

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: P648156

Luminaire Tested: **GALN-SA9A-835-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-835-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32174.2 lumens  
Efficiency: N/A  
Efficacy: 117.4 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

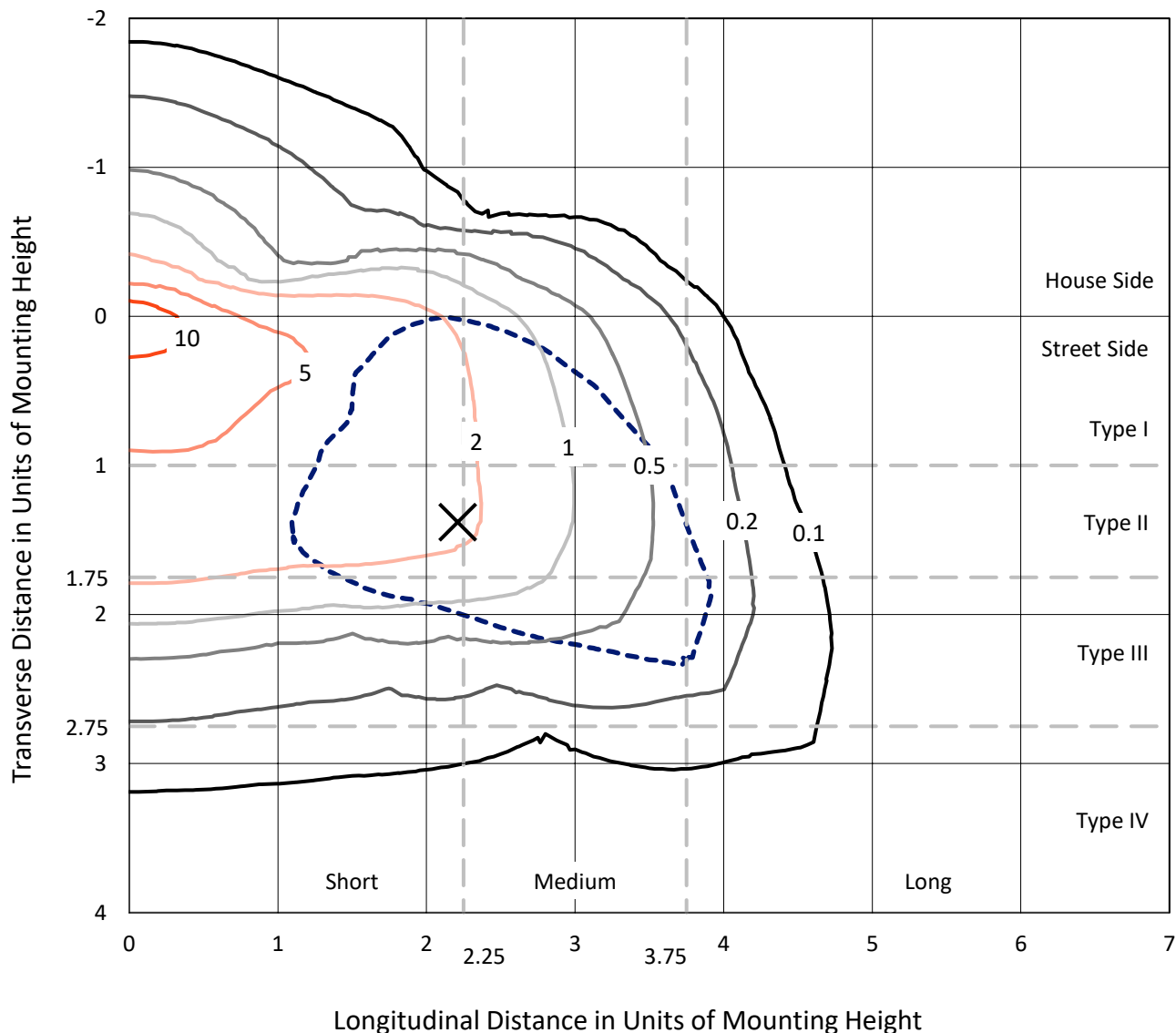
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

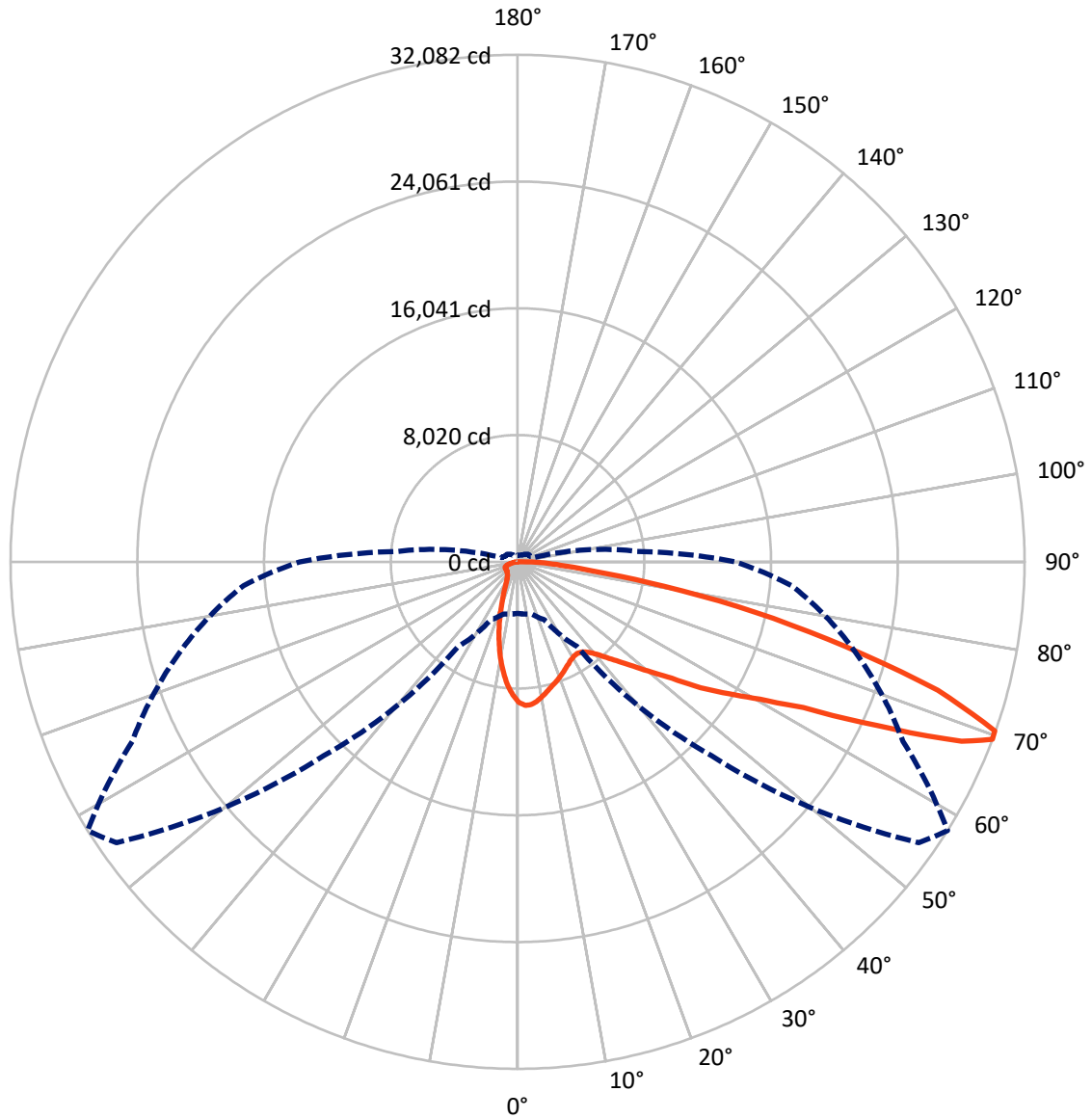
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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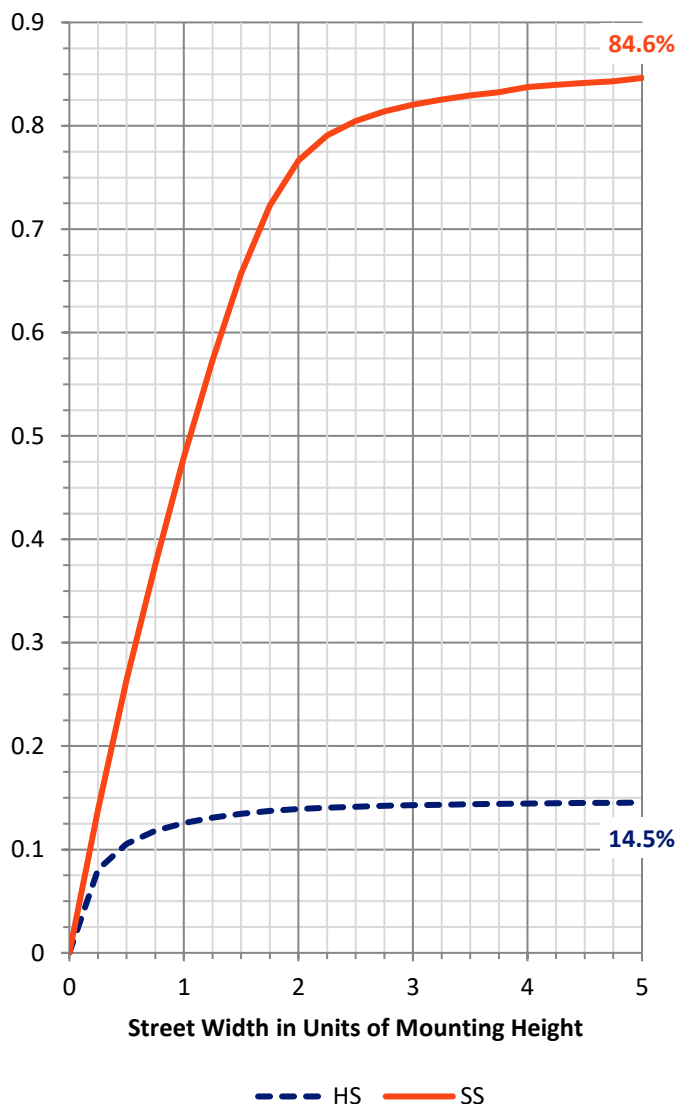
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4715.1	0.0	4715.1
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	27459.1	0.0	27459.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	32174.2	0.0	32174.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	755.1	2.3
10°-20°	1658.0	5.2
20°-30°	2142.2	6.7
30°-40°	2782.3	8.6
40°-50°	4045.0	12.6
50°-60°	6454.5	20.1
60°-70°	8622.4	26.8
70°-80°	4970.4	15.4
80°-90°	744.5	2.3
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°	32174.2	100.0
0°-180°	32174.2	100.0

**Coefficient of Utilization**

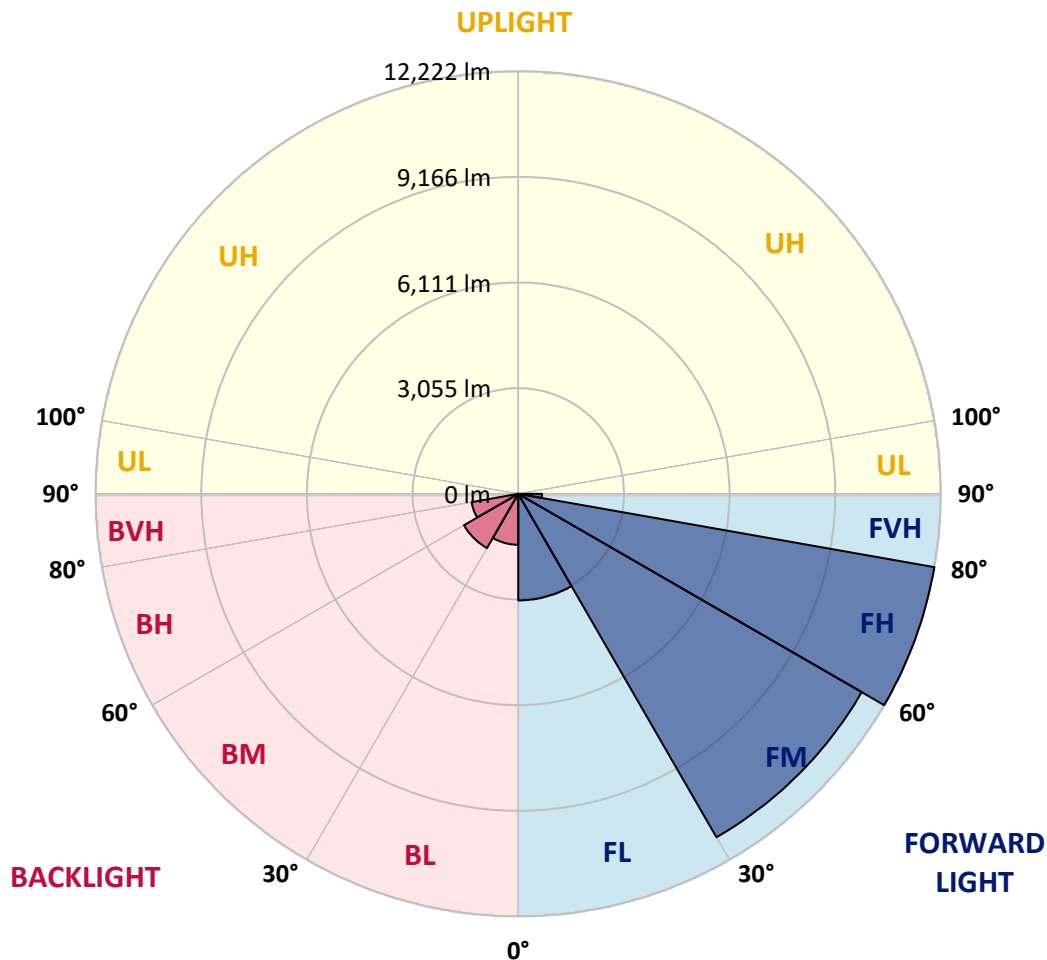


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3081.5	9.6			
