

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: P300895

Luminaire Tested: **GLNA-AF-10-LED-E1-SL4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300895  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-10-LED-E1-SL4-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53962.6 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

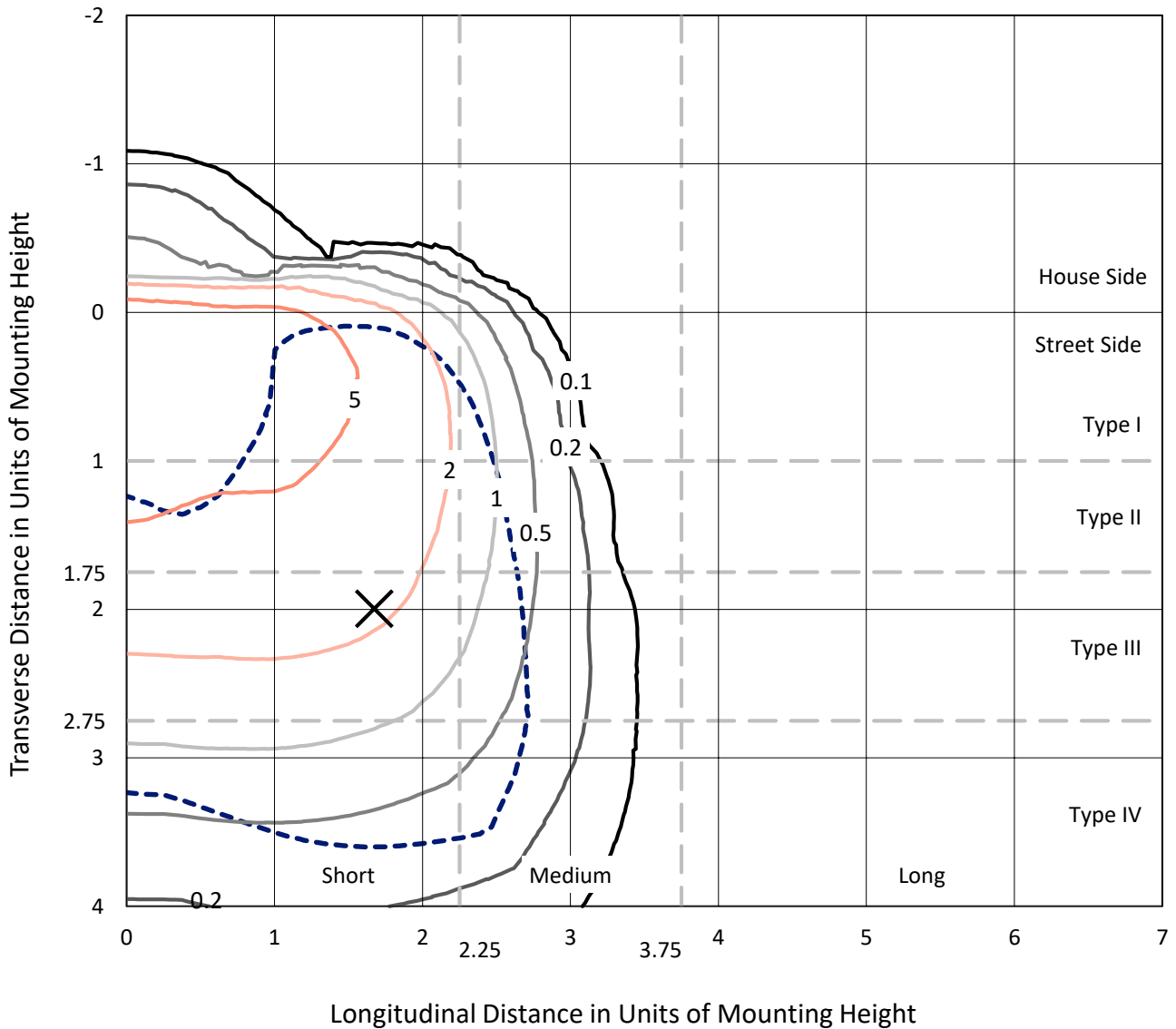
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

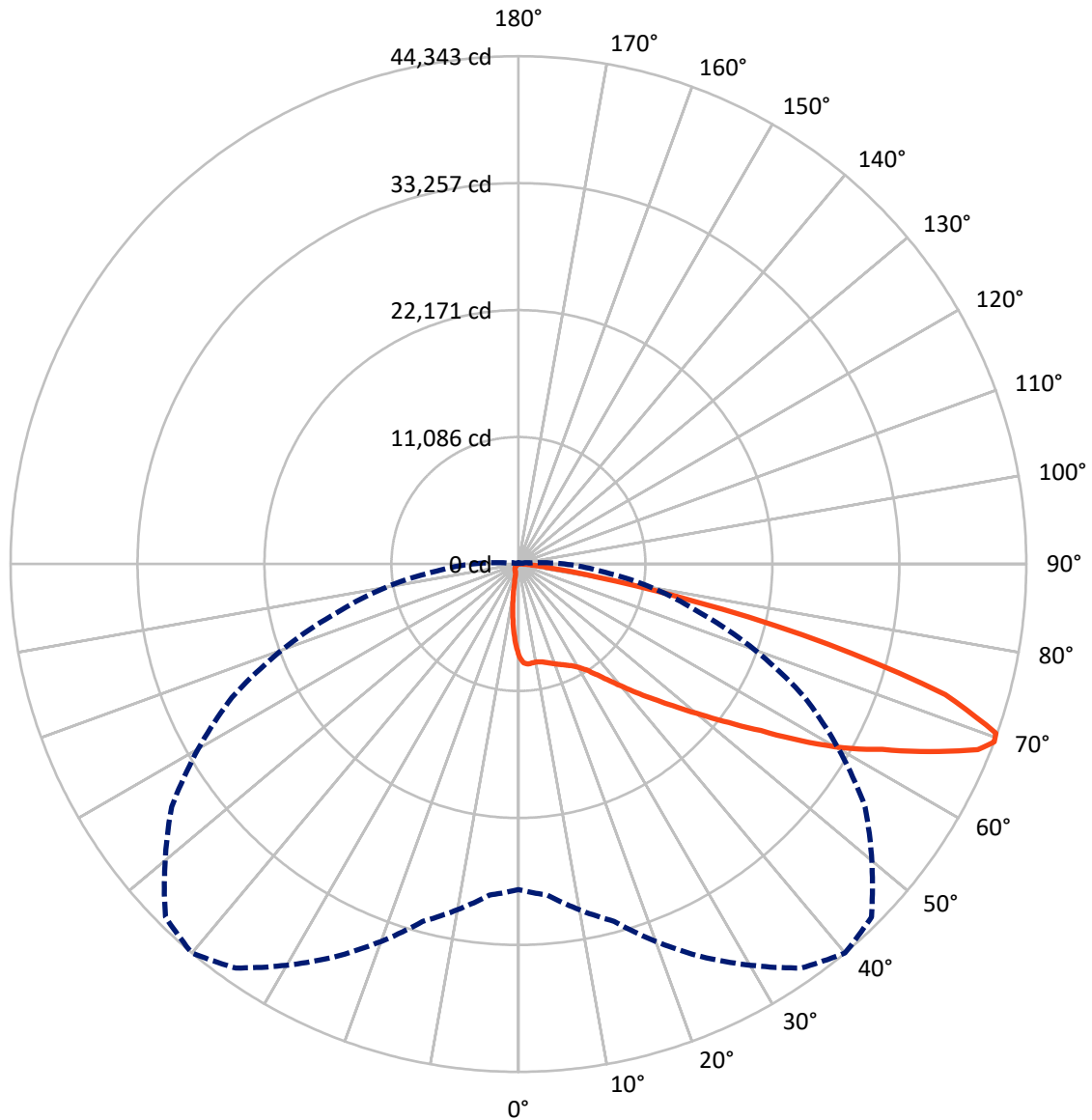
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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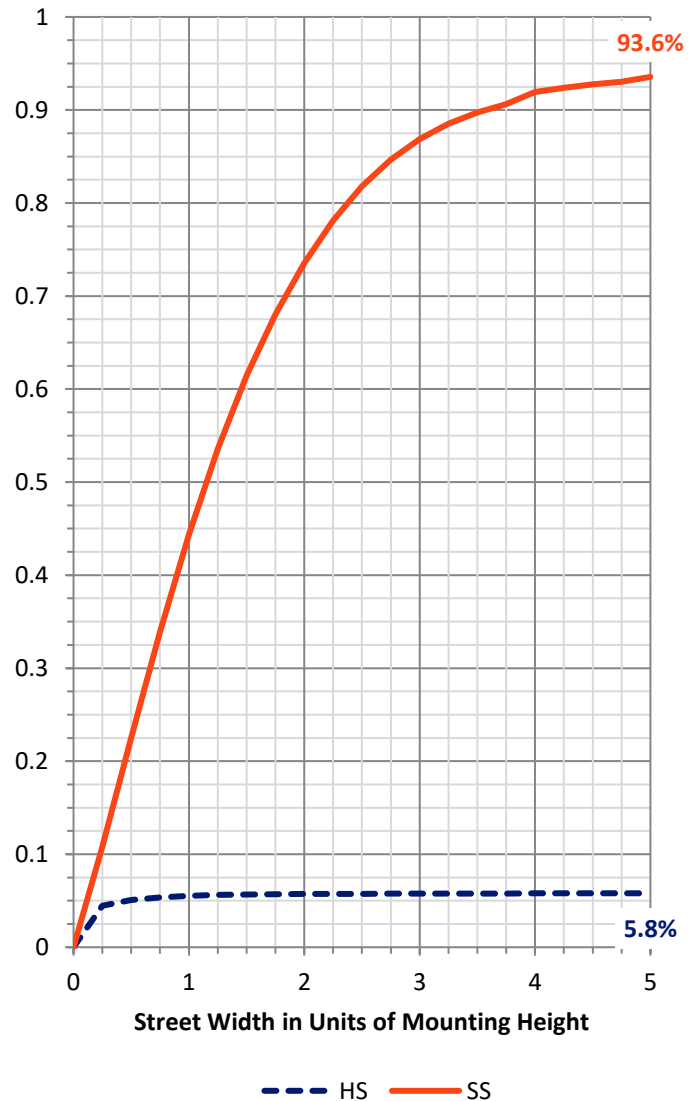
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3157.1	0.0	3157.1
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	50805.5	0.0	50805.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	53962.6	0.0	53962.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.7	1.2
10°-20°	1607.5	3.0
20°-30°	2707.7	5.0
30°-40°	4432.5	8.2
40°-50°	7674.8	14.2
50°-60°	12088.6	22.4
60°-70°	15787.2	29.3
70°-80°	8131.1	15.1
80°-90°	879.5	1.6
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°	53962.6	100.0
0°-180°	53962.6	100.0

**Coefficient of Utilization**



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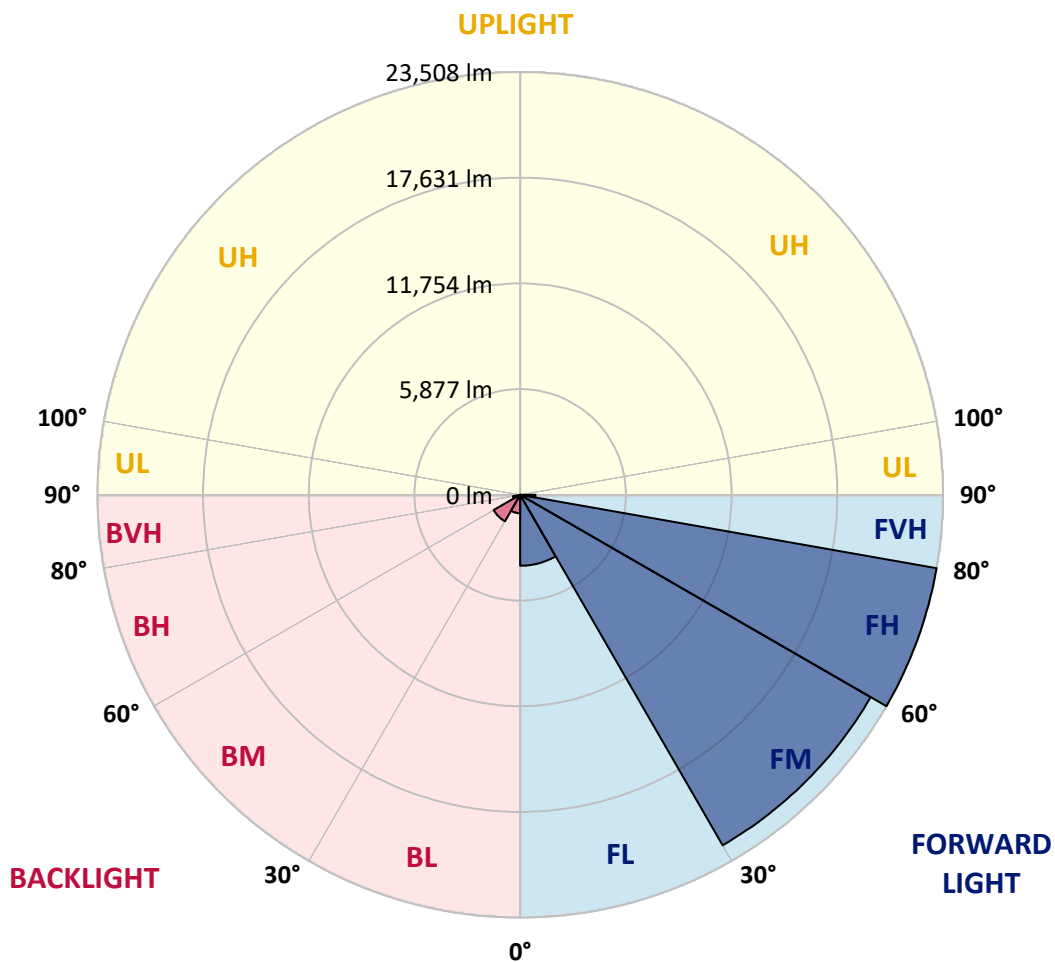
