34227.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	36890.0	0.0	36890.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.6	2.2
10°-20°	1713.9	4.6
20°-30°	2322.5	6.3
30°-40°	3221.1	8.7
40°-50°	5137.3	13.9
50°-60°	8880.2	24.1
60°-70°	10144.0	27.5
70°-80°	4229.1	11.5
80°-90°	448.4	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°	36890.0	100.0
0°-180°	36890.0	100.0



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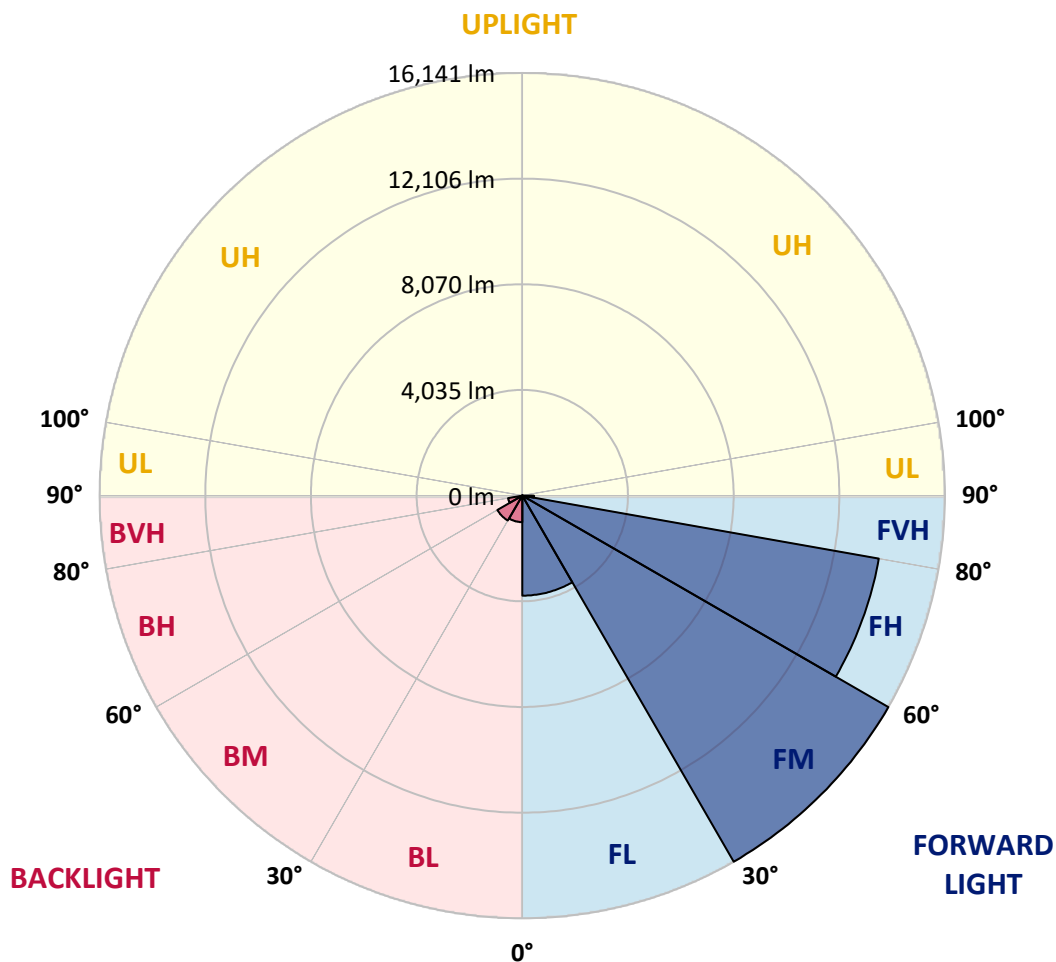
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3819.0	10.4			
FM	(30°-60°)	16140.9	43.8			
FH	(60°-80°)	13822.7	37.5			G5
FVH	(80°-90°)	445.2	1.2			G3/500
BL	(0°-30°)	1010.9	2.7	B3/2500		
BM	(30°-60°)	1097.7	3.0	B2/2500		
BH	(60°-80°)	550.4	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2
2.5°	11349.5	11366.7	11302.7	11250.9	11117.8	10974.8	10785.0	10683.9	10511.3	10213.1	9882.7
5°	11615.7	11637.9	11628.1	11615.7	11564.0	11425.9	11184.3	11095.6	10841.7	10356.0	9759.5
7.5°	11024.1	11105.4	11115.3	11211.4	11302.7	11315.0	11223.8	11157.2	10923.0	10353.6	9540.1
10°	10240.2	10294.4	10373.3	10484.2	10703.6	10886.0	10974.8	10964.9	10829.3	10277.2	9283.7
12.5°	9448.9	9478.5	9599.2	9789.1	10057.8	10368.4	10605.0	10651.9	10654.3	10185.9	9069.2
15°	8768.5	8756.2	8849.8	9069.2	9446.4	9835.9	10259.9	10333.9	10452.2	10097.2	8869.6
17.5°	8186.7	8250.8	8265.6	8507.2	8854.8	9360.1	9900.0	10030.6	10267.3	10020.8	8704.4
20°	7826.8	7861.3	7893.4	8029.0	8342.0	8874.5	9562.3	9742.2	10094.7	9951.8	8519.5
22.5°	7720.8	7743.0	7715.9	7757.8	7979.6	8453.0	9195.0	9434.1	9929.6	9887.7	8369.1
25°	7802.2	7824.3	7760.3	7710.9	7787.4	8110.3	8840.0	9130.9	9796.5	9875.3	8255.7
27.5°	7999.4	8041.3	7952.5	7863.8	7819.4	7925.4	8561.4	8899.1	9705.2	9934.5	8204.0
30°	8307.5	8332.2	8265.6	8157.1	8056.1	7950.1	8416.0	8738.9	9680.6	10072.6	8199.0
32.5°	8642.8	8694.5	8657.6	8586.1	8455.4	8204.0	8457.9	8743.8	9739.8	10272.2	8260.7
35°	9056.9	9116.1	9150.6	9135.8	8968.2	8655.1	8724.1	8965.7	9897.5	10639.5	8428.3
37.5°	9463.7	9515.4	9710.2	9776.7	9628.8	9333.0	9241.8	9402.0	10245.1	11120.2	8731.5
40°	9929.6	9998.6	10272.2	10526.1	10454.6	10144.0	9976.4	10109.5	10777.6	11845.0	9305.9
42.5°	10375.8	10499.0	10915.6	11364.3	11430.8	11083.3	10972.3	11016.7	11566.4	12887.7	10107.1
