

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: STREETWORKS

Report Number: P323163

Luminaire Tested: **GAN-SA9B-730-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38537 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

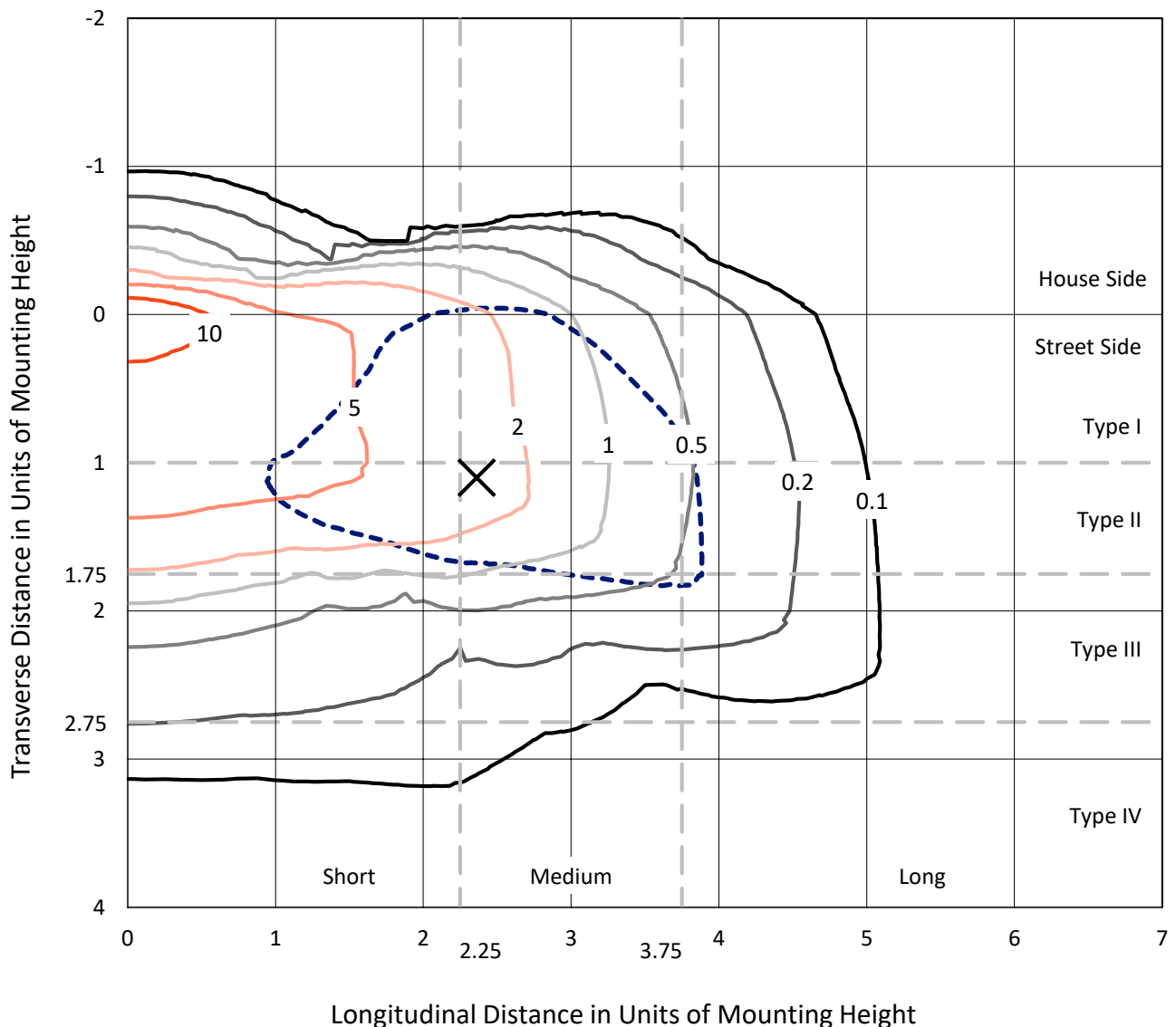
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

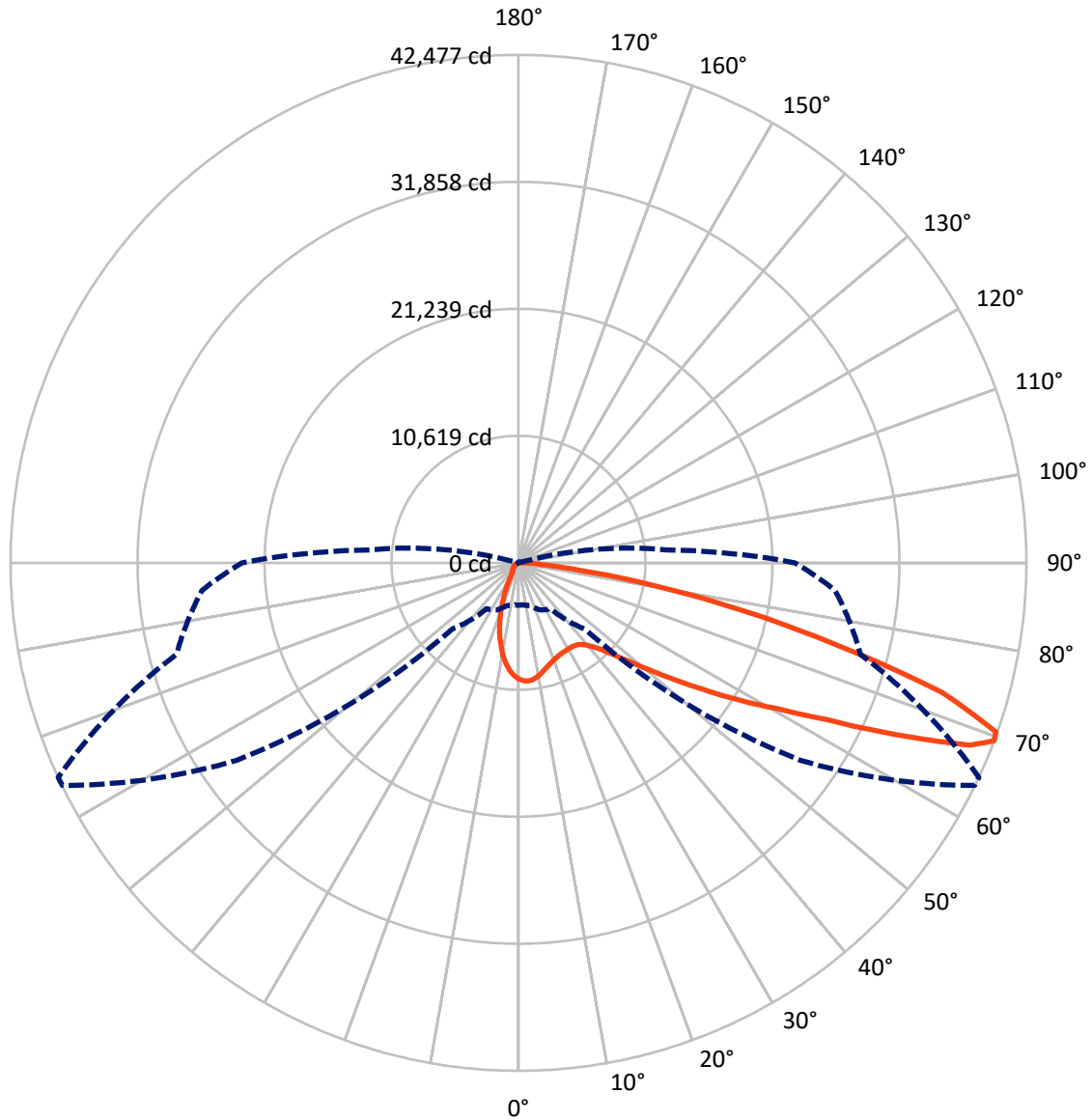
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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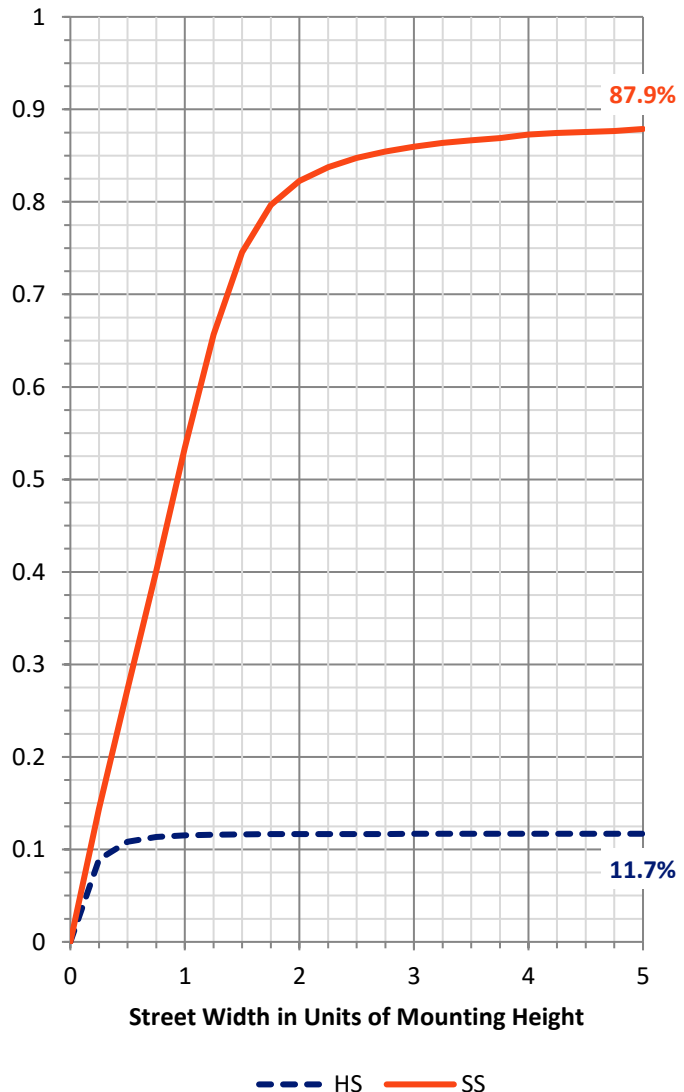
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4542.6	0.0	4542.6
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	33994.4	0.0	33994.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	38537.0	0.0	38537.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	814.3	2.1
10°-20°	1782.6	4.6
20°-30°	2469.0	6.4
30°-40°	3442.5	8.9
40°-50°	5350.8	13.9
50°-60°	8590.2	22.3
60°-70°	9716.9	25.2
70°-80°	5706.8	14.8
80°-90°	663.9	1.7
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°	38537.0	100.0
0°-180°	38537.0	100.0

**Coefficient of Utilization**

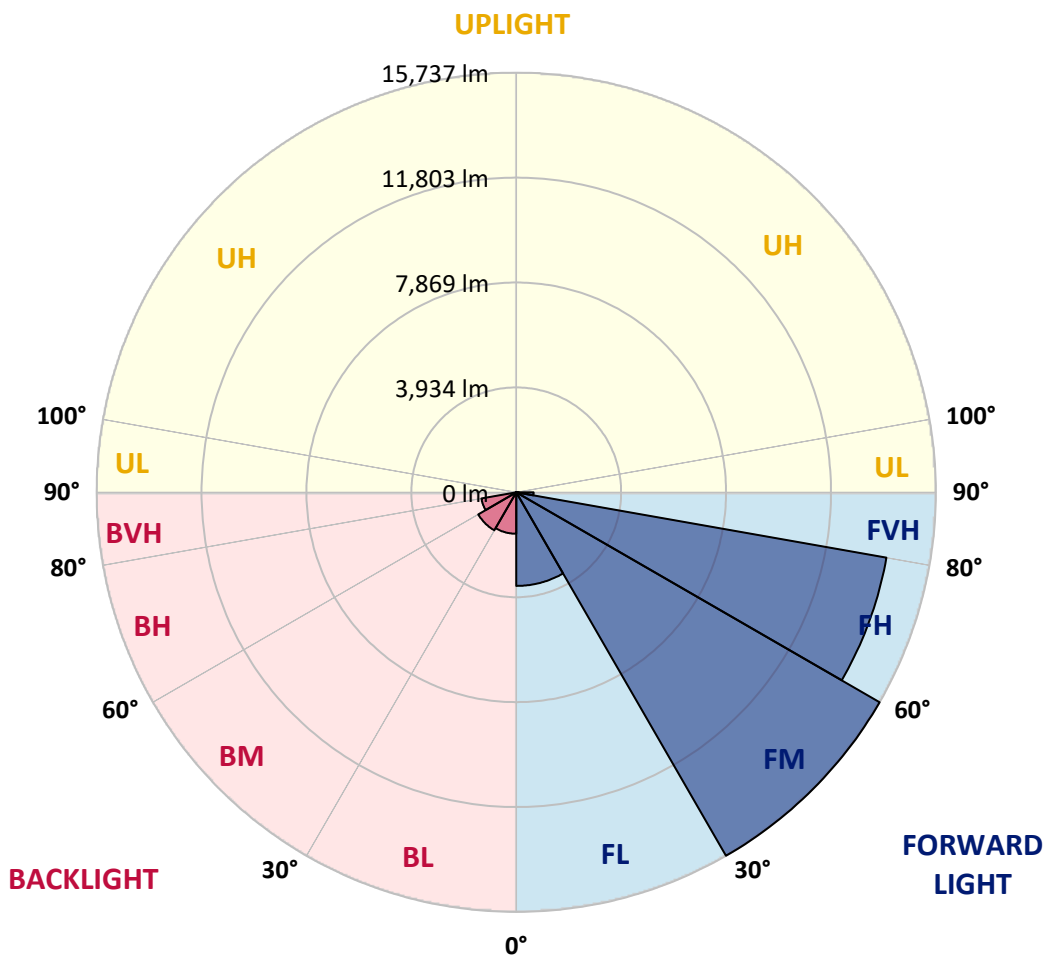


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3511.6	9.1			
FM (30°-60°)	15737.4	40.8			
