

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: P319992

Luminaire Tested: **GAN-SA8A-740-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35490 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

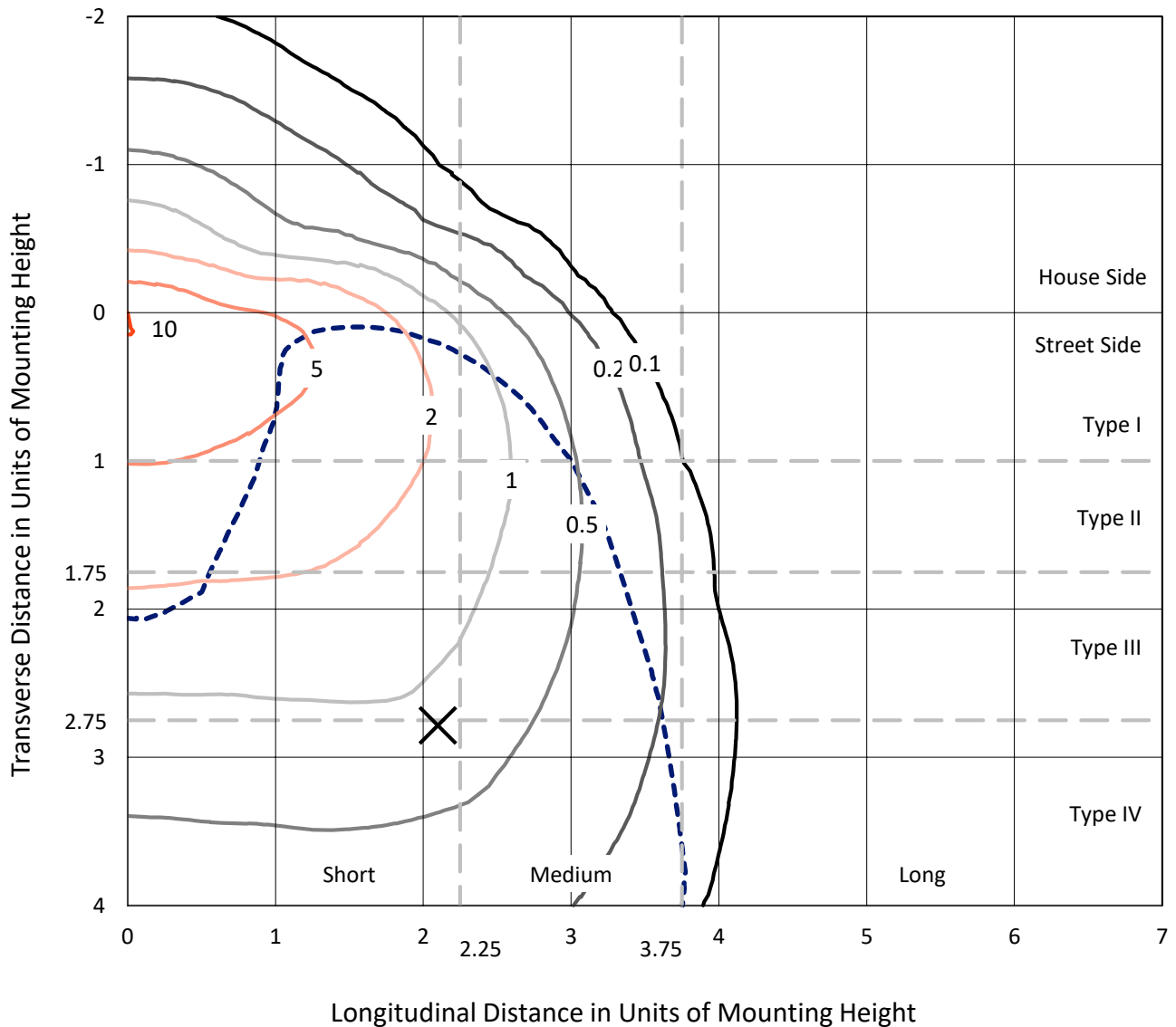
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

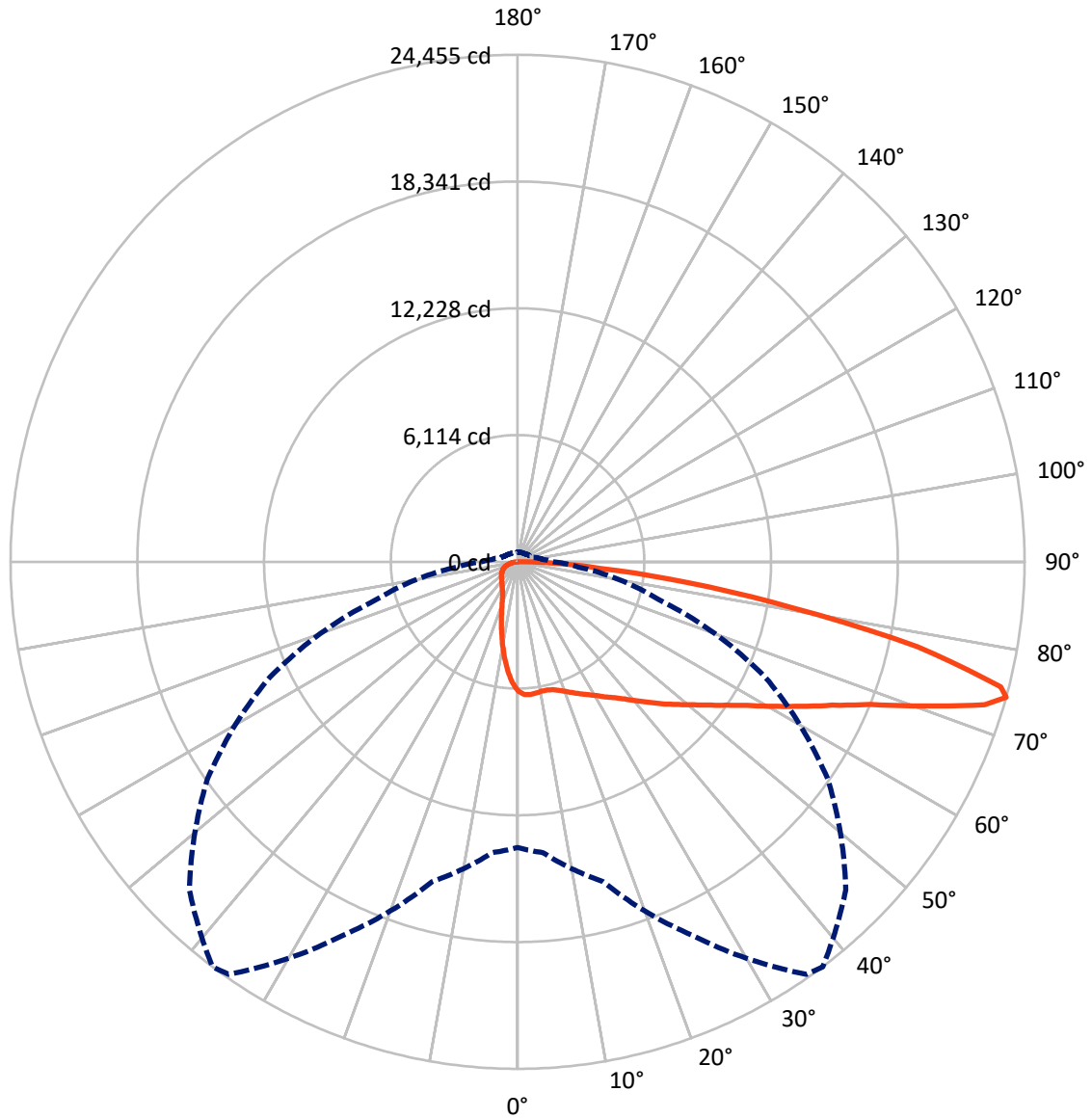
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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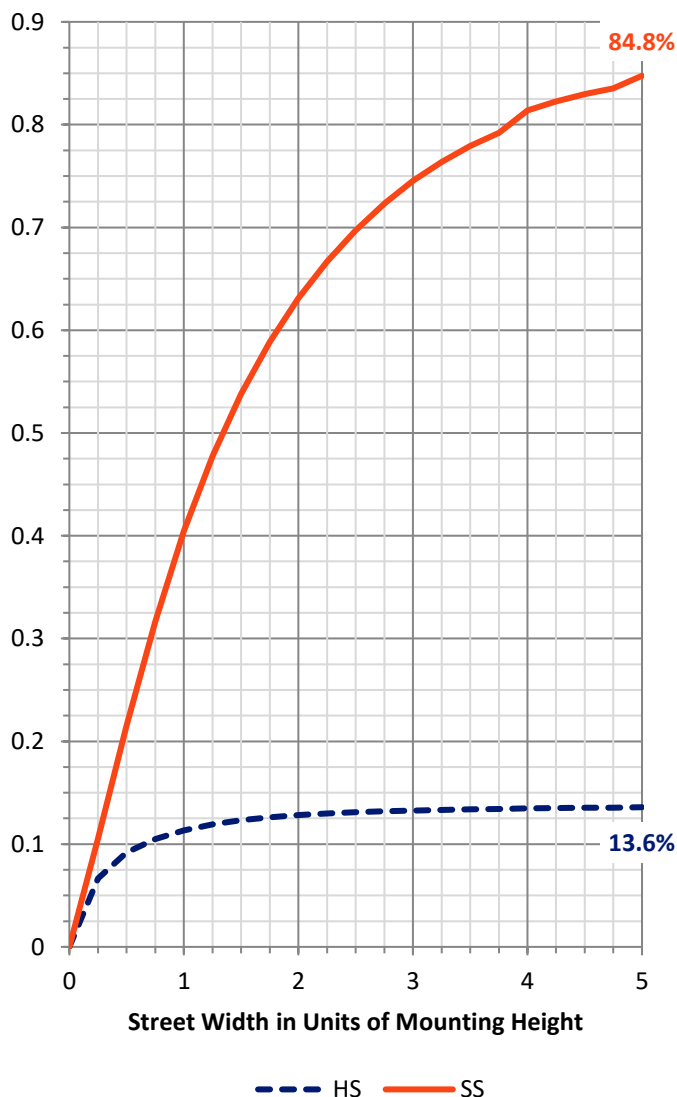
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4883.2	0.0	4883.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	30606.8	0.0	30606.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	35490.0	0.0	35490.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.7	1.6
10°-20°	1411.5	4.0
20°-30°	2174.8	6.1
30°-40°	3162.5	8.9
40°-50°	4654.7	13.1
50°-60°	6536.7	18.4
60°-70°	8273.5	23.3
70°-80°	7285.1	20.5
80°-90°	1440.4	4.1
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°	35490.0	100.0
0°-180°	35490.0	100.0

**Coefficient of Utilization**

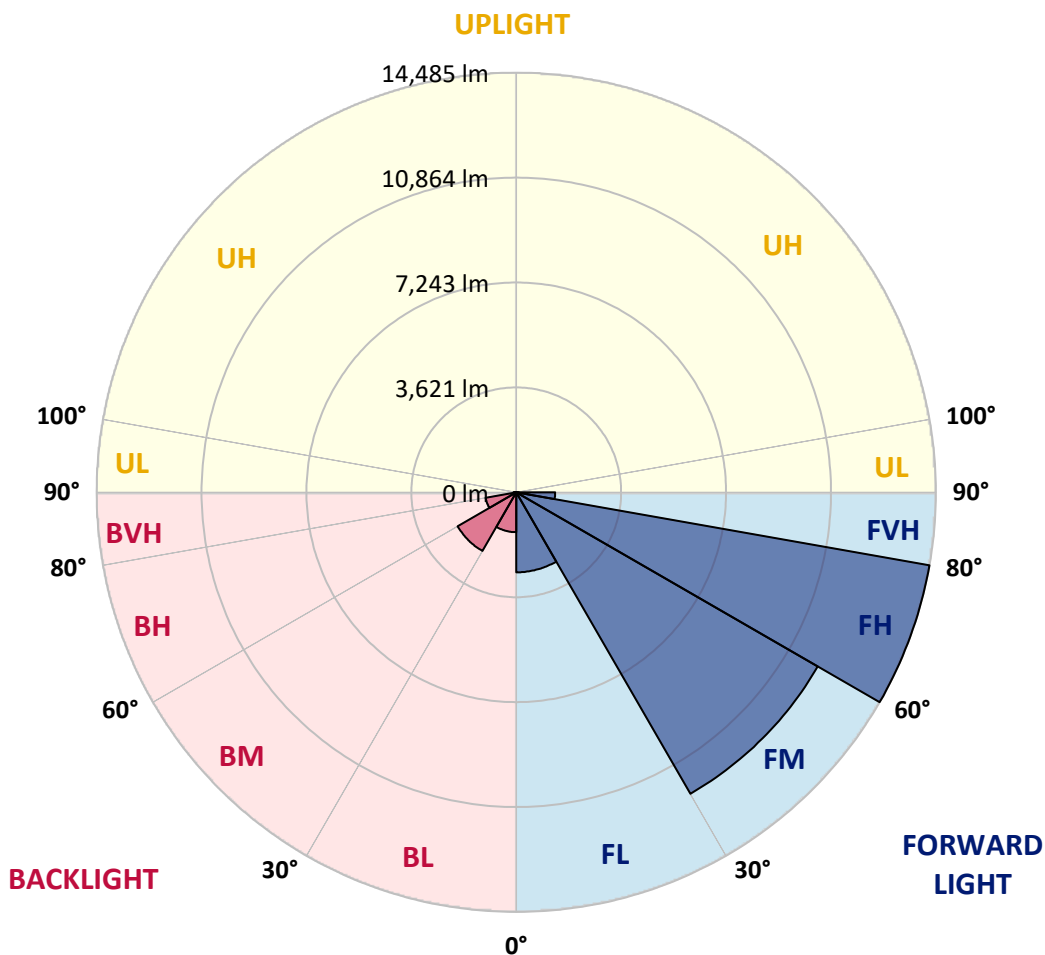


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2761.5	7.8			
FM (30°-60°)	12017.2	33.9			
FH (60°-80°)	14485.2	40.8			G5
FVH (80°-90°)	1342.9	3.8			G5
