

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: P457651

Luminaire Tested: **GALN-SA9A-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457651  
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-SA9A-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA 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: 31232 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

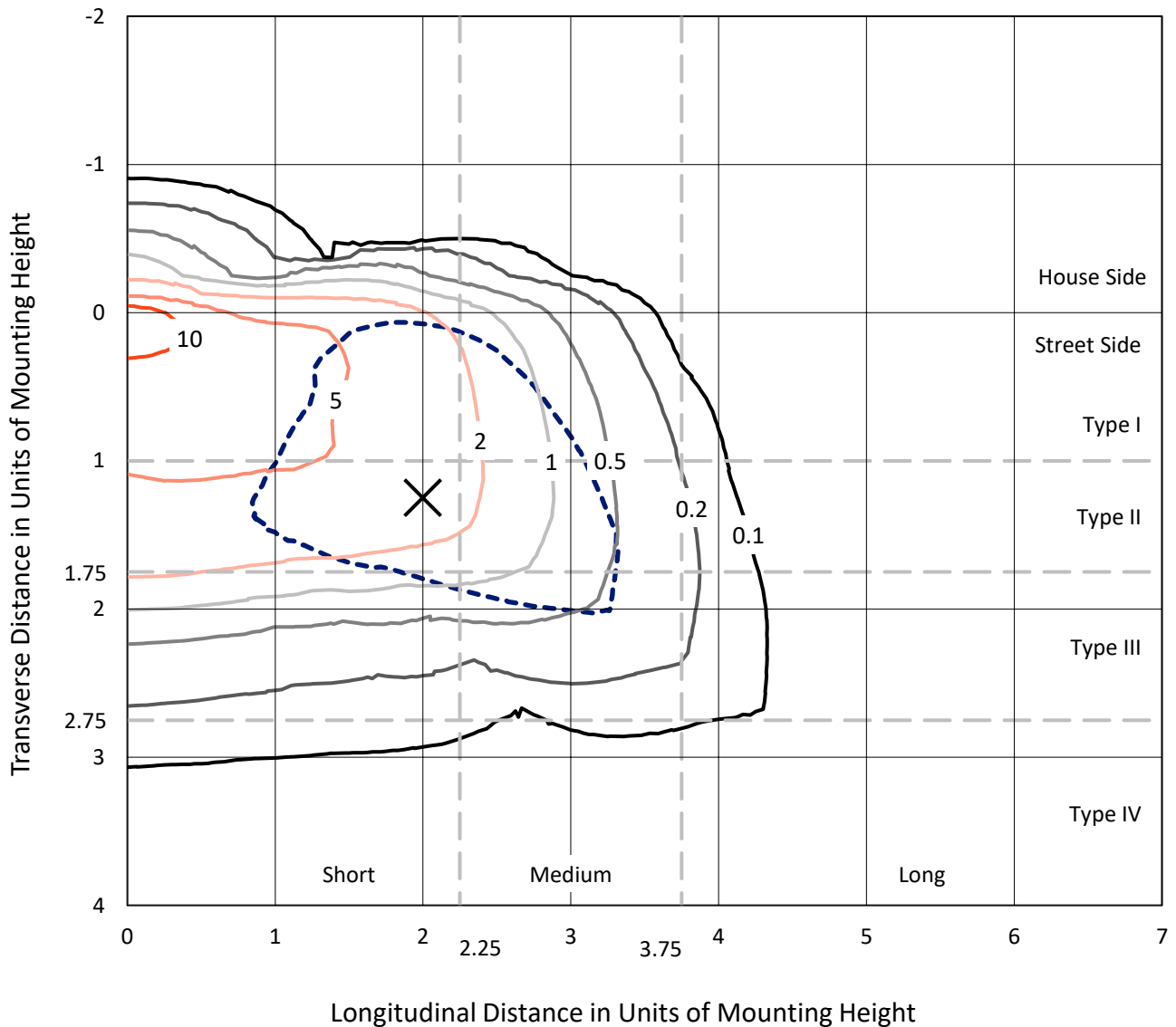
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

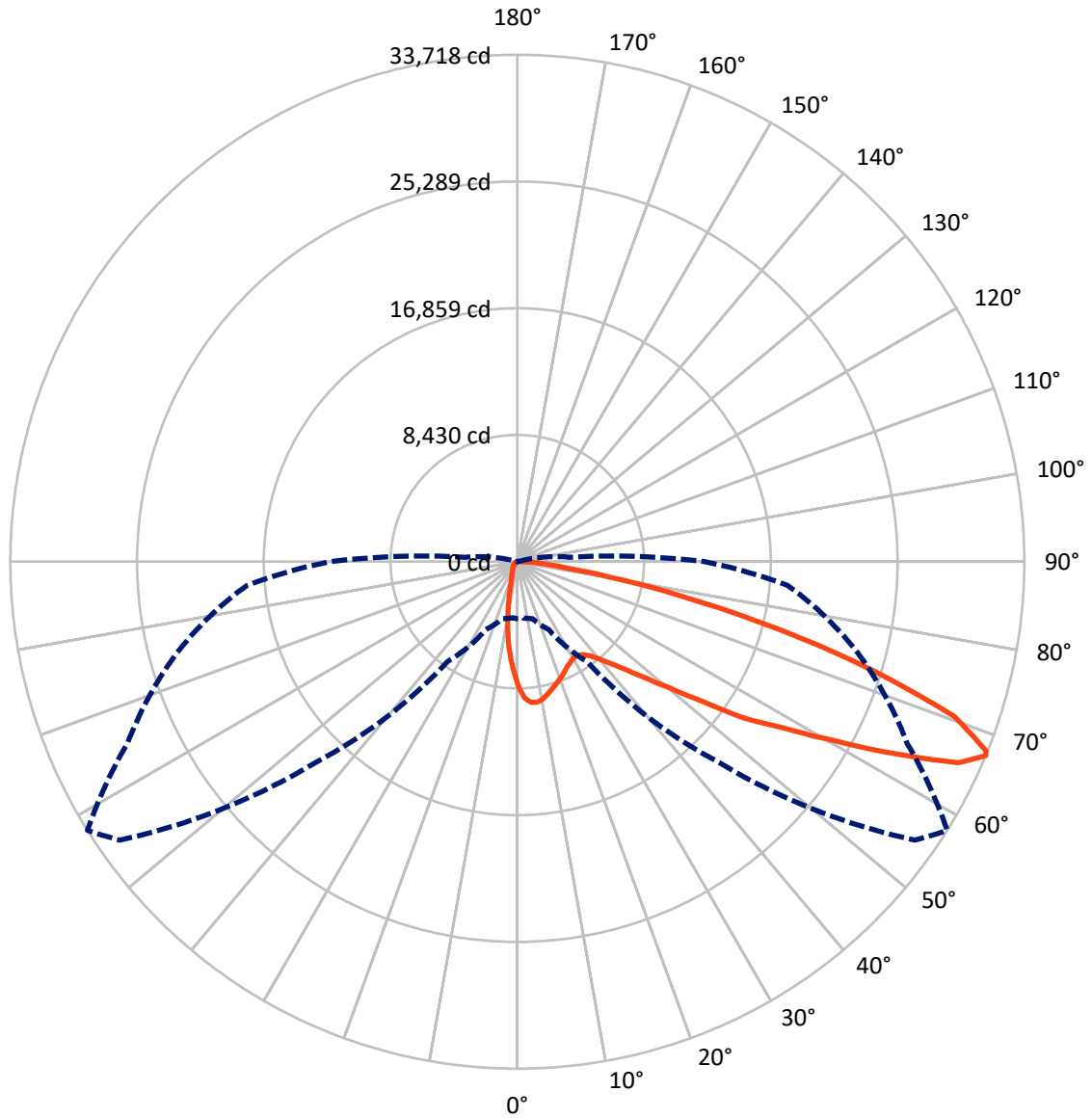
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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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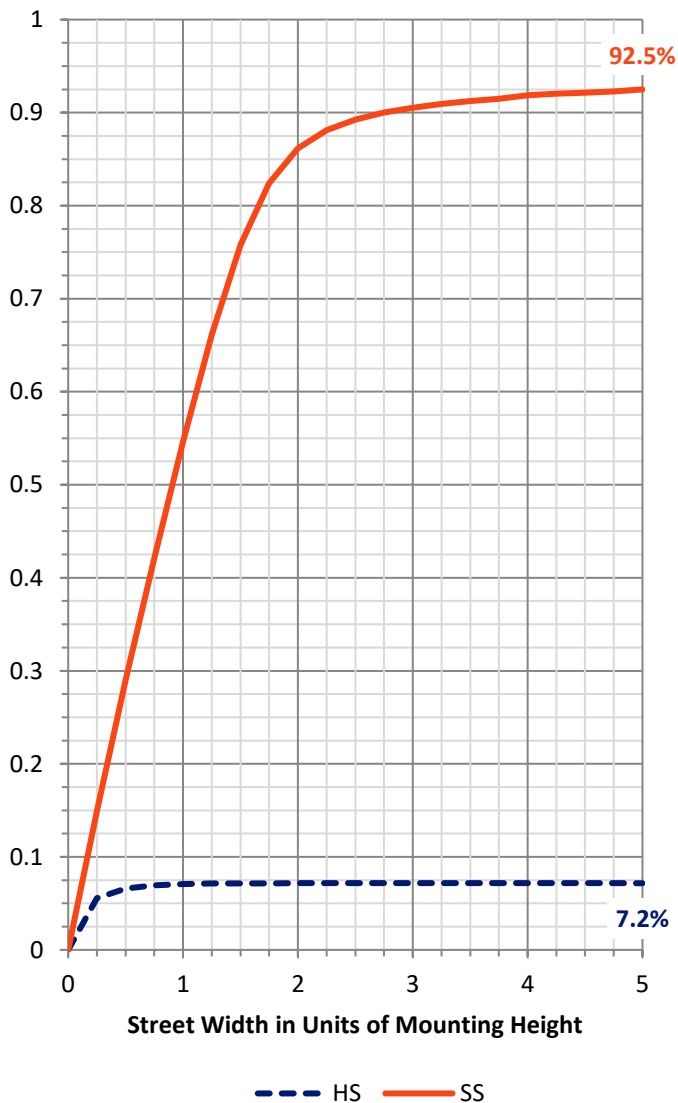
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2253.9	0.0	2253.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	28978.1	0.0	28978.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	31232.0	0.0	31232.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	671.8	2.2
10°-20°	1451.0	4.6
20°-30°	1966.2	6.3
30°-40°	2727.1	8.7
40°-50°	4349.4	13.9
50°-60°	7518.2	24.1
60°-70°	8588.2	27.5
70°-80°	3580.5	11.5
80°-90°	379.6	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°	31232.0	100.0
0°-180°	31232.0	100.0

