

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: P319713

Luminaire Tested: **GAN-SA9A-750-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319713  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-750-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 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: 41665 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

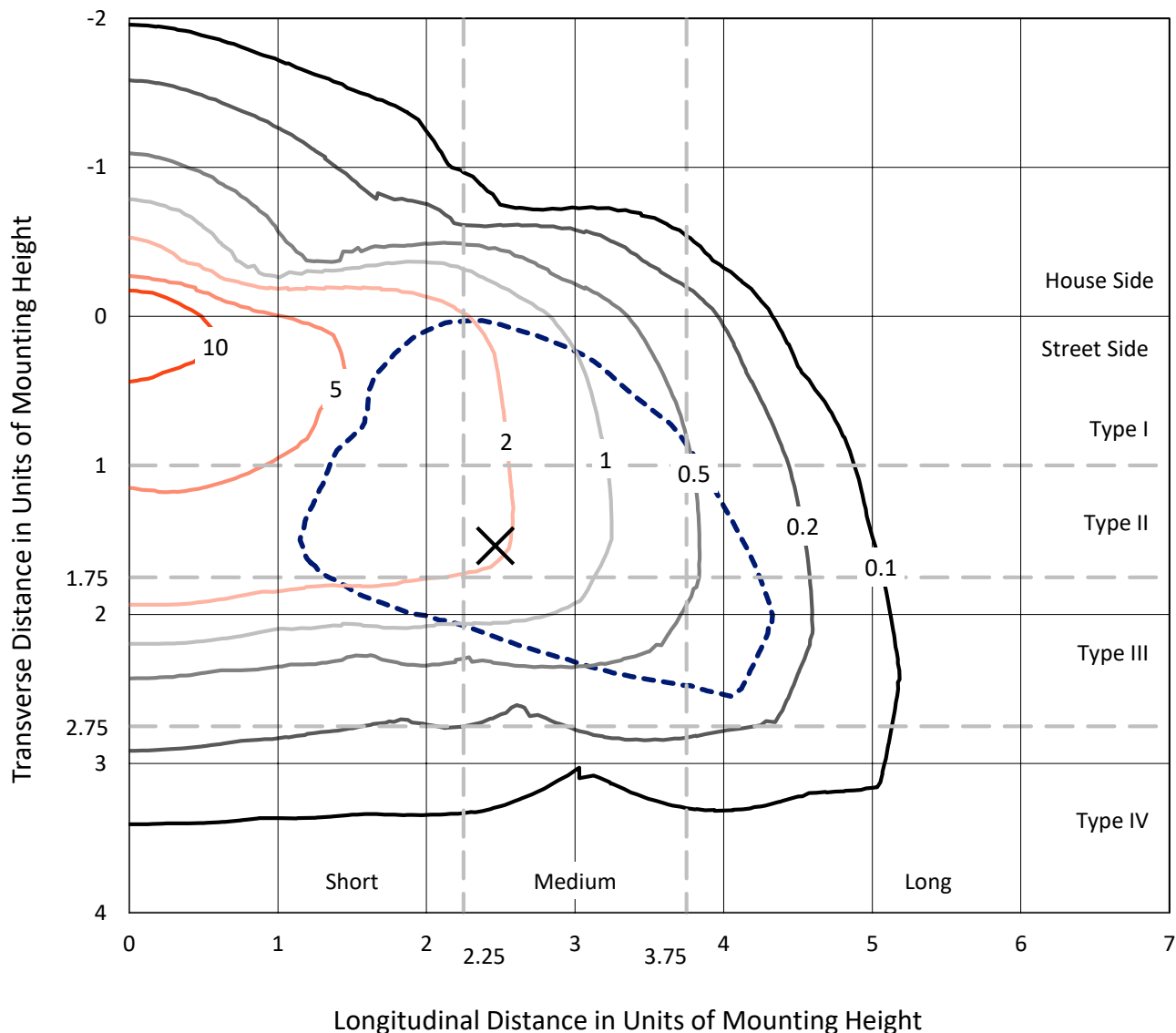
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

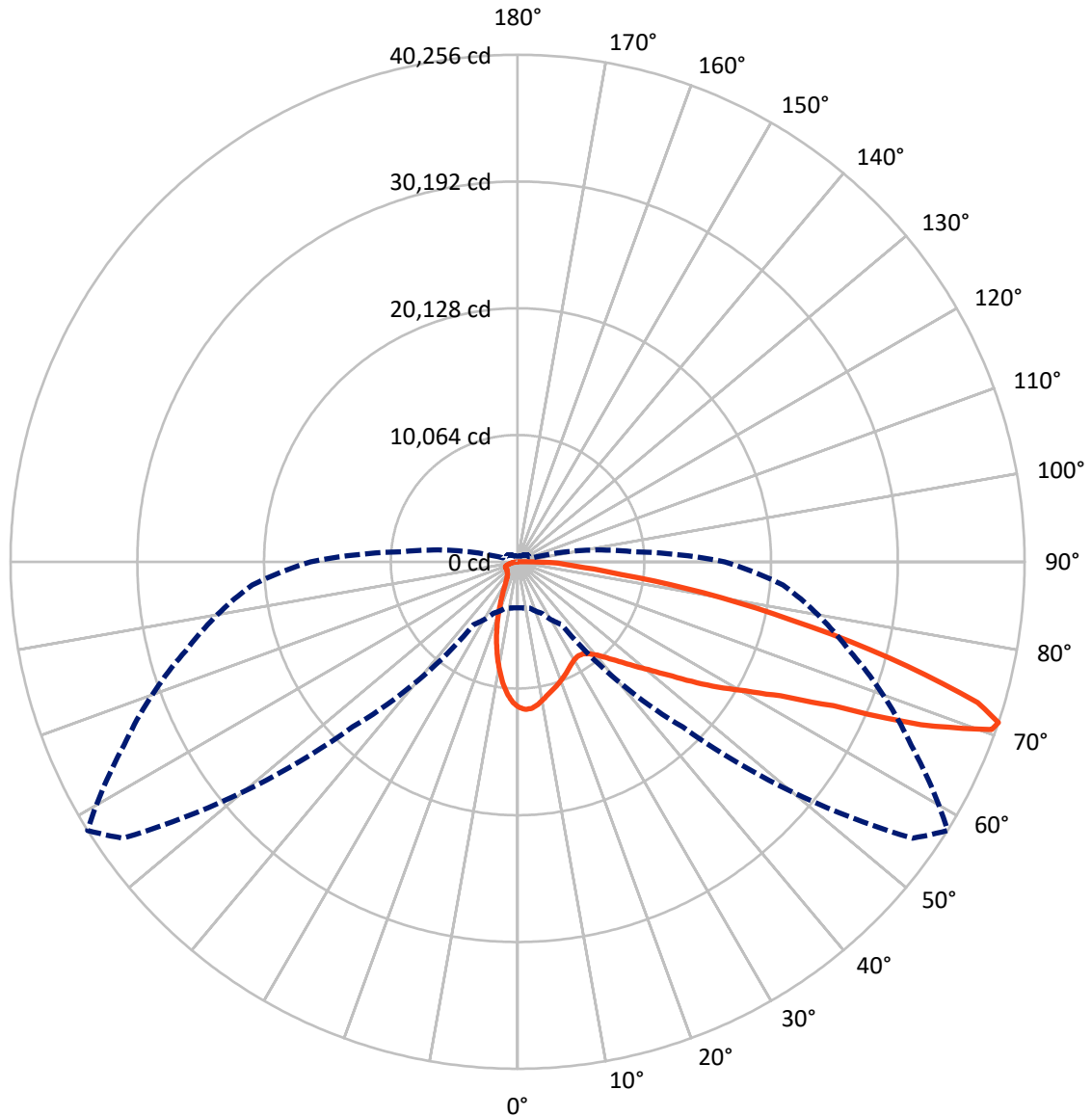
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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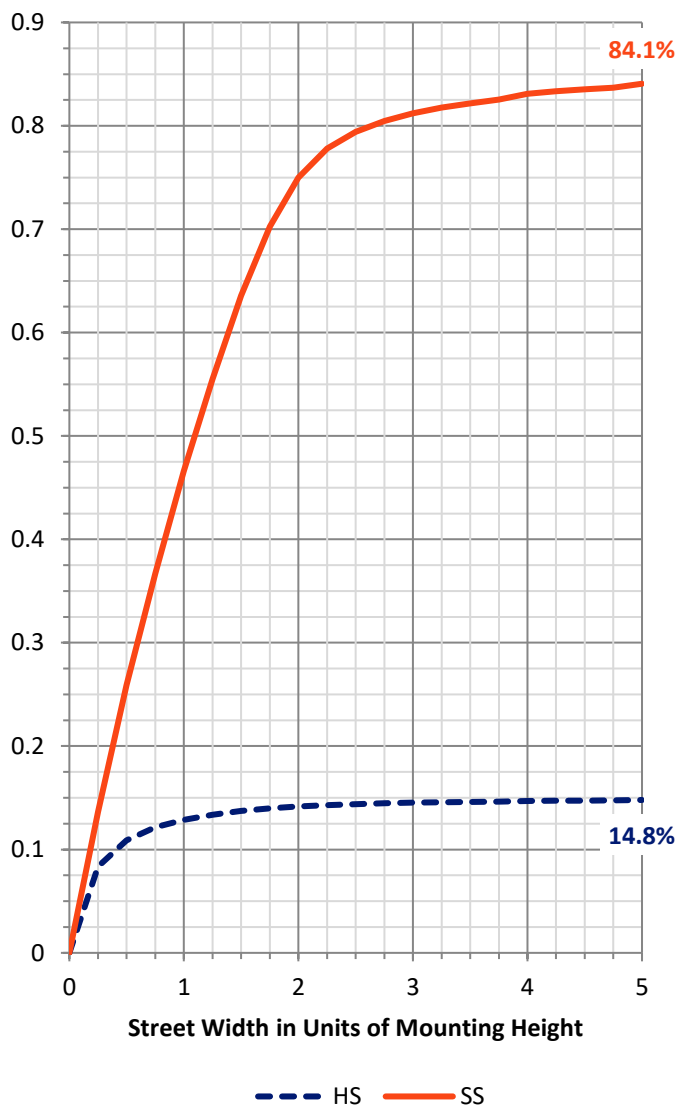
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6229.2	0.0	6229.2
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	35435.8	0.0	35435.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	41665.0	0.0	41665.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	995.9	2.4
10°-20°	2214.5	5.3
20°-30°	2814.4	6.8
30°-40°	3585.0	8.6
40°-50°	5083.7	12.2
50°-60°	7867.2	18.9
60°-70°	10710.2	25.7
70°-80°	7144.9	17.1
80°-90°	1249.2	3.0
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°	41665.0	100.0
0°-180°	41665.0	100.0

**Coefficient of Utilization**

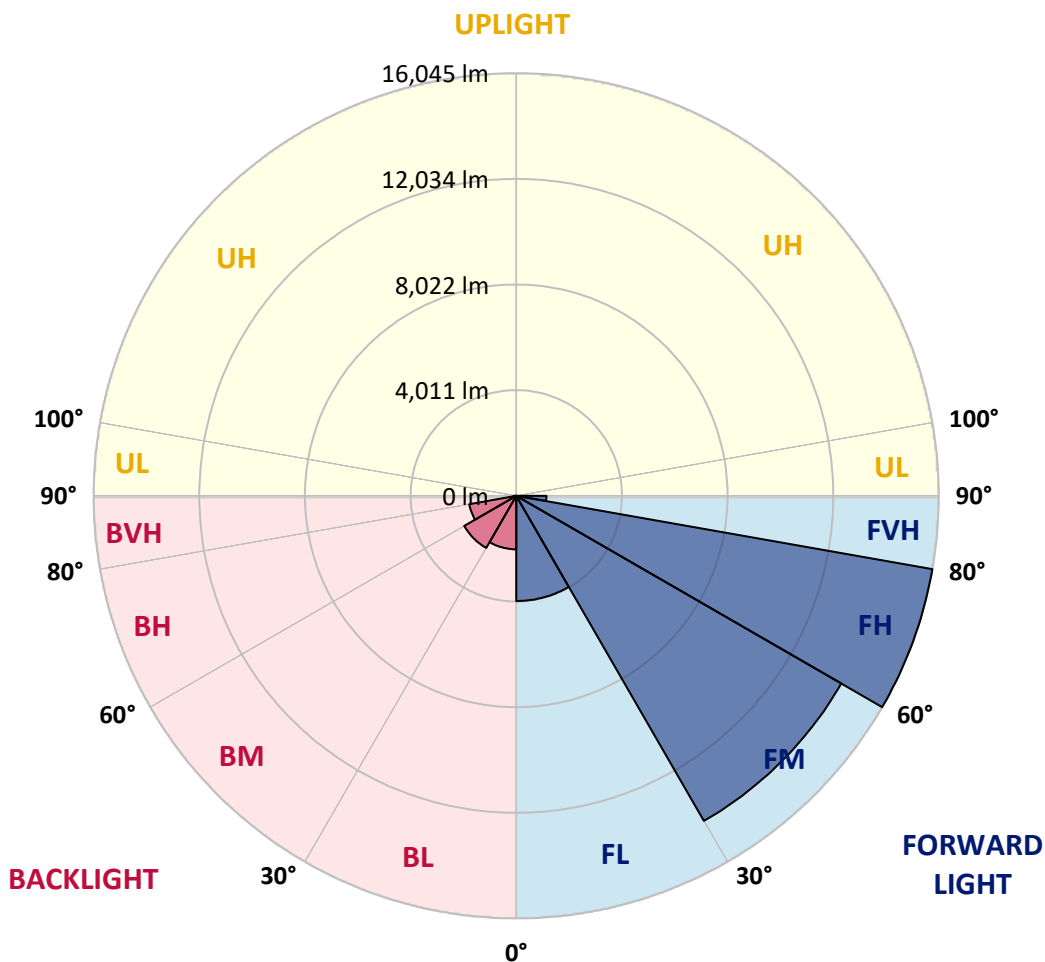


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3994.3	9.6			
