

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: P319312

Luminaire Tested: **GAN-SA8A-730-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33320 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

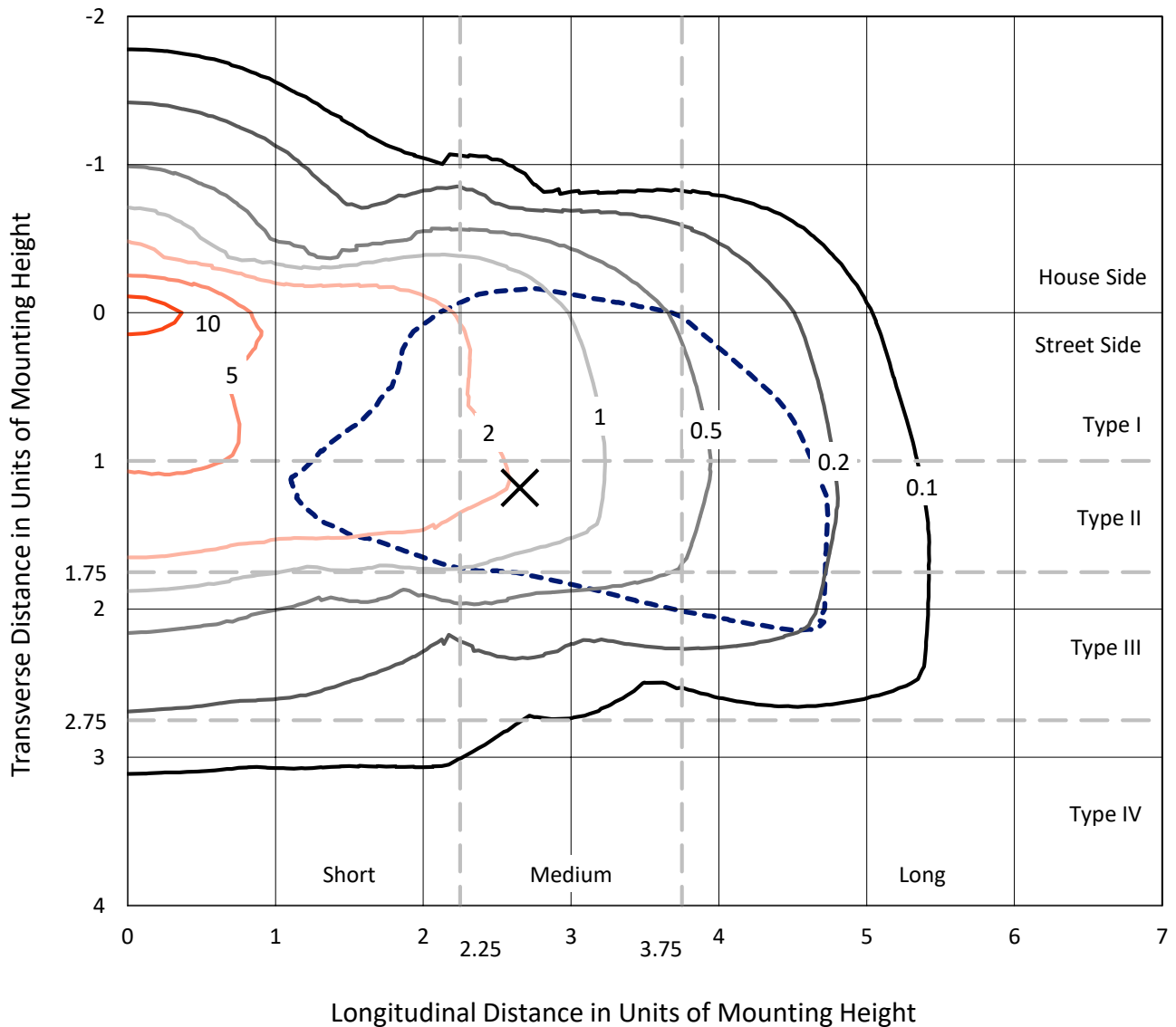
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

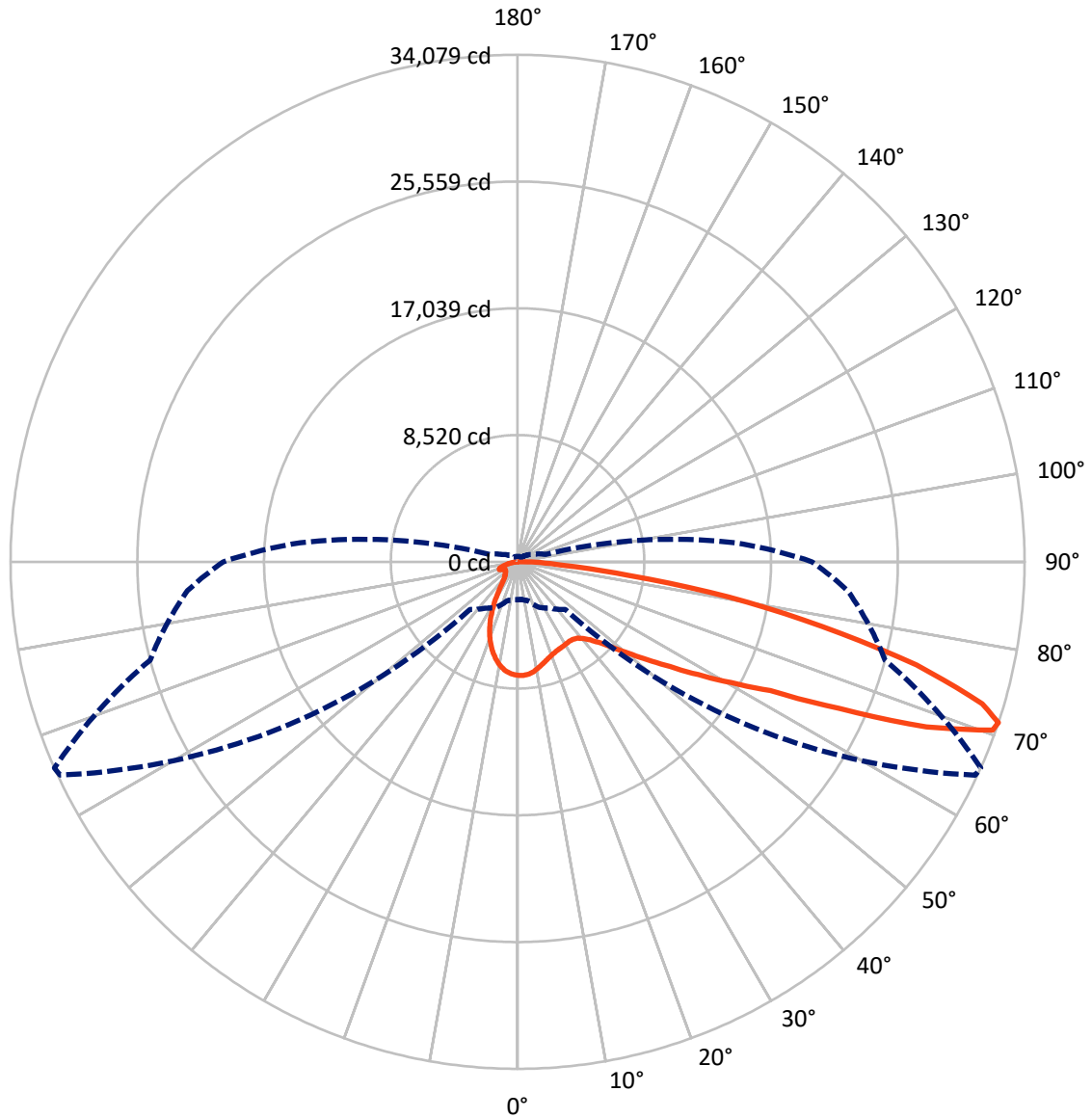
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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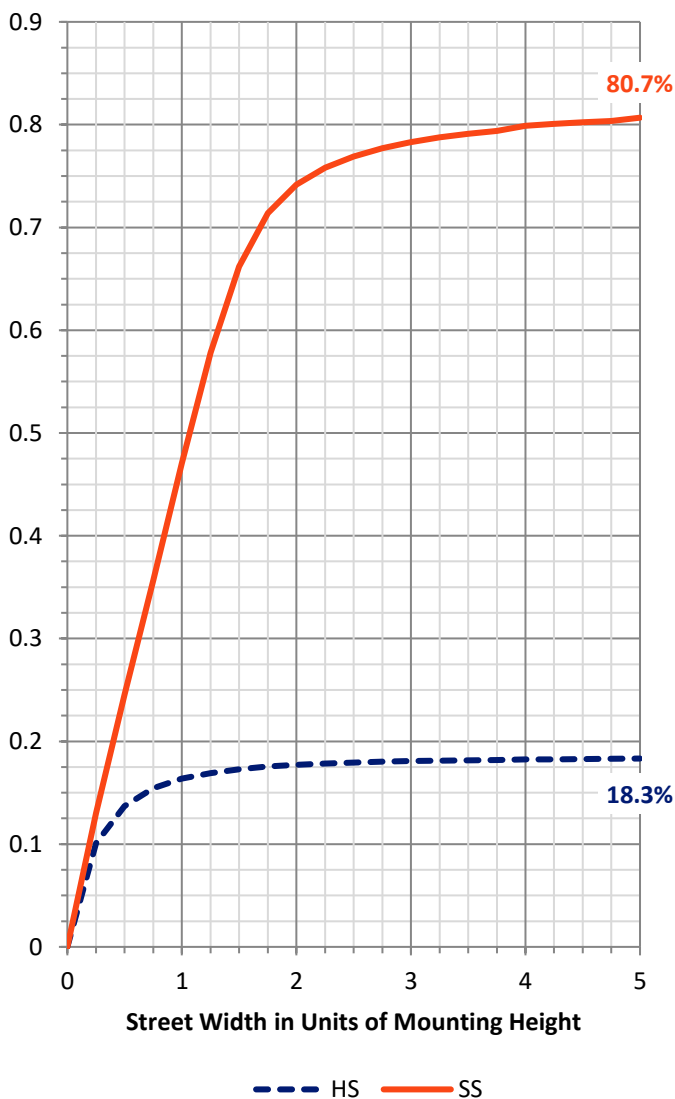
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6175.1	0.0	6175.1
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	27144.9	0.0	27144.9
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	33320.0	0.0	33320.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	671.9	2.0
10°-20°	1611.5	4.8
20°-30°	2164.6	6.5
30°-40°	2847.5	8.5
40°-50°	4142.4	12.4
50°-60°	6470.8	19.4
60°-70°	8105.8	24.3
70°-80°	6182.9	18.6
80°-90°	1122.7	3.4
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°	33320.0	100.0
0°-180°	33320.0	100.0

**Coefficient of Utilization**

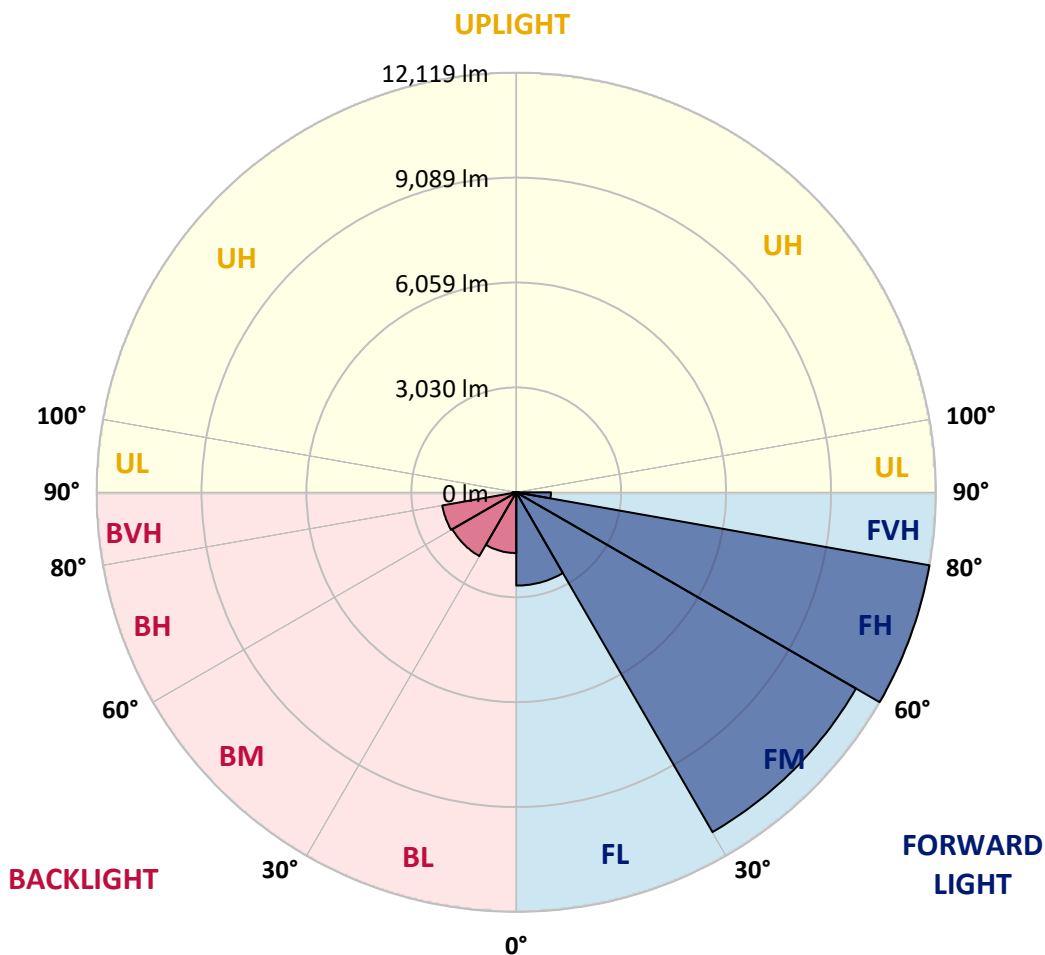


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2694.4	8.1			
FM (30°-60°)	11330.5	34.0			
FH (60°-80°)	12118.8	36.4			G5
FVH (80°-90°)	1001.2	3.0			G5