**Coefficient of Utilization**



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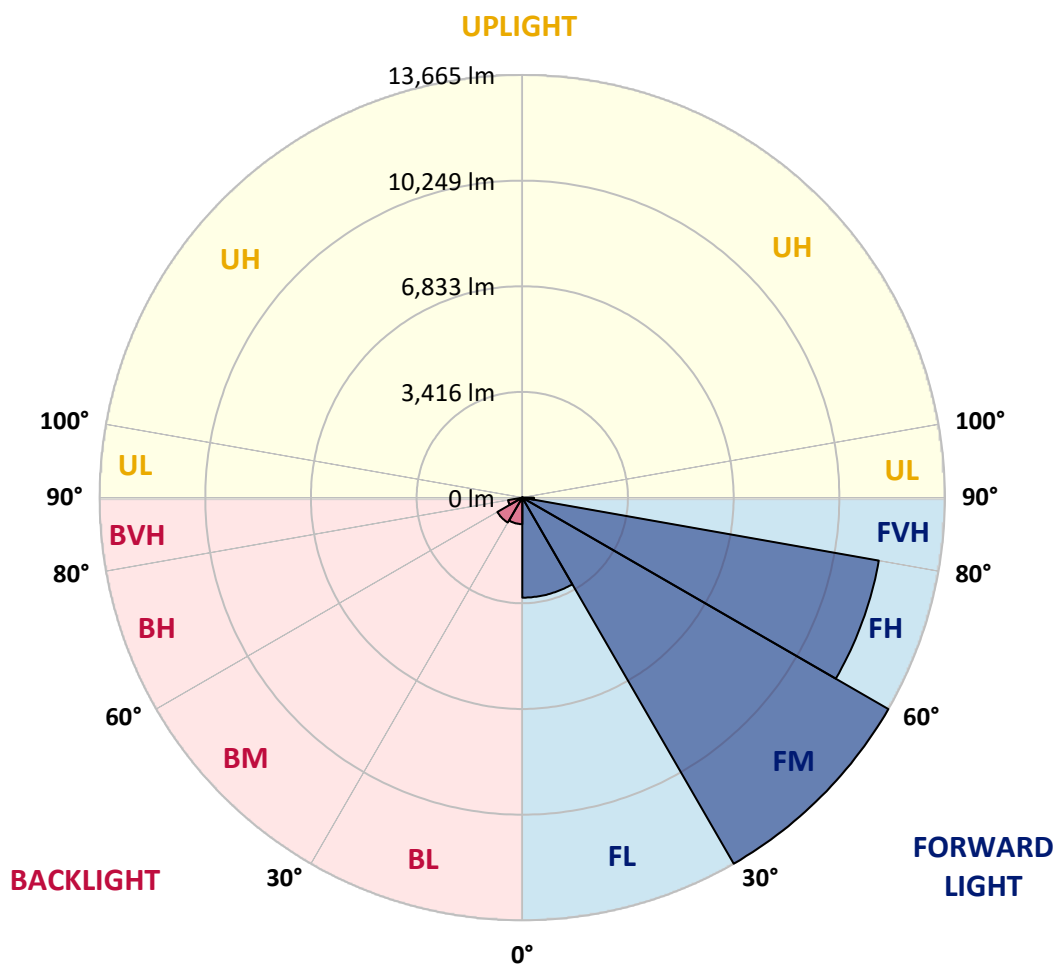
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3233.3	10.4			
FM (30°-60°)	13665.3	43.8			
FH (60°-80°)	11702.7	37.5			G4/12000
FVH (80°-90°)	376.9	1.2			G3/500
BL (0°-30°)	855.9	2.7	B2/1000		
BM (30°-60°)	929.3	3.0	B1/1000		
BH (60°-80°)	465.9	1.5	B1/500		G1/500
BVH (80°-90°)	2.7	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3
2.5°	9608.8	9623.4	9569.1	9525.3	9412.6	9291.5	9130.8	9045.3	8899.2	8646.6	8367.0
5°	9834.2	9853.0	9844.6	9834.2	9790.3	9673.5	9468.9	9393.8	9178.8	8767.7	8262.6
7.5°	9333.3	9402.1	9410.5	9491.9	9569.1	9579.5	9502.3	9446.0	9247.7	8765.6	8076.9
10°	8669.6	8715.5	8782.3	8876.2	9062.0	9216.4	9291.5	9283.2	9168.4	8700.9	7859.8
12.5°	7999.7	8024.7	8127.0	8287.7	8515.2	8778.1	8978.5	9018.1	9020.2	8623.7	7678.2
15°	7423.6	7413.2	7492.5	7678.2	7997.6	8327.3	8686.3	8748.9	8849.1	8548.5	7509.2
17.5°	6931.1	6985.3	6997.9	7202.4	7496.7	7924.5	8381.6	8492.2	8692.6	8483.8	7369.4
20°	6626.4	6655.6	6682.7	6797.5	7062.6	7513.4	8095.7	8248.0	8546.5	8425.4	7212.8
22.5°	6536.6	6555.4	6532.5	6567.9	6755.8	7156.5	7784.7	7987.1	8406.6	8371.1	7085.5
