

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: P319381

Luminaire Tested: **GAN-SA7D-740-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319381  
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-SA7D-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA 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: 53763 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

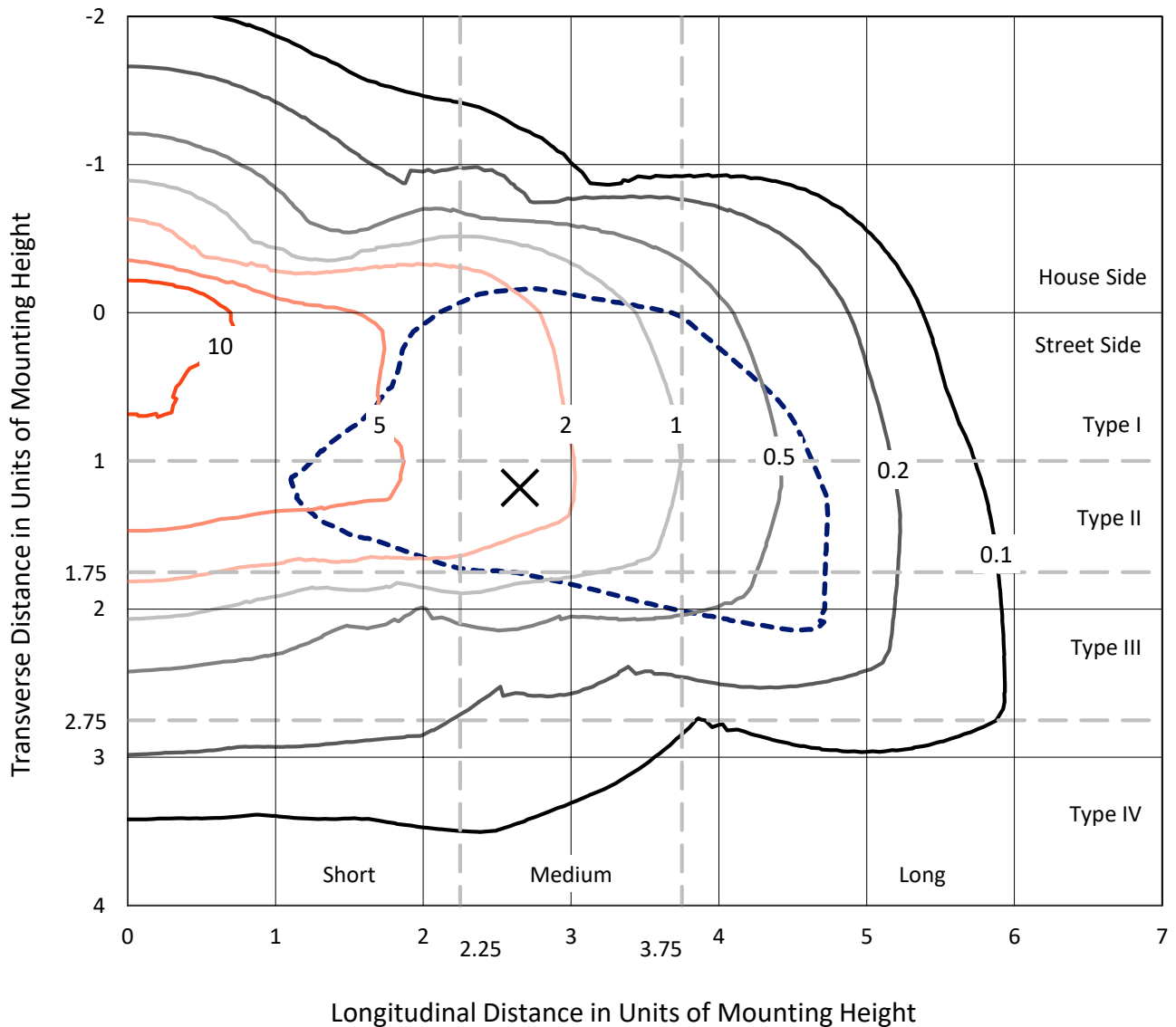
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