BL (0°-30°)	1375.5	3.9	B3/2500		
BM (30°-60°)	2336.8	6.6	B2/2500		
BH (60°-80°)	1073.4	3.0	B3/2500		G3/2500
BVH (80°-90°)	97.5	0.3			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°	37°	45°	55°	65°	75°	85°
0°	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2
2.5°	6467.0	6468.2	6467.0	6457.0	6433.2	6413.2	6397.0	6373.2	6320.7	6280.7	6220.7
5°	6528.2	6520.7	6515.7	6497.0	6459.5	6437.0	6405.7	6360.7	6274.5	6194.4	6096.9
7.5°	6499.5	6490.7	6479.5	6457.0	6414.5	6395.7	6352.0	6293.2	6189.4	6084.4	5944.4
10°	6410.7	6408.2	6403.2	6398.2	6362.0	6347.0	6307.0	6244.4	6141.9	6014.4	5850.7
12.5°	6312.0	6318.2	6338.2	6364.5	6348.2	6340.7	6315.7	6273.2	6168.2	6030.7	5833.2
15°	6249.5	6267.0	6320.7	6389.5	6403.2	6400.7	6394.5	6367.0	6255.7	6103.2	5873.2
17.5°	6228.2	6257.0	6359.5	6473.2	6513.2	6522.0	6524.5	6477.0	6353.2	6191.9	5914.4
20°	6267.0	6303.2	6453.2	6609.5	6673.2	6678.2	6667.0	6584.5	6445.7	6268.2	5936.9
22.5°	6384.5	6417.0	6604.5	6780.8	6853.3	6860.8	6827.0	6702.0	6543.2	6358.2	5968.2
25°	6610.7	6650.7	6838.3	7014.5	7052.0	7053.3	7004.5	6849.5	6670.7	6484.5	6035.7
27.5°	6905.8	6945.8	7114.5	7287.1	7267.1	7255.8	7189.6	7034.5	6837.0	6658.2	6155.7
30°	7234.6	7278.3	7438.3	7560.8	7513.3	7490.8	7437.1	7237.1	7068.3	6895.8	6339.5