FM (30°-60°)	11468.4	35.6			
FH (60°-80°)	12221.8	38.0			G5
FVH (80°-90°)	687.4	2.1			G4/750
BL (0°-30°)	1473.8	4.6	B3/2500		
BM (30°-60°)	1813.3	5.6	B2/2500		
BH (60°-80°)	1371.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	57.0	0.2			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0
2.5°	9221.2	9246.4	9239.2	9230.2	9215.8	9176.4	9111.8	9101.0	9059.8	8971.8	8862.4
5°	9079.5	9101.0	9102.8	9115.4	9133.3	9126.2	9079.5	9074.1	9013.1	8894.6	8711.7
7.5°	8593.2	8621.9	8684.7	8754.7	8817.5	8876.7	8891.0	8900.0	8862.4	8726.0	8481.9
10°	8046.0	8074.6	8103.3	8207.4	8361.7	8508.9	8630.9	8647.1	8656.0	8530.4	8232.5
12.5°	7439.4	7498.6	7559.6	7714.0	7920.4	8151.8	8367.1	8401.2	8462.2	8367.1	8017.2
15°	6924.5	6985.5	7073.4	7211.6	7461.0	7794.7	8097.9	8153.6	8273.8	8225.3	7816.2
17.5°	6567.4	6588.9	6649.9	6807.8	7077.0	7428.6	7834.2	7945.4	8137.5	8124.9	7644.0
20°	6285.7	6312.5	6350.3	6447.1	6727.1	7098.5	7588.4	7731.9	7992.1	8035.1	7473.5
22.5°	6167.2	6187.0	6181.6	6233.6	6423.8	6797.1	7339.0	7509.4	7862.9	7974.2	7315.6
25°	6174.4	6192.4	6165.4	6152.9	6266.0	6531.5	7078.8	7295.9	7758.8	7932.9	7172.0
27.5°	6294.6	6307.2	6257.0	6206.7	6215.7	6366.4	6863.5	7103.9	7670.9	7950.8	7051.9