FM (30°-60°)	14251.4	34.2			
FH (60°-80°)	16044.7	38.5			G5
FVH (80°-90°)	1145.4	2.7			G5
BL (0°-30°)	2030.5	4.9	B3/2500		
BM (30°-60°)	2284.4	5.5	B2/2500		
BH (60°-80°)	1810.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	103.8	0.2			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°	58°	65°	75°	85°
0°	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0
2.5°	11850.2	11834.3	11840.1	11828.5	11800.9	11773.3	11732.7	11739.9	11683.3	11599.1	11494.6
5°	11626.7	11620.9	11664.5	11689.1	11709.4	11693.5	11681.9	11696.4	11613.7	11497.5	11316.1
7.5°	11157.9	11094.1	11149.2	11232.0	11310.3	11369.8	11448.2	11458.4	11406.1	11284.2	11046.2
10°	10491.8	10430.8	10512.1	10641.3	10798.0	10940.2	11098.4	11127.5	11137.6	11027.3	10738.5
12.5°	9800.9	9754.5	9835.8	10017.2	10277.0	10496.1	10748.7	10792.2	10882.2	10808.2	10454.0
15°	9182.7	9165.2	9263.9	9442.4	9741.4	10076.7	10441.0	10520.8	10673.2	10648.5	10232.0
17.5°	8648.6	8644.2	8719.7	8906.9	9237.8	9661.6	10134.7	10269.7	10496.1	10525.1	10049.1
20°	8250.9	8242.2	8294.4	8432.3	8773.4	9253.8	9803.8	9989.6	10316.2	10417.7	9860.4
22.5°	8037.5	8036.1	8037.5	8102.9	8381.5	8828.5	9481.6	9708.0	10140.5	10332.1	9651.4
25°	8001.3	7996.9	7965.0	7957.7	8115.9	8472.9	9162.3	9412.0	9973.6	10272.6	9452.6