32.5°	7574.6	7614.6	7754.6	7838.4	7778.4	7768.4	7687.1	7504.6	7369.6	7258.3	6637.0
35°	7923.4	7952.1	8089.7	8137.2	8057.2	8054.7	8032.1	7864.6	7779.6	7832.1	7069.5
37.5°	8279.7	8287.2	8404.7	8407.2	8383.4	8393.4	8417.2	8312.2	8335.9	8499.7	7632.1
40°	8597.2	8617.2	8702.2	8728.5	8769.7	8804.7	8923.5	8854.7	9038.5	9328.5	8332.2
42.5°	8832.2	8871.0	9007.3	9074.8	9208.5	9263.5	9431.1	9494.8	9864.9	10299.9	9164.8
45°	9031.0	9091.0	9309.8	9448.6	9674.8	9771.1	10011.1	10224.9	10798.7	11353.8	10041.1
47.5°	9246.0	9322.3	9596.1	9861.1	10168.6	10277.4	10713.7	11033.7	11795.1	12413.9	10867.5
50°	9562.3	9621.1	9888.6	10304.9	10688.7	10828.7	11432.5	11891.3	12807.7	13424.0	11583.8
52.5°	10003.6	9981.1	10207.4	10791.2	11306.3	11478.8	12200.1	12803.9	13834.0	14337.9	12188.9
55°	10447.4	10409.9	10568.7	11300.0	12026.3	12207.6	13045.2	13720.3	14810.4	15160.4	12652.7
57.5°	10941.2	10870.0	11003.7	11873.8	12846.4	13062.7	13991.6	14694.1	15770.5	15825.5	12947.7
60°	11450.0	11353.8	11503.8	12585.2	13887.8	14142.8	15099.2	15644.3	16675.6	16358.1	13042.7
62.5°	11895.1	11827.6	12058.9	13379.0	15061.7	15341.7	16186.8	16654.4	17568.2	16579.4	12700.2
65°	12283.9	12295.1	12695.2	14271.6	16370.6	16669.4	17434.5	17899.5	18270.8	16448.1	11898.8
67.5°	12747.7	12811.4	13494.0	15446.7	18018.3	18345.8	19249.7	19257.2	18663.3	15678.0	10321.2