BL (0°-30°)	1753.6	5.3	B3/2500		
BM (30°-60°)	2130.2	6.4	B2/2500		
BH (60°-80°)	2169.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	121.5	0.4			G2/225
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°	65°	66°	75°	85°
0°	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0
2.5°	7491.5	7480.0	7514.5	7550.1	7563.9	7587.0	7621.5	7641.0	7639.9	7643.3	7631.8
5°	6994.5	6979.5	7048.6	7104.9	7213.1	7335.0	7483.4	7589.3	7591.6	7651.4	7667.5
7.5°	6524.0	6513.6	6593.0	6683.9	6809.3	6995.6	7236.1	7463.9	7477.7	7639.9	7696.2
10°	6146.6	6144.3	6221.4	6320.3	6466.5	6674.7	6950.8	7284.4	7305.1	7584.6	7700.8
12.5°	5852.1	5856.7	5923.5	6036.2	6190.4	6407.8	6706.9	7083.1	7116.4	7497.2	7674.4
15°	5634.7	5653.1	5707.2	5821.1	5972.9	6193.8	6501.0	6896.7	6947.3	7399.4	7659.4
17.5°	5510.5	5531.2	5569.1	5663.5	5806.1	6018.9	6310.0	6743.7	6789.7	7324.7	7660.6
20°	5473.6	5490.9	5512.8	5570.3	5691.1	5884.3	6159.3	6605.7	6655.1	7264.8	7672.1
22.5°	5546.1	5558.8	5561.1	5556.5	5630.1	5787.7	6050.0	6504.4	6557.3	7225.7	7680.1
25°	5701.4	5718.7	5706.0	5663.5	5639.3	5735.9	5993.6	6437.7	6490.6	7197.0	7664.0
27.5°	5935.0	5937.3	5926.9	5871.7	5757.8	5741.7	5976.4	6398.6	6449.2	7163.6	7630.7
30°	6252.5	6267.4	6249.0	6174.2	5987.9	5833.7	5997.1	6360.6	6406.6	7121.0	7576.6