FH (60°-80°)	14096.5	36.6			G5
FVH (80°-90°)	648.9	1.7			G4/750
BL (0°-30°)	1554.3	4.0	B3/2500		
BM (30°-60°)	1646.1	4.3	B2/2500		
BH (60°-80°)	1327.3	3.4	B3/2500		G3/2500
BVH (80°-90°)	14.9	0.0			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4
2.5°	9824.8	9800.3	9819.9	9862.3	9883.5	9883.5	9899.8	9880.2	9886.8	9839.5	9771.0
5°	9210.0	9172.5	9226.3	9345.4	9492.1	9617.7	9803.6	9901.4	9911.2	9912.8	9832.9
7.5°	8548.0	8513.7	8593.6	8733.9	8923.0	9156.2	9480.7	9764.5	9780.8	9934.0	9875.3
10°	8009.9	7985.4	8078.3	8228.4	8450.1	8711.0	9108.9	9503.6	9550.8	9890.0	9868.8
12.5°	7582.6	7563.1	7651.1	7824.0	8050.6	8339.3	8755.1	9213.3	9276.9	9790.5	9836.2
15°	7271.2	7267.9	7341.3	7507.6	7758.7	8027.8	8453.4	8944.2	9017.6	9682.9	9831.3
17.5°	7108.1	7113.0	7166.8	7308.7	7523.9	7791.3	8199.0	8717.6	8797.5	9586.7	9855.8
20°	7091.8	7096.7	7126.0	7205.9	7380.4	7616.9	7991.9	8526.8	8609.9	9515.0	9894.9
22.5°	7235.3	7232.0	7240.2	7232.0	7329.9	7509.2	7854.9	8380.0	8476.2	9467.7	9925.9
25°	7510.9	7506.0	7502.7	7442.4	7377.2	7473.4	7797.9	8296.9	8388.2	9433.4	9943.8
27.5°	7894.1	7890.8	7885.9	7786.5	7590.8	7530.4	7804.4	8265.9	8342.5	9405.7	9940.6
30°	8398.0	8420.8	8414.3	8275.7	7970.7	7704.9	7872.9	8249.6	8316.4	9351.9	9906.3