70°	13424.0	13555.3	14592.9	17076.9	20361.0	20811.1	21508.7	20054.7	18112.0	13590.3	8120.9
72.5°	14024.1	14269.1	15761.8	18942.1	23216.4	23557.6	22830.1	19594.7	15808.0	10184.9	5059.3
74°	13780.3	14084.1	15974.3	19861.0	24291.5	24455.2	22383.8	18252.0	13180.2	7053.3	2940.3
75°	13255.2	13585.3	15664.3	19852.2	24155.2	24063.9	21306.1	16718.1	10855.0	4810.5	1956.5
77.5°	10697.4	11046.2	13199.0	17014.4	19806.0	19719.7	16366.8	11215.0	4754.3	1577.7	993.9
80°	6219.4	6485.7	8193.4	10805.0	13355.2	13511.5	10763.7	5549.4	1870.2	886.3	673.8
82.5°	2762.8	2946.6	3957.9	5515.6	8059.7	8260.9	5636.9	2907.8	1155.1	538.8	405.0
85°	1812.7	1949.0	2402.8	2626.5	3837.9	3975.4	2759.1	2264.0	762.6	296.3	297.5
87.5°	1303.9	1435.2	1785.2	1558.9	1761.4	1667.7	1501.4	2095.2	306.3	168.8	100.0
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°	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2	6253.2
2.5°	6194.4	6174.4	6129.4	6044.4	5996.9	5956.9	5890.7	5851.9	5834.4	5833.2	5840.7
5°	6040.7	5994.4	5878.2	5735.6	5621.9	5518.1	5389.4	5311.8	5256.8	5224.3	5233.1
7.5°	5861.9	5789.4	5606.9	5379.4	5196.8	4995.6	4796.8	4678.0	4585.5	4516.8	4529.3
10°	5739.4	5639.4	5373.1	5045.6	4741.8	4449.2	4175.5	4011.7	3881.7	3781.7	3789.2