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3946.2	7.3			
FM	(30°-60°)	22499.0	41.7			
FH	(60°-80°)	23508.3	43.6			G5
FVH	(80°-90°)	851.9	1.6			G5
BL	(0°-30°)	1022.7	1.9	B3/2500		
BM	(30°-60°)	1696.9	3.1	B2/2500		
BH	(60°-80°)	409.9	0.8	B1/500		G1/500
BVH	(80°-90°)	27.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3
2.5°	8852.5	8804.3	8775.4	8736.8	8688.6	8646.9	8630.8	8512.0	8399.6	8245.4	8068.7
5°	9016.3	9000.2	8948.8	8897.4	8839.6	8775.4	8740.0	8598.7	8438.1	8213.3	7904.9
7.5°	9032.3	9013.1	8948.8	8878.2	8797.9	8720.8	8659.7	8518.4	8370.6	8142.6	7766.8
10°	9006.6	8984.2	8936.0	8858.9	8759.3	8685.4	8624.4	8489.5	8364.2	8158.7	7741.1
12.5°	8977.7	8955.2	8932.8	8894.2	8807.5	8756.1	8704.7	8576.2	8463.8	8290.3	7834.2
15°	9006.6	8993.8	9019.5	9003.4	8955.2	8910.3	8858.9	8743.2	8640.5	8495.9	8004.5
17.5°	9128.7	9128.7	9209.0	9218.6	9173.7	9109.4	9035.5	8919.9	8833.2	8711.1	8206.8
20°	9414.6	9404.9	9507.7	9527.0	9417.8	9318.2	9209.0	9067.7	9000.2	8923.1	8406.0
22.5°	9906.0	9861.0	9922.1	9902.8	9687.6	9533.4	9398.5	9225.1	9189.7	9154.4	8627.6
25°	10545.2	10519.5	10561.3	10371.8	9992.7	9784.0	9623.4	9427.4	9427.4	9462.7	8878.2
27.5°	11473.5	11377.1	11235.8	10901.8	10333.2	10066.6	9893.2	9684.4	9739.0	9870.7	9209.0