27.5°	8095.6	8101.4	8059.3	7991.1	8023.0	8239.3	8885.1	9152.2	9840.1	10261.0	9314.7
30°	8291.5	8288.6	8252.3	8181.2	8118.8	8152.2	8687.7	8954.8	9750.1	10311.8	9220.4
32.5°	8507.8	8523.7	8516.5	8477.3	8384.4	8250.9	8628.2	8889.5	9724.0	10433.7	9179.8
35°	8767.6	8785.0	8837.2	8867.7	8758.9	8544.1	8756.0	8982.4	9799.5	10663.0	9245.1
37.5°	9014.3	9059.3	9205.9	9335.0	9242.2	9002.7	9095.6	9256.7	10033.1	11024.4	9420.7
40°	9298.8	9337.9	9577.4	9851.7	9837.2	9589.0	9642.7	9750.1	10445.3	11542.5	9738.5
42.5°	9578.9	9657.2	10004.1	10393.1	10504.8	10285.7	10371.3	10427.9	11025.9	12229.0	10292.9
45°	9951.9	10036.0	10517.9	10986.7	11247.9	11124.6	11261.0	11282.7	11755.9	13163.7	11098.4
47.5°	10516.4	10612.2	11173.9	11665.9	12065.0	12078.1	12303.0	12294.3	12667.3	14233.3	12112.9
50°	11396.0	11533.8	11993.9	12454.0	12938.7	13208.7	13509.1	13467.0	13760.2	15372.6	13281.2
52.5°	12548.3	12612.2	12953.2	13292.9	13895.2	14500.4	14931.4	14893.7	14999.6	16543.9	14607.8
55°	13742.8	13790.7	13931.5	14117.2	14927.1	15914.0	16825.4	16765.9	16497.4	17760.1	15918.3
57.5°	14816.8	14914.0	15011.3	15088.2	15966.2	17391.5	18763.0	18767.3	18122.9	19072.1	17272.4
60°	14983.7	15069.3	15712.3	16318.9	17744.1	19362.4	20836.9	20793.4	19805.0	20495.9	18781.8
62.5°	13245.0	13438.0	14512.0	16125.9	19456.7	22967.5	23482.7	23429.0	21816.6	22250.6	20539.4