32.5°	6624.1	6660.9	6659.7	6581.5	6314.6	6039.6	6082.2	6337.6	6373.3	7076.2	7511.0
35°	7009.4	7060.1	7154.4	7121.0	6790.9	6365.2	6245.6	6374.4	6398.6	7070.4	7465.0
37.5°	7409.8	7460.4	7654.8	7744.6	7358.0	6831.1	6503.3	6504.4	6515.9	7140.6	7461.6
40°	7828.5	7882.6	8174.8	8408.3	8093.1	7421.3	6918.6	6775.9	6763.3	7313.2	7529.4
42.5°	8415.2	8463.6	8814.4	9112.4	8908.8	8177.1	7492.6	7194.7	7168.2	7651.4	7746.9
45°	9157.3	9198.7	9571.4	9890.1	9785.4	9039.9	8213.9	7771.0	7766.4	8215.1	8187.5
47.5°	10039.6	10071.8	10406.6	10714.9	10752.9	10032.7	9120.4	8660.3	8585.5	8988.1	8869.7
50°	10958.8	10994.5	11222.2	11553.6	11835.4	11361.4	10287.0	9749.7	9649.6	10008.6	9836.0
52.5°	11567.4	11614.5	11812.4	12232.3	13052.5	12817.9	11666.3	11070.4	10918.5	11245.3	11113.0
55°	11295.9	11401.7	11704.3	12377.3	14025.8	15042.8	13367.8	12610.8	12439.4	12710.9	12632.6
57.5°	10061.5	10206.4	10619.4	11658.2	14162.7	17003.1	15940.1	14425.0	14304.2	14226.0	14261.6
60°	7805.5	7944.7	8456.7	9810.7	13209.0	18434.2	19811.2	16661.4	16486.5	15746.8	15779.0
62.5°	5524.3	5454.1	5805.0	6795.5	10733.3	18602.1	24216.1	19652.4	19077.2	17352.8	17211.3
65°	4212.8	4196.7	4354.3	4669.5	6501.0	16592.4	26840.2	24679.7	23781.3	19241.7	18908.1