30°	12424.3	12318.3	11993.9	11479.9	10747.6	10468.1	10265.8	10047.3	10175.8	10416.7	9652.3
32.5°	13362.2	13243.4	12784.0	12135.2	11341.8	11062.4	10866.4	10625.5	10840.7	11245.4	10301.1
35°	14271.2	14165.2	13635.2	12870.8	12132.0	11900.7	11720.8	11512.0	11788.3	12353.6	11216.5
37.5°	15292.7	15177.0	14531.4	13702.7	13092.4	12925.4	12793.7	12584.9	13066.7	13895.4	12491.7
40°	16548.6	16352.6	15482.2	14656.7	14203.8	14123.5	14033.5	14004.6	14753.0	15899.7	14190.9
42.5°	17987.6	17666.4	16477.9	15662.0	15424.3	15482.2	15459.7	15588.2	16863.4	18392.3	16259.5
45°	19426.6	19012.2	17586.1	16734.9	16767.0	16969.3	17094.6	17608.6	19506.9	21251.0	18485.4
47.5°	20647.2	20239.2	18649.3	17894.4	18279.9	18678.2	19018.6	19991.9	22224.3	24064.8	20216.7
50°	21691.1	21305.6	19776.7	19169.6	20036.9	20679.3	21231.8	22674.0	25147.3	26207.3	21430.9
52.5°	22545.5	22288.5	20945.9	20631.1	22044.4	22985.6	23795.0	25523.1	27736.2	27948.2	22375.3
55°	23377.4	23194.3	22201.8	22368.8	24402.1	25683.7	26708.3	28545.6	29965.4	29400.0	23281.1
57.5°	24334.6	24167.6	23634.4	24572.3	27501.7	29114.2	30232.0	31224.5	31927.9	30884.0	24135.5
60°	25311.1	25214.7	25227.6	27019.9	31060.7	32608.9	33225.6	33482.6	33855.2	32281.3	24183.7