65°	9491.8	9710.9	11007.0	13432.2	18626.5	26939.8	28257.7	27534.9	24559.6	24408.7	22597.4
67.5°	5475.9	5528.2	6089.8	8037.5	14182.5	27147.4	35542.0	34530.4	28819.3	26857.1	23604.7
70°	4049.2	4047.8	4181.3	4946.2	7674.7	22156.2	39006.3	39913.4	33304.0	27662.6	22180.9
71°	3661.7	3666.1	3815.6	4502.1	6078.2	18545.3	38270.5	40255.9	34485.4	27264.9	21150.4
72.5°	3132.0	3146.5	3354.1	4037.6	5113.1	12789.2	35100.8	38200.8	35045.6	26283.8	19538.0
75°	2375.9	2409.2	2696.6	3403.4	4673.3	6486.1	25761.4	30504.3	31132.8	23192.5	14517.8
77.5°	1695.2	1732.9	2058.0	2862.1	4442.6	4888.1	17252.1	22250.6	22910.9	14863.2	6548.5
80°	1071.1	1116.1	1361.4	2277.2	4174.1	4641.4	10841.5	14956.1	12493.2	4756.1	1666.1
82.5°	628.4	663.3	844.7	1487.6	3409.2	4470.1	6378.7	8290.1	4862.0	1436.8	757.6
85°	364.3	380.3	526.8	947.7	2476.0	4219.1	4686.4	4634.1	2110.3	702.5	358.5
87.5°	169.8	188.7	312.0	494.9	1374.4	3058.0	3703.8	3200.2	1312.0	329.5	168.4
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°	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0	11544.0
2.5°	11443.8	11419.2	11316.1	11224.7	11128.9	11004.1	10866.2	10848.8	10764.6	10780.6	10751.6
5°	11217.4	11155.0	10906.9	10681.9	10416.3	10178.3	9919.9	9800.9	9629.7	9618.1	9574.5
7.5°	10893.8	10777.7	10393.1	9966.4	9539.7	9133.3	8731.3	8467.1	8197.2	8082.5	8072.4