67.5°	3461.6	3432.8	3588.1	4047.1	4186.3	10704.6	26897.7	30512.3	29629.9	21593.2	20870.7
70°	2846.1	2813.9	2958.9	3551.3	3868.8	5428.8	22637.8	33927.9	33880.7	24570.4	22352.5
71°	2551.6	2528.6	2702.3	3360.3	3801.0	4524.6	19545.5	33937.1	34078.6	25578.2	22265.0
72.5°	2077.6	2085.7	2269.8	2991.1	3750.3	3995.4	14365.2	32355.3	32654.4	26538.8	21470.1
75°	1380.5	1387.4	1629.0	2300.8	3636.4	3909.1	7895.3	27149.7	27699.6	25963.6	19591.5
77.5°	927.2	924.9	1089.4	1578.4	3168.2	3909.1	4629.2	20305.9	20909.8	20659.1	15103.7
80°	638.5	633.9	750.1	1089.4	2398.6	3956.3	3578.9	14230.6	14413.5	11156.7	6138.6
82.5°	391.1	394.6	490.1	769.6	1632.4	3560.5	3378.8	7759.5	7560.5	3129.1	1533.5
85°	224.3	223.2	312.9	521.1	1048.0	3004.9	3294.8	3339.6	3063.5	942.2	554.5
87.5°	80.5	86.3	168.0	288.8	600.5	2092.6	2795.5	1737.1	1565.7	425.7	250.8
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°	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0
2.5°	7623.8	7630.7	7622.6	7576.6	7537.5	7474.2	7438.5	7389.1	7374.1	7367.2	7385.6
5°	7652.5	7654.8	7587.0	7466.2	7330.4	7170.5	7055.5	6914.0	6847.2	6818.5	6836.9
7.5°	7679.0	7668.6	7520.2	7289.0	7038.2	6759.8	6512.5	6285.8	6153.5	6099.5	6104.1
10°	7682.4	7638.7	7400.6	7042.8	6654.0	6245.6	5865.9	5516.2	5295.3	5151.5	5195.2