62.5°	26242.6	26425.7	27048.8	29743.7	34468.7	35657.2	35968.7	36222.5	35785.6	32502.9	22343.1
65°	27819.7	28118.4	29605.6	33389.4	38217.2	39489.2	39810.4	38939.9	36090.8	29637.7	18173.9
67.5°	28590.6	29136.7	31789.8	36787.8	41853.2	43266.5	43147.7	39116.6	32387.3	22600.1	11663.0
69°	28430.0	29011.4	32294.1	37828.5	43061.0	44342.6	43587.7	36954.8	27591.7	16371.9	7159.7
70°	27794.0	28381.8	32033.9	37790.0	43215.1	44230.2	42771.9	34285.6	23329.2	11971.4	4477.6
72.5°	23210.4	23717.9	28439.6	34157.1	39810.4	38984.9	35782.4	23753.2	11367.5	3260.2	1008.6
75°	14287.3	14569.9	20406.3	25731.9	30068.2	27948.2	23840.0	11817.2	3388.7	921.9	558.9
77.5°	7548.4	7676.8	11171.6	15167.4	19060.4	15771.2	12218.7	4609.3	1561.1	578.2	404.7
80°	4461.6	4557.9	6016.2	6934.9	8248.6	6889.9	4885.6	2829.8	1117.8	363.0	359.8
82.5°	2553.6	2614.6	4362.0	3854.5	3250.6	2775.2	2431.5	2682.1	671.3	244.1	372.6
85°	937.9	950.8	2454.0	2932.6	1933.7	1149.9	1207.7	2222.8	179.9	154.2	292.3
87.5°	436.8	427.2	1262.3	1795.5	1130.6	729.1	941.1	488.2	70.7	99.6	80.3
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°	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3	8062.3
2.5°	7965.9	7847.1	7631.9	7410.2	7185.4	7011.9	6841.7	6706.8	6661.8	6578.3	6584.7
5°	7721.8	7503.4	7053.7	6597.6	6122.2	5730.3	5360.9	5062.2	4917.7	4769.9	4769.9