25°	6605.5	6624.3	6570.0	6528.3	6593.0	6866.4	7484.2	7730.4	8293.9	8360.7	6989.5
27.5°	6772.5	6807.9	6732.8	6657.7	6620.1	6709.9	7248.3	7534.2	8216.7	8410.8	6945.7
30°	7033.3	7054.2	6997.9	6906.0	6820.5	6730.7	7125.2	7398.6	8195.8	8527.7	6941.5
32.5°	7317.2	7361.0	7329.7	7269.2	7158.6	6945.7	7160.7	7402.8	8245.9	8696.7	6993.7
35°	7667.8	7717.9	7747.1	7734.6	7592.7	7327.6	7386.1	7590.6	8379.5	9007.7	7135.6
37.5°	8012.2	8056.0	8220.9	8277.2	8152.0	7901.6	7824.3	7960.0	8673.8	9414.7	7392.3
40°	8406.6	8465.1	8696.7	8911.7	8851.2	8588.2	8446.3	8559.0	9124.6	10028.3	7878.6
42.5°	8784.4	8888.7	9241.4	9621.3	9677.6	9383.4	9289.4	9327.0	9792.4	10911.1	8556.9
45°	9320.8	9418.8	9873.8	10389.3	10654.4	10424.8	10328.8	10322.5	10708.6	12152.9	9656.8
47.5°	10095.0	10182.7	10719.1	11228.3	11700.0	11731.3	11549.7	11612.3	11860.7	13605.5	11005.0
50°	11044.7	11251.3	11604.0	12134.1	12764.4	13273.6	13330.0	13246.5	13459.4	15287.6	12624.5
52.5°	12424.2	12503.5	12827.0	13263.2	14002.0	14866.0	15536.0	15421.2	15354.4	16890.5	14260.8
55°	13453.1	13559.5	14062.5	14661.5	15744.7	16884.2	18336.8	18376.5	17533.3	18430.7	15861.6
57.5°	13142.1	13304.9	14066.7	15270.9	17652.2	19735.1	20816.2	20843.3	19549.4	19927.1	17668.9