12.5°	5698.1	5563.1	5194.3	4756.8	4330.5	3930.4	3572.9	3321.6	3187.9	3074.1	3082.8
15°	5704.4	5523.1	5044.3	4496.8	3960.4	3456.6	3022.8	2729.1	2547.8	2469.0	2470.3
17.5°	5709.4	5476.9	4886.8	4218.0	3594.2	3014.1	2542.8	2245.3	2074.0	2001.5	2002.7
20°	5693.1	5401.9	4691.8	3897.9	3211.6	2607.8	2151.5	1899.0	1768.9	1712.7	1712.7
22.5°	5671.9	5313.1	4471.8	3576.7	2834.1	2255.3	1871.5	1678.9	1603.9	1566.4	1565.2
25°	5681.9	5246.8	4246.7	3246.6	2486.5	1974.0	1685.2	1557.7	1507.7	1483.9	1482.7
27.5°	5735.6	5215.6	4039.2	2917.8	2182.7	1762.7	1560.2	1470.2	1437.7	1422.7	1422.7
30°	5833.2	5215.6	3822.9	2637.8	1930.2	1606.4	1463.9	1402.7	1380.2	1370.2	1370.2
32.5°	6003.2	5244.3	3614.2	2360.3	1728.9	1483.9	1383.9	1342.7	1325.1	1320.1	1320.1
35°	6295.7	5341.8	3410.4	2097.7	1566.4	1383.9	1307.6	1283.9	1271.4	1270.1	1273.9
37.5°	6707.0	5540.6	3219.1	1904.0	1451.4	1302.6	1243.9	1225.1	1217.6	1223.9	1228.9
40°	7224.6	5810.7	3045.3	1728.9	1363.9	1237.6	1185.1	1172.6	1168.9	1177.6	1185.1
42.5°	7849.6	6175.7	2902.8	1602.7	1296.4	1182.6	1135.1	1120.1	1116.4	1126.4	1136.4
45°	8526.0	6568.2	2802.8	1508.9	1243.9	1141.4	1091.4	1075.1	1067.6	1072.6	1083.9
47.5°	9141.0	6939.5	2762.8	1442.7	1193.9	1106.4	1052.6	1032.6	1020.1	1017.6	1026.4
50°	9659.8	7215.8	2781.6	1402.7	1153.9	1067.6	1015.1	992.6	973.9	962.6	968.9