7.5°	7509.8	7191.8	6488.4	5746.4	4978.7	4333.1	3751.7	3314.9	3073.9	2881.2	2878.0
10°	7429.5	6999.1	6016.2	4953.0	3883.4	3003.3	2312.7	1869.4	1641.4	1493.6	1487.2
12.5°	7464.8	6931.6	5653.2	4220.7	2878.0	1930.5	1339.4	1053.6	957.2	912.2	912.2
15°	7567.6	6912.4	5290.3	3504.4	2033.2	1207.7	889.7	812.7	806.2	806.2	806.2
17.5°	7692.9	6918.8	4917.7	2807.3	1384.4	864.0	767.7	758.0	764.5	764.5	764.5
20°	7821.4	6922.0	4516.2	2161.7	976.5	751.6	722.7	719.5	725.9	725.9	729.1
22.5°	7978.8	6938.1	4114.7	1615.7	806.2	709.9	687.4	687.4	690.6	690.6	687.4
25°	8158.7	6970.2	3697.1	1198.1	735.6	681.0	661.7	658.5	661.7	658.5	655.3
27.5°	8383.5	7015.2	3231.3	937.9	703.4	652.0	636.0	636.0	632.8	629.6	626.4
30°	8666.2	7066.5	2707.8	796.6	671.3	626.4	610.3	607.1	603.9	597.4	597.4
32.5°	9096.6	7179.0	2190.6	722.7	636.0	591.0	578.2	578.2	571.7	565.3	562.1
35°	9758.3	7400.6	1728.1	677.7	597.4	552.5	536.4	536.4	530.0	526.8	523.6
37.5°	10673.7	7737.9	1342.6	636.0	558.9	510.7	494.7	491.4	485.0	478.6	475.4
40°	11891.1	8155.4	1056.8	597.4	520.4	469.0	456.1	449.7	436.8	427.2	427.2
42.5°	13420.0	8630.8	857.6	555.7	475.4	430.4	420.8	411.1	388.7	379.0	375.8
45°	15019.6	9058.0	725.9	507.5	430.4	391.9	385.4	369.4	340.5	330.8	330.8