60°	11545.5	11622.8	12714.3	14321.3	17815.0	22823.9	24332.9	24113.7	21600.9	21600.9	19265.5
62.5°	8187.5	8308.5	9193.4	11558.1	16089.0	23896.7	28544.5	28091.7	24426.8	23201.7	20217.2
65°	5232.2	5115.4	5701.8	7296.3	11985.9	22312.6	32211.5	32238.6	27085.7	23842.4	19697.6
67°	3790.1	3744.2	3913.2	4988.0	8127.0	18756.3	32288.7	33718.3	28613.4	23437.5	18036.3
67.5°	3466.6	3502.1	3625.2	4499.7	7384.0	17067.9	31938.1	33630.7	28957.8	23193.4	17435.2
70°	2627.6	2567.1	2700.6	3182.7	4426.6	10767.1	27473.9	30844.5	28529.9	20770.3	13931.0
72.5°	1932.6	1926.3	2112.1	2602.5	3408.1	5735.2	20624.2	24731.5	23308.1	15815.6	8771.9
75°	1304.4	1362.8	1659.2	2174.7	3088.8	3719.1	14060.4	17942.3	16180.9	8980.6	3585.5
77.5°	743.0	747.2	1068.6	1746.9	2773.7	2992.8	8331.5	11430.8	8565.2	2986.6	1064.4
80°	321.4	352.7	530.1	1268.9	2299.9	2650.5	4777.3	6282.0	3464.5	632.4	344.4
82.5°	119.0	139.8	233.7	780.6	1678.0	2183.1	2886.4	2999.1	1175.0	223.3	215.0
85°	0.0	4.2	85.6	365.2	874.5	974.7	1928.4	1778.2	519.7	106.4	139.8
87.5°	0.0	0.0	0.0	37.6	114.8	363.1	599.0	667.9	125.2	37.6	33.4
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°	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3	8279.3
2.5°	8216.7	8081.0	7740.9	7400.7	7148.1	6937.3	6620.1	6446.9	6355.1	6219.4	6227.7