52.5°	10037.4	7389.6	2799.1	1385.2	1122.6	1025.1	973.9	952.6	927.6	908.9	908.9
55°	10311.2	7429.6	2760.3	1371.4	1098.9	978.9	927.6	907.6	882.6	861.3	858.8
57.5°	10418.7	7317.1	2616.5	1351.4	1082.6	935.1	878.8	863.8	842.6	817.6	816.3
60°	10273.7	6969.5	2339.0	1308.9	1061.4	898.9	830.1	820.1	810.1	786.3	785.1
62.5°	9691.1	6206.9	1980.2	1222.6	1018.9	860.1	785.1	790.1	791.3	775.1	772.6
65°	8634.7	5159.3	1630.2	1110.1	955.1	813.8	738.8	762.6	776.3	773.8	770.1
67.5°	7099.5	4015.4	1381.4	991.4	871.3	750.1	688.8	716.3	727.6	736.3	733.8
70°	5269.3	2831.6	1142.6	866.3	770.1	675.1	623.8	637.6	630.1	640.1	643.8
72.5°	2937.8	1698.9	931.4	741.3	665.1	587.6	551.3	548.8	532.6	532.6	532.6
74°	1762.7	1246.4	818.8	663.8	601.3	530.1	498.8	487.6	472.6	473.8	472.6
75°	1417.7	1071.4	751.3	612.6	556.3	496.3	465.1	450.1	438.8	438.8	437.5
77.5°	895.1	813.8	605.1	487.6	445.0	408.8	387.5	367.5	367.5	366.3	365.0
80°	676.3	647.6	471.3	368.8	341.3	313.8	300.0	291.3	291.3	295.0	293.8
82.5°	463.8	487.6	331.3	257.5	243.8	223.8	221.3	222.5	218.8	213.8	212.5
85°	338.8	366.3	223.8	162.5	148.8	136.3	146.3	151.3	145.0	133.8	128.8
87.5°	130.0	240.0	120.0	67.5	62.5	53.8	62.5	65.0	70.0	55.0	56.3
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)