30°	6456.1	6479.5	6447.1	6386.1	6319.7	6327.0	6725.3	6962.1	7629.6	8013.6	6994.5
32.5°	6664.3	6685.8	6671.5	6623.0	6536.9	6441.7	6691.2	6910.1	7633.2	8141.0	6981.9
35°	6883.2	6926.3	6949.6	6946.0	6876.0	6710.9	6825.8	7007.0	7719.4	8354.5	7055.5
37.5°	7130.8	7166.7	7267.2	7331.8	7267.2	7075.2	7129.0	7254.7	7909.6	8663.2	7216.9
40°	7371.2	7425.1	7572.2	7773.2	7748.1	7579.4	7592.0	7674.5	8245.1	9122.6	7532.8
42.5°	7622.4	7687.0	7943.7	8241.5	8300.7	8169.7	8203.8	8277.4	8722.4	9759.5	8074.6
45°	7945.4	8022.6	8338.4	8709.9	8943.1	8862.4	8959.2	8995.2	9361.2	10588.6	8788.8
47.5°	8361.7	8451.5	8840.9	9303.8	9634.0	9707.5	9876.2	9854.7	10152.5	11570.1	9714.7
50°	9063.3	9113.6	9481.4	9953.3	10407.3	10739.3	10922.3	10956.4	11134.0	12524.6	10750.0
52.5°	9897.7	9942.6	10208.1	10620.8	11189.7	11893.1	12345.2	12234.0	12277.0	13687.4	11961.3
55°	10836.2	10911.5	11080.2	11354.8	12092.3	13127.5	14035.5	14062.4	13585.1	14800.0	13122.2
57.5°	11562.9	11690.3	11979.2	12370.4	13305.2	14500.3	15720.4	15738.4	15128.3	15987.8	14403.4
60°	11196.8	11347.5	12007.9	12960.7	14896.8	16895.7	17733.7	17631.4	16630.2	17340.7	15966.2
62.5°	9617.8	9644.7	10604.7	12094.0	15386.7	20100.5	20730.3	20297.9	18634.5	19056.2	17554.3
65°	6224.6	6400.5	7161.3	9248.2	13777.1	21878.7	25980.6	24981.1	21444.5	21003.0	18883.9