32.5°	8989.9	9035.5	9071.4	8923.0	8541.5	8050.6	8031.1	8267.5	8316.4	9311.1	9844.4
35°	9604.7	9663.4	9795.4	9743.3	9241.0	8570.8	8303.4	8375.1	8415.9	9334.0	9815.0
37.5°	10209.6	10279.8	10566.7	10718.4	10157.4	9259.0	8727.4	8640.9	8662.1	9472.6	9847.6
40°	10912.5	11018.4	11453.8	11698.4	11251.6	10180.3	9361.7	9097.5	9105.7	9777.5	9999.3
42.5°	11835.4	11944.7	12415.9	12799.1	12484.4	11344.6	10222.7	9795.4	9787.3	10348.2	10356.4
45°	12960.6	13074.7	13562.3	13987.9	13846.0	12724.1	11325.0	10814.6	10804.8	11248.4	11033.1
47.5°	14235.8	14348.3	14783.7	15222.3	15375.6	14335.2	12729.0	12205.6	12182.7	12499.1	12078.4
50°	15329.9	15403.3	15804.5	16394.8	17086.2	16314.9	14475.5	13971.6	13947.1	14160.7	13612.8
52.5°	15727.8	15770.2	16177.9	17004.6	18729.9	18995.7	16769.8	16120.8	16102.9	16195.8	15656.1
55°	14922.3	14998.9	15499.5	16725.8	19620.2	22025.5	19665.9	18782.1	18646.7	18446.2	17792.3
57.5°	12727.4	12849.7	13387.8	15018.5	19204.4	24429.1	23921.9	21792.3	21593.3	20367.1	19528.9
60°	9536.2	9686.2	10133.0	11892.5	16985.1	25285.2	28572.6	25146.6	24698.1	21896.7	21125.3
62.5°	6543.9	6618.9	6922.2	8068.6	12508.9	23882.8	32463.4	29639.1	28820.5	23559.9	22852.2