5°	8010.1	7734.6	7135.6	6515.8	6014.9	5526.5	4942.1	4706.3	4508.0	4395.3	4320.2
7.5°	7703.3	7296.3	6409.3	5582.9	4812.7	3959.1	3318.4	2890.6	2602.5	2496.1	2393.8
10°	7367.3	6826.7	5672.6	4526.8	3458.2	2577.5	2034.9	1642.5	1502.7	1373.3	1385.8
12.5°	7056.3	6398.9	4996.4	3573.0	2423.1	1638.3	1277.3	1116.6	1070.7	1056.0	1056.0
15°	6801.7	5989.8	4270.1	2686.0	1661.3	1177.1	1022.7	978.8	962.1	958.0	958.0
17.5°	6530.4	5601.6	3614.8	1984.8	1208.4	985.1	932.9	903.7	897.4	893.3	893.3
20°	6288.3	5211.4	2992.8	1477.6	976.7	887.0	853.6	834.8	828.6	824.4	826.5
22.5°	6058.7	4864.9	2408.5	1116.6	859.9	807.7	774.3	755.5	743.0	732.6	734.6
25°	5854.2	4531.0	1936.8	914.1	774.3	728.4	695.0	667.9	640.7	628.2	626.1
27.5°	5710.2	4238.8	1508.9	782.6	697.1	647.0	605.2	571.9	536.4	517.6	513.4
30°	5591.2	3942.4	1193.8	690.8	619.9	571.9	519.7	471.7	434.1	415.3	407.0
32.5°	5514.0	3660.7	941.3	615.7	555.2	496.7	438.3	390.3	348.5	329.8	325.6
35°	5501.5	3424.8	770.1	553.1	496.7	434.1	373.6	321.4	285.9	267.1	263.0
37.5°	5591.2	3243.3	644.9	503.0	448.7	379.8	313.1	265.1	233.7	219.1	217.1
40°	5831.2	3128.5	559.3	461.2	404.9	329.8	267.1	225.4	194.1	179.5	179.5
42.5°	6288.3	3132.7	503.0	421.6	361.1	281.8	227.5	187.8	160.7	148.2	144.0