45°	11009.3	11125.2	11662.6	12271.5	12584.5	12313.4	12200.0	12192.6	12648.6	14354.5	11406.2
47.5°	11923.9	12027.4	12660.9	13262.4	13819.6	13856.5	13642.1	13716.0	14009.4	16070.2	12998.7
50°	13045.5	13289.6	13706.2	14332.3	15076.8	15678.3	15744.8	15646.2	15897.7	18057.1	14911.6
52.5°	14675.0	14768.6	15150.7	15665.9	16538.6	17559.2	18350.5	18214.9	18136.0	19950.4	16844.3
55°	15890.3	16016.0	16610.1	17317.6	18597.0	19943.0	21658.7	21705.5	20709.6	21769.6	18735.0
57.5°	15523.0	15715.3	16615.0	18037.4	20850.1	23310.3	24587.3	24619.3	23090.9	23537.1	20869.9
60°	13637.1	13728.4	15017.6	16915.8	21042.4	26958.7	28741.0	28482.2	25514.2	25514.2	22755.7
62.5°	9670.7	9813.7	10858.9	13651.9	19003.7	28225.8	33715.7	33180.8	28852.0	27404.9	23879.8
65°	6180.1	6042.1	6734.8	8618.1	14157.3	26354.8	38046.9	38079.0	31992.6	28161.7	23266.0
67°	4476.7	4422.5	4622.1	5891.7	9599.2	22154.2	38138.1	39826.8	33797.0	27683.5	21303.7
67.5°	4094.6	4136.5	4281.9	5314.8	8721.7	20159.9	37724.0	39723.2	34203.8	27395.1	20593.8
70°	3103.6	3032.1	3189.9	3759.3	5228.6	12717.6	32451.1	36432.3	33698.4	24533.0	16454.8
72.5°	2282.7	2275.3	2494.7	3074.0	4025.6	6774.2	24360.5	29211.9	27530.7	18680.8	10361.0
75°	1540.7	1609.7	1959.8	2568.7	3648.4	4392.9	16607.6	21192.8	19112.2	10607.5	4235.1
77.5°	877.6	882.5	1262.2	2063.3	3276.2	3535.0	9840.8	13501.6	10116.9	3527.6	1257.2
80°	379.6	416.6	626.1	1498.8	2716.6	3130.7	5642.7	7420.1	4092.1	746.9	406.7
82.5°	140.5	165.2	276.1	922.0	1982.0	2578.5	3409.3	3542.4	1387.9	263.8	253.9
85°	0.0	4.9	101.1	431.4	1032.9	1151.2	2277.8	2100.3	613.8	125.7	165.2
87.5°	0.0	0.0	0.0	44.4	135.6	428.9	707.5	788.8	147.9	44.4	39.4
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°	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2	9779.2
2.5°	9705.2	9545.0	9143.2	8741.4	8443.1	8194.1	7819.4	7614.8	7506.3	7346.1	7356.0
5°	9461.2	9135.8	8428.3	7696.2	7104.5	6527.7	5837.4	5558.9	5324.7	5191.6	5102.8
7.5°	9098.8	8618.1	7570.4	6594.2	5684.6	4676.4	3919.6	3414.2	3074.0	2948.3	2827.5
10°	8701.9	8063.5	6700.2	5346.9	4084.7	3044.4	2403.5	1940.1	1774.9	1622.1	1636.9
12.5°	8334.6	7558.1	5901.5	4220.3	2862.0	1935.1	1508.7	1318.8	1264.6	1247.4	1247.4