65°	4998.0	5024.1	5148.0	5542.7	7448.9	19400.1	34010.9	35566.6	34576.7	25549.4	24644.3
67.5°	4027.8	4006.6	4177.8	4742.0	4988.2	11835.4	32205.8	41174.4	40711.3	28209.0	26447.9
69°	3551.6	3522.2	3696.7	4352.3	4684.9	7824.0	28791.1	42448.0	42477.3	29613.0	26571.8
70°	3196.1	3215.7	3388.5	4120.7	4582.2	6141.1	25529.8	42123.5	42355.0	30138.1	25828.2
72.5°	2134.5	2186.7	2534.1	3421.1	4406.1	4647.4	15414.7	36147.1	37037.4	28955.8	22159.2
75°	1203.4	1242.6	1655.1	2579.7	4151.7	4425.6	8141.9	26630.5	27491.5	24213.8	17087.8
77.5°	590.3	611.5	936.0	1664.9	3471.7	4216.9	4618.1	18089.0	19072.3	15804.5	9665.0
80°	249.5	260.9	468.0	1027.3	2481.9	4024.5	3429.3	11132.6	11254.9	6191.7	2574.8
82.5°	96.2	99.5	197.3	640.9	1576.9	3137.4	2868.4	5278.5	5151.3	1165.9	587.0
85°	11.4	13.0	71.7	384.8	877.3	1614.4	2330.2	2274.8	2105.2	231.6	301.7
87.5°	0.0	0.0	4.9	117.4	260.9	756.6	1211.6	944.2	851.2	75.0	156.5
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°	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4	9738.4
2.5°	9713.9	9697.6	9609.5	9482.4	9361.7	9211.7	9068.2	8981.7	8913.2	8867.6	8921.4
5°	9740.0	9668.2	9400.8	9058.4	8722.5	8344.1	7991.9	7693.5	7576.1	7445.6	7504.3