67.5°	3929.6	3884.8	4200.6	5280.8	9476.0	20312.2	30461.1	30303.3	25119.3	22232.2	18566.3
69°	3258.5	3308.8	3416.5	4048.1	6520.7	17342.5	30990.5	32081.5	26901.1	22135.3	17412.5
70°	2955.4	2978.6	3091.7	3588.7	5031.4	14525.4	30122.0	32033.0	27600.9	21729.7	16576.3
72.5°	2345.2	2343.4	2537.2	2985.8	3761.0	8291.7	24733.6	27810.8	26818.6	19842.1	13696.4
75°	1781.8	1810.5	2024.1	2526.4	3464.9	4530.8	17260.0	21417.6	21419.4	15672.0	8546.5
77.5°	1284.7	1302.7	1552.1	2120.9	3263.9	3673.1	11496.5	15361.6	14441.0	7181.0	2686.2
80°	841.6	852.3	1042.6	1679.5	2942.7	3464.9	6816.8	9402.5	6811.4	1905.6	888.2
82.5°	461.2	515.0	637.0	1087.4	2361.4	3201.1	4143.2	4758.7	2555.2	848.8	462.9
85°	231.5	245.9	358.8	635.2	1543.1	2648.5	2885.4	2729.2	1318.9	421.6	240.5
87.5°	68.2	86.1	148.9	245.9	626.2	1379.9	1605.9	1440.9	507.8	152.5	50.3
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°	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0
2.5°	8817.5	8785.2	8641.7	8512.5	8394.1	8268.4	8162.5	8069.3	8078.2	8080.0	7985.0
5°	8616.5	8543.0	8270.2	8015.4	7800.1	7527.4	7294.1	7143.4	7068.0	6967.5	7003.4
7.5°	8343.8	8202.1	7823.4	7400.0	7003.4	6649.9	6266.0	6002.2	5833.5	5670.2	5691.7
10°	8062.1	7834.2	7283.3	6723.5	6210.3	5645.0	5155.2	4735.3	4423.1	4306.5	4229.3