12.5°	7646.8	7573.1	7224.6	6724.1	6184.6	5627.8	5114.7	4590.1	4274.9	4128.8	4133.4
15°	7619.2	7485.7	7008.3	6349.1	5624.4	4886.9	4186.3	3569.7	3233.8	3084.2	3014.1
17.5°	7596.2	7391.4	6757.5	5926.9	4962.9	4027.6	3185.5	2635.6	2451.5	2407.8	2389.4
20°	7563.9	7291.3	6478.0	5438.0	4209.3	3065.8	2326.1	2054.6	2055.8	2106.4	2113.3
22.5°	7519.1	7177.4	6180.0	4889.2	3400.6	2232.9	1823.4	1745.2	1824.5	1921.2	1938.4
25°	7452.4	7042.8	5848.7	4283.0	2593.0	1716.4	1557.7	1554.2	1650.8	1752.1	1767.0
27.5°	7358.0	6866.8	5480.6	3631.8	1910.8	1458.7	1395.4	1419.6	1490.9	1564.6	1570.3
30°	7231.5	6662.0	5074.5	2945.0	1497.8	1298.8	1291.9	1313.8	1357.5	1409.3	1413.9
32.5°	7092.3	6453.8	4640.8	2280.1	1282.7	1212.5	1219.4	1229.8	1250.5	1271.2	1275.8
35°	6965.7	6241.0	4196.7	1732.5	1180.3	1156.2	1151.6	1149.3	1151.6	1144.7	1145.8
37.5°	6884.1	6065.0	3734.2	1379.3	1121.6	1106.7	1092.9	1075.6	1056.1	1044.6	1046.9
40°	6854.1	5933.8	3266.0	1191.8	1073.3	1063.0	1036.5	999.7	976.7	969.8	969.8
42.5°	6934.7	5865.9	2813.9	1097.5	1033.1	1015.8	972.1	929.5	912.3	911.1	910.0
45°	7180.9	5893.5	2383.6	1045.7	996.3	962.9	905.4	869.7	858.2	860.5	859.4
47.5°	7622.6	6067.3	2015.5	1011.2	959.4	915.7	851.3	822.5	808.7	808.7	809.9
50°	8373.8	6473.4	1722.2	982.4	928.4	872.0	812.2	776.5	758.1	757.0	757.0