7.5°	9731.8	9596.5	9115.5	8505.6	7889.2	7251.6	6648.2	6183.5	5942.2	5705.7	5766.1
10°	9691.1	9462.8	8733.9	7830.5	6907.5	5991.1	5135.0	4484.3	4120.7	3791.3	3838.6
12.5°	9601.4	9283.4	8283.8	7057.5	5823.1	4614.8	3611.9	2778.7	2331.9	2134.5	2159.0
15°	9547.6	9108.9	7807.7	6274.8	4665.3	3214.1	2207.9	1642.1	1438.3	1373.0	1381.2
17.5°	9521.5	8941.0	7315.2	5379.6	3481.5	2046.5	1426.8	1258.9	1214.8	1203.4	1206.7
20°	9495.4	8771.4	6808.1	4494.1	2398.7	1376.3	1172.5	1123.5	1107.2	1092.5	1095.8
22.5°	9451.4	8608.3	6263.4	3597.3	1617.6	1117.0	1056.7	1009.4	975.1	957.2	960.5
25°	9397.6	8437.1	5707.3	2679.2	1180.6	996.3	939.3	872.4	831.6	799.0	800.7
27.5°	9311.1	8226.7	5133.4	1950.3	991.4	892.0	815.3	742.0	673.5	636.0	636.0
30°	9190.5	7988.7	4495.8	1395.9	888.7	789.2	696.3	605.0	531.6	497.4	494.1
32.5°	9056.7	7740.8	3851.6	1058.3	807.2	693.0	587.0	490.8	425.6	397.9	396.3
35°	8942.6	7473.4	3209.2	887.1	725.6	600.1	484.3	402.8	350.6	327.8	326.1
37.5°	8869.2	7205.9	2583.0	792.5	652.3	513.7	406.0	332.7	295.2	277.2	275.6
40°	8857.8	7007.0	2010.6	720.8	583.8	437.0	339.2	282.1	247.9	228.3	226.7
42.5°	9006.2	6892.8	1542.6	660.4	513.7	370.2	288.6	241.3	205.5	185.9	184.3
45°	9395.9	6928.7	1187.1	606.6	443.5	313.1	244.6	200.6	168.0	153.3	150.0