12.5°	7773.2	7473.5	6773.7	6029.1	5320.3	4643.8	3949.4	3499.0	3154.5	2971.5	2994.8
15°	7509.4	7145.2	6242.6	5334.7	4414.2	3608.5	2915.8	2487.0	2246.6	2196.3	2225.1
17.5°	7265.4	6788.1	5745.6	4659.9	3585.1	2705.9	2190.9	1948.7	1851.8	1824.9	1823.1
20°	7014.2	6484.8	5187.5	3938.6	2793.8	2097.6	1797.9	1684.9	1666.9	1677.7	1679.5
22.5°	6759.4	6109.8	4613.3	3222.7	2225.1	1715.4	1571.9	1541.3	1555.7	1580.8	1584.4
25°	6524.3	5779.6	4060.6	2594.6	1776.4	1507.3	1437.3	1437.3	1469.6	1507.3	1509.1
27.5°	6330.6	5460.3	3509.8	2059.9	1487.5	1356.5	1333.2	1345.7	1390.6	1419.3	1421.1
30°	6170.8	5162.4	2989.4	1650.8	1308.1	1236.3	1231.0	1252.5	1284.7	1311.7	1313.5
32.5°	6050.6	4900.4	2503.2	1387.0	1184.3	1144.8	1143.0	1159.2	1177.1	1184.3	1191.5
35°	6004.0	4683.3	2058.1	1220.1	1101.8	1076.6	1076.6	1074.8	1082.0	1085.6	1089.2
37.5°	6041.6	4516.4	1713.6	1112.5	1040.8	1022.8	1012.0	1001.2	997.7	997.7	999.5
40°	6201.4	4428.5	1457.0	1042.6	997.7	970.8	951.0	938.4	925.9	929.5	933.1
42.5°	6540.5	4444.6	1282.9	995.9	960.0	922.3	893.6	879.2	870.3	881.0	879.2
45°	7080.6	4606.2	1171.8	963.6	922.3	873.8	847.0	832.6	832.6	848.8	854.1
47.5°	7836.0	4914.7	1112.5	938.4	893.6	836.2	809.2	798.5	802.1	829.0	830.8