52.5°	9467.9	7200.4	1539.2	958.3	893.9	832.9	773.1	728.2	706.4	701.7	699.4
55°	10839.2	8242.7	1488.6	942.2	847.9	790.3	725.9	681.0	656.9	646.5	645.4
57.5°	12372.7	9510.4	1588.7	922.6	800.7	739.7	674.1	631.6	606.3	593.6	592.5
60°	13924.6	10894.4	1997.1	895.0	761.6	684.5	621.2	582.1	556.8	543.0	540.7
62.5°	15478.8	12353.1	2831.2	892.7	734.0	631.6	567.2	533.8	509.6	494.7	491.2
65°	17232.0	13949.9	3779.1	953.7	724.8	583.3	511.9	485.5	464.8	451.0	449.8
67.5°	19245.2	15752.6	3688.2	1079.1	755.8	539.5	460.2	439.5	424.5	413.0	411.8
70°	20189.7	15470.7	2292.8	1167.7	799.5	497.0	410.7	395.7	384.2	376.2	372.7
71°	19793.9	14689.6	1922.3	1157.3	794.9	478.6	391.1	379.6	368.1	361.2	357.8
72.5°	18714.9	13396.5	1603.7	1076.8	743.2	445.2	365.8	354.3	344.0	335.9	333.6
75°	16793.7	11964.3	1283.9	860.5	592.5	376.2	321.0	308.3	300.3	295.7	291.1
77.5°	12345.0	8538.3	992.8	679.9	436.0	307.2	273.8	264.6	256.5	249.6	246.2
80°	4729.3	3307.4	668.4	507.3	319.8	242.7	220.9	216.3	208.2	203.6	203.6
82.5°	1273.5	988.2	356.6	307.2	214.0	177.2	169.1	166.8	159.9	150.7	151.9
85°	515.4	436.0	200.2	169.1	131.1	104.7	113.9	115.0	107.0	95.5	96.6
87.5°	226.6	185.2	111.6	74.8	57.5	40.3	51.8	51.8	47.2	39.1	35.7
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)