47.5°	10106.9	7176.6	944.2	552.8	376.7	265.8	208.7	166.3	138.6	123.9	122.3
50°	11372.3	7758.7	789.2	494.1	314.7	226.7	172.9	135.3	112.5	99.5	97.8
52.5°	13051.9	8795.8	704.4	437.0	260.9	192.4	141.9	107.6	88.1	78.3	76.6
55°	14904.3	10051.5	649.0	375.1	213.6	159.8	112.5	84.8	68.5	60.3	57.1
57.5°	16712.7	11139.1	596.8	314.7	177.7	130.5	89.7	66.9	53.8	45.7	44.0
60°	18374.4	12138.7	536.5	252.8	145.1	102.7	70.1	52.2	42.4	34.2	34.2
62.5°	20153.5	12911.7	453.3	197.3	119.0	78.3	57.1	47.3	34.2	29.4	27.7
65°	22038.5	13485.6	355.5	153.3	92.9	58.7	47.3	48.9	27.7	21.2	19.6
67.5°	23431.1	13371.5	262.5	120.7	71.7	45.7	45.7	52.2	24.5	16.3	14.7
69°	23124.5	12443.7	220.1	104.4	62.0	39.1	42.4	52.2	22.8	14.7	13.0
70°	22235.8	11416.3	194.0	92.9	55.4	35.9	40.8	50.6	21.2	14.7	13.0
72.5°	18517.9	8598.5	151.7	70.1	44.0	29.4	34.2	44.0	21.2	14.7	11.4
75°	13929.2	5503.5	115.8	50.6	32.6	22.8	26.1	32.6	21.2	13.0	11.4
77.5°	7579.4	1984.5	83.2	34.2	22.8	17.9	17.9	24.5	19.6	9.8	6.5
80°	1948.7	499.0	52.2	22.8	17.9	13.0	11.4	16.3	11.4	1.6	0.0
82.5°	481.0	112.5	27.7	16.3	13.0	4.9	4.9	8.2	4.9	0.0	0.0
85°	264.2	55.4	17.9	11.4	6.5	0.0	0.0	1.6	0.0	0.0	0.0
87.5°	135.3	16.3	4.9	3.3	1.6	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)