50°	8758.3	5451.2	1101.8	925.9	879.2	809.2	778.8	768.0	777.0	805.7	809.2
52.5°	9775.7	6142.1	1153.8	927.7	866.7	793.1	753.6	737.5	746.4	769.8	777.0
55°	10981.5	7007.0	1288.3	934.9	848.8	784.2	735.7	699.8	710.6	726.7	728.5
57.5°	12212.5	8097.9	1525.2	936.6	834.4	768.0	705.2	658.5	658.5	669.3	674.7
60°	13716.1	9285.8	1837.5	938.4	836.2	744.6	663.9	611.9	604.7	610.1	611.9
62.5°	15209.1	10279.9	1889.5	933.1	854.1	721.3	619.0	565.2	552.6	550.8	547.3
65°	15867.6	10095.1	1548.5	908.0	873.8	707.0	583.2	520.4	498.8	491.6	491.6
67.5°	14794.6	8539.4	1164.6	873.8	861.3	692.6	549.0	482.7	457.6	443.2	443.2
69°	13786.1	7595.6	1046.1	850.5	829.0	669.3	527.5	462.9	432.5	416.3	410.9
70°	13007.4	6946.0	995.9	830.8	798.5	642.4	511.4	448.6	414.5	396.6	393.0
72.5°	10380.4	5449.5	872.0	755.4	680.0	540.1	454.0	403.7	371.5	351.7	346.3
75°	5982.4	2953.6	723.1	656.7	547.3	419.8	384.0	351.7	326.6	308.7	303.3
77.5°	1841.0	1141.2	524.0	518.6	401.9	324.8	306.9	294.3	276.3	256.6	253.0
80°	775.2	581.4	355.2	349.9	267.4	226.1	220.7	218.9	211.7	195.6	190.2
82.5°	425.2	328.4	247.6	215.3	161.5	131.0	136.4	138.2	132.8	116.7	105.9
85°	208.1	179.5	120.2	96.9	73.6	46.7	44.9	53.8	50.3	35.9	39.5
87.5°	41.3	50.3	32.3	14.3	7.2	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)