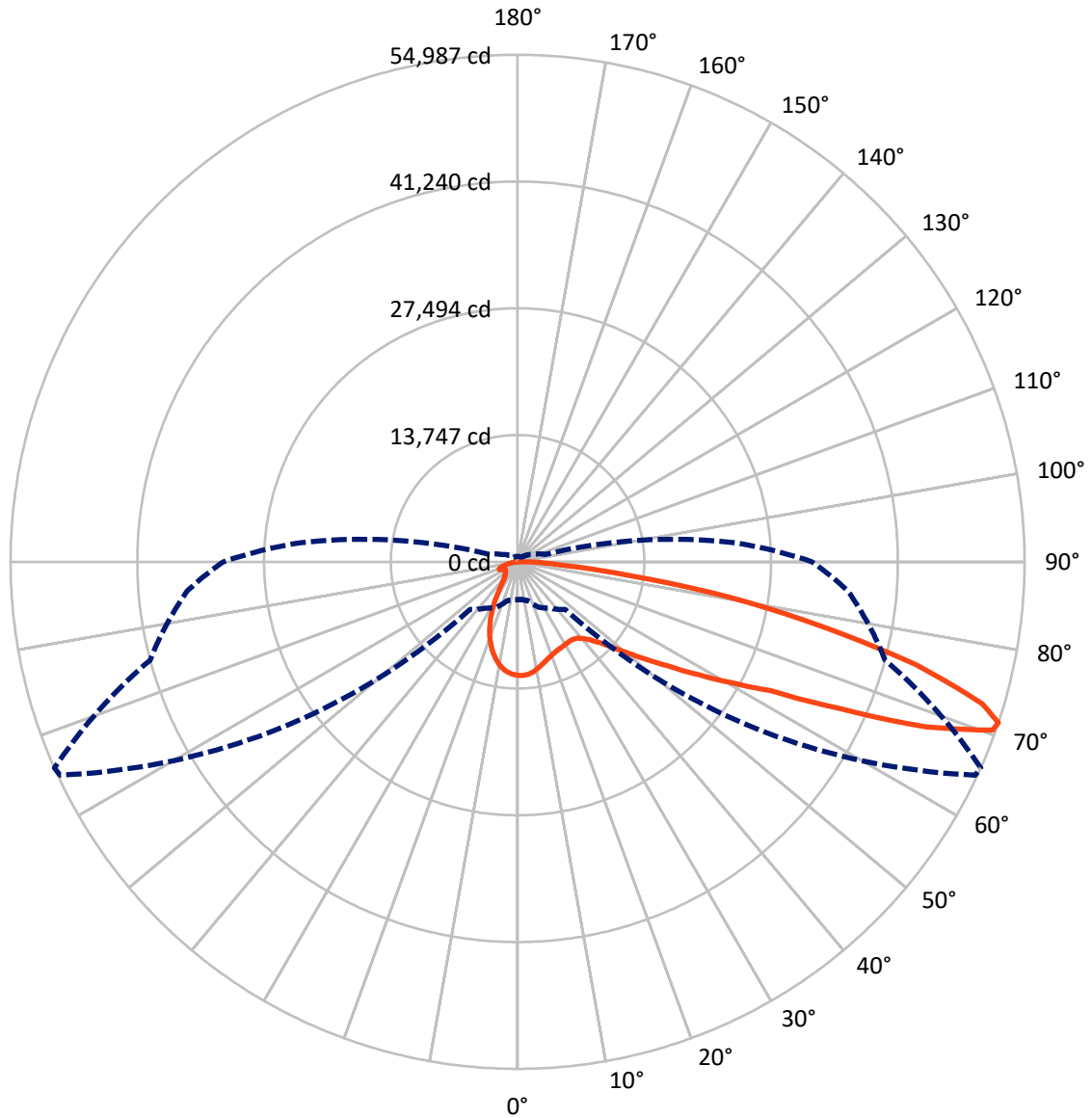
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 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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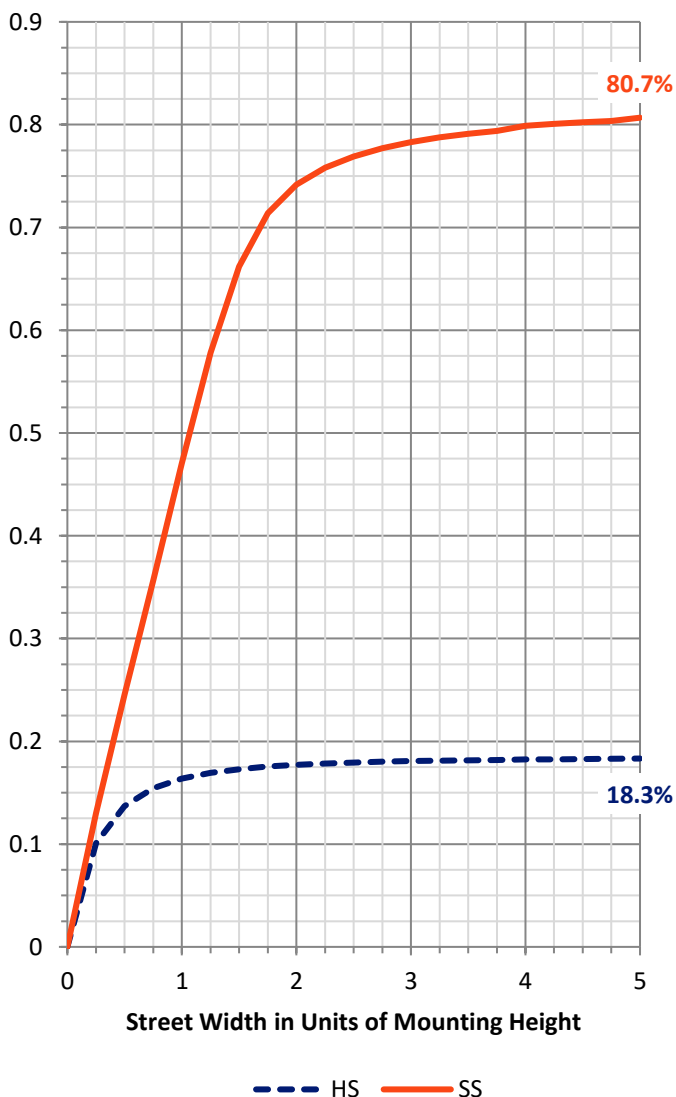
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9963.8	0.0	9963.8
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	43799.2	0.0	43799.2
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	53763.0	0.0	53763.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1084.1	2.0
10°-20°	2600.2	4.8
20°-30°	3492.7	6.5
30°-40°	4594.5	8.5
40°-50°	6683.9	12.4
50°-60°	10440.9	19.4
60°-70°	13078.9	24.3
70°-80°	9976.3	18.6
80°-90°	1811.6	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°	53763.0	100.0
0°-180°	53763.0	100.0

**Coefficient of Utilization**