47.5°	16172.8	9157.6	639.2	462.5	388.7	350.1	346.9	318.0	292.3	285.9	282.7
50°	16892.3	8961.7	568.5	417.6	350.1	311.6	301.9	266.6	250.5	244.1	240.9
52.5°	17377.3	8611.6	510.7	379.0	314.8	276.2	253.8	228.1	215.2	208.8	208.8
55°	17765.9	8116.9	452.9	343.7	285.9	247.3	215.2	195.9	183.1	176.7	176.7
57.5°	17875.2	7445.6	395.1	314.8	257.0	218.4	183.1	170.2	154.2	151.0	151.0
60°	17081.8	6234.6	350.1	279.4	231.3	189.5	160.6	144.5	128.5	125.3	122.1
62.5°	14990.7	4824.5	308.4	247.3	202.4	163.8	138.1	118.8	106.0	106.0	106.0
65°	11435.0	3234.6	269.8	215.2	176.7	138.1	118.8	96.4	89.9	89.9	93.1
67.5°	6844.9	1760.2	231.3	183.1	151.0	115.6	99.6	83.5	80.3	83.5	83.5
69°	4011.9	1034.3	208.8	163.8	131.7	102.8	86.7	73.9	80.3	83.5	83.5
70°	2476.5	697.0	192.7	147.8	118.8	93.1	80.3	70.7	77.1	80.3	80.3
72.5°	690.6	359.8	154.2	115.6	96.4	77.1	64.2	64.2	73.9	77.1	77.1
75°	449.7	266.6	118.8	86.7	73.9	61.0	54.6	61.0	70.7	73.9	73.9
77.5°	372.6	218.4	96.4	70.7	61.0	57.8	51.4	54.6	64.2	67.5	67.5
80°	340.5	154.2	77.1	64.2	54.6	51.4	48.2	45.0	57.8	61.0	61.0
82.5°	324.4	122.1	67.5	57.8	51.4	45.0	41.8	45.0	51.4	54.6	57.8
85°	202.4	80.3	61.0	54.6	45.0	41.8	41.8	41.8	48.2	51.4	51.4
87.5°	73.9	64.2	54.6	45.0	38.5	38.5	38.5	38.5	41.8	48.2	48.2
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)