10°	10529.5	10332.1	9766.1	9134.8	8519.4	7925.8	7351.1	6925.8	6542.7	6361.2	6354.0
12.5°	10184.1	9892.4	9115.9	8256.7	7414.9	6645.7	5857.6	5298.9	4818.5	4657.4	4589.1
15°	9890.9	9480.2	8483.1	7384.4	6362.7	5294.5	4397.6	3809.8	3365.7	3211.8	3182.8
17.5°	9606.4	9078.2	7834.4	6503.5	5268.4	4094.2	3195.9	2759.0	2522.4	2460.0	2458.6
20°	9323.4	8664.5	7156.6	5602.2	4210.3	3062.3	2457.1	2261.2	2181.4	2174.1	2162.5
22.5°	9002.7	8226.2	6444.0	4698.0	3285.8	2407.8	2088.5	2010.1	2000.0	2026.1	2026.1
25°	8702.3	7790.8	5721.2	3812.7	2555.8	2008.7	1865.0	1849.0	1876.6	1923.0	1927.4
27.5°	8422.1	7371.4	5015.8	3026.1	2047.8	1769.2	1709.7	1728.6	1777.9	1831.6	1833.0
30°	8191.4	6975.2	4330.8	2384.6	1730.0	1590.7	1580.5	1618.2	1671.9	1714.0	1724.2
32.5°	8012.9	6637.0	3669.0	1917.2	1522.5	1457.1	1465.9	1497.8	1531.2	1554.4	1570.4
35°	7930.1	6346.7	3058.0	1616.8	1390.4	1354.1	1365.7	1383.1	1397.6	1415.1	1428.1
37.5°	7944.7	6121.8	2512.3	1429.6	1301.9	1283.0	1283.0	1283.0	1283.0	1291.7	1293.1
40°	8079.6	5992.6	2068.2	1310.6	1242.4	1222.0	1206.1	1191.6	1179.9	1185.7	1182.8
42.5°	8425.1	5981.0	1743.1	1235.1	1194.5	1161.1	1129.1	1108.8	1094.3	1100.1	1103.0
45°	9011.4	6126.1	1523.9	1181.4	1149.5	1098.7	1058.0	1036.3	1026.1	1045.0	1047.9
47.5°	9770.4	6442.5	1390.4	1142.2	1107.4	1040.6	997.1	976.8	979.7	1007.2	1014.5