45°	7002.0	3274.6	455.0	381.9	319.3	244.2	194.1	154.4	127.3	116.9	116.9
47.5°	7957.9	3556.3	413.2	342.3	281.8	208.7	164.9	125.2	102.3	91.8	91.8
50°	9208.1	4009.2	377.8	308.9	250.4	179.5	133.6	102.3	79.3	71.0	68.9
52.5°	10514.5	4568.5	336.0	279.7	215.0	152.4	108.5	79.3	60.5	54.3	52.2
55°	11956.7	5115.4	296.4	250.4	175.3	127.3	85.6	62.6	43.8	37.6	37.6
57.5°	13411.4	5651.7	248.4	208.7	137.7	93.9	66.8	45.9	29.2	23.0	23.0
60°	14642.7	5824.9	210.8	169.1	104.4	66.8	48.0	29.2	16.7	10.4	10.4
62.5°	14811.8	5240.6	177.4	129.4	75.1	45.9	25.0	16.7	6.3	4.2	4.2
65°	13893.5	4257.6	148.2	98.1	50.1	23.0	10.4	6.3	2.1	0.0	0.0
67°	12449.2	3452.0	121.0	73.0	35.5	14.6	6.3	2.1	0.0	0.0	0.0
67.5°	12079.8	3291.3	116.9	68.9	31.3	12.5	4.2	2.1	0.0	0.0	0.0
70°	9479.4	2464.8	83.5	41.7	18.8	8.3	0.0	0.0	0.0	0.0	0.0
72.5°	5891.7	1394.1	60.5	25.0	12.5	4.2	0.0	0.0	0.0	0.0	0.0
75°	2226.9	488.4	41.7	16.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	692.9	185.7	25.0	12.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	233.7	71.0	16.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	144.0	29.2	10.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	89.7	12.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.7	4.2	2.1	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)