15°	8033.9	7074.9	5043.7	3172.6	1962.2	1390.3	1207.9	1156.1	1136.4	1131.5	1131.5
17.5°	7713.4	6616.4	4269.6	2344.3	1427.3	1163.5	1101.9	1067.4	1060.0	1055.1	1055.1
20°	7427.5	6155.4	3535.0	1745.3	1153.7	1047.7	1008.2	986.1	978.7	973.7	976.2
22.5°	7156.3	5746.2	2844.8	1318.8	1015.6	954.0	914.6	892.4	877.6	865.3	867.7
25°	6914.7	5351.8	2287.6	1079.7	914.6	860.3	820.9	788.8	756.8	742.0	739.5
27.5°	6744.6	5006.7	1782.3	924.4	823.4	764.2	714.9	675.4	633.5	611.4	606.4
30°	6604.1	4656.6	1410.1	816.0	732.1	675.4	613.8	557.1	512.7	490.6	480.7
32.5°	6512.9	4323.9	1111.8	727.2	655.7	586.7	517.7	461.0	411.7	389.5	384.6
35°	6498.1	4045.3	909.6	653.3	586.7	512.7	441.3	379.6	337.7	315.5	310.6
37.5°	6604.1	3830.8	761.7	594.1	530.0	448.7	369.8	313.1	276.1	258.8	256.4
40°	6887.6	3695.2	660.7	544.8	478.2	389.5	315.5	266.2	229.3	212.0	212.0
42.5°	7427.5	3700.2	594.1	498.0	426.5	332.8	268.7	221.9	189.8	175.0	170.1
45°	8270.5	3867.8	537.4	451.1	377.2	288.4	229.3	182.4	150.4	138.0	138.0
47.5°	9399.6	4200.6	488.1	404.3	332.8	246.5	194.7	147.9	120.8	108.5	108.5
50°	10876.2	4735.5	446.2	364.8	295.8	212.0	157.8	120.8	93.7	83.8	81.3
52.5°	12419.4	5396.2	396.9	330.3	253.9	180.0	128.2	93.7	71.5	64.1	61.6
55°	14122.8	6042.1	350.0	295.8	207.1	150.4	101.1	74.0	51.8	44.4	44.4
57.5°	15841.0	6675.6	293.4	246.5	162.7	110.9	78.9	54.2	34.5	27.1	27.1
60°	17295.4	6880.2	249.0	199.7	123.3	78.9	56.7	34.5	19.7	12.3	12.3
62.5°	17495.1	6190.0	209.5	152.8	88.7	54.2	29.6	19.7	7.4	4.9	4.9
65°	16410.4	5028.9	175.0	115.9	59.2	27.1	12.3	7.4	2.5	0.0	0.0
67°	14704.5	4077.3	143.0	86.3	41.9	17.3	7.4	2.5	0.0	0.0	0.0
67.5°	14268.2	3887.5	138.0	81.3	37.0	14.8	4.9	2.5	0.0	0.0	0.0
70°	11196.7	2911.3	98.6	49.3	22.2	9.9	0.0	0.0	0.0	0.0	0.0
72.5°	6959.1	1646.7	71.5	29.6	14.8	4.9	0.0	0.0	0.0	0.0	0.0
75°	2630.3	576.8	49.3	19.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	818.4	219.4	29.6	14.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	276.1	83.8	19.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	170.1	34.5	12.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	106.0	14.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.7	4.9	2.5	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

(END OF REPORT)