50°	10748.7	6956.3	1326.5	1117.5	1078.3	991.3	946.3	928.9	937.6	976.8	985.5
52.5°	11822.6	7696.5	1333.8	1110.3	1059.5	955.0	907.1	886.8	901.3	937.6	944.8
55°	13062.1	8586.2	1454.2	1120.4	1031.9	931.8	875.2	840.3	851.9	885.3	891.1
57.5°	14439.4	9605.0	1696.6	1117.5	997.1	910.0	841.8	789.5	798.2	818.6	824.4
60°	15873.3	10835.7	2072.5	1126.2	981.1	883.9	796.8	731.5	728.6	746.0	748.9
62.5°	17594.6	12259.5	2502.1	1132.0	991.3	850.5	737.3	673.4	664.7	669.1	672.0
65°	19368.2	13290.0	2341.0	1108.8	1023.2	822.9	685.0	616.8	600.9	598.0	599.4
67.5°	19423.3	12185.5	1641.5	1062.4	1036.3	808.4	645.8	568.9	542.8	532.6	531.2
70°	17419.0	9899.6	1278.6	1013.0	984.0	785.2	609.6	529.7	490.6	474.6	473.1
71°	16440.8	9113.0	1211.9	988.4	944.8	762.0	593.6	512.3	471.7	454.3	451.4
72.5°	14906.8	8169.6	1130.6	949.2	869.4	702.5	563.1	487.7	445.6	425.2	420.9
75°	10697.9	5342.4	970.9	846.1	719.9	560.2	493.5	438.3	402.0	377.3	374.4
77.5°	4121.8	2126.2	734.4	703.9	551.5	438.3	406.4	378.8	352.7	328.0	326.6
80°	1274.3	950.6	535.5	529.7	399.1	326.6	316.4	309.1	299.0	272.9	267.0
82.5°	680.7	545.7	368.6	342.5	261.2	217.7	229.3	232.2	233.7	206.1	203.2
85°	325.1	288.8	207.5	194.5	152.4	121.9	140.8	152.4	153.8	126.3	117.6
87.5°	155.3	150.9	97.2	74.0	56.6	40.6	49.3	61.0	66.8	47.9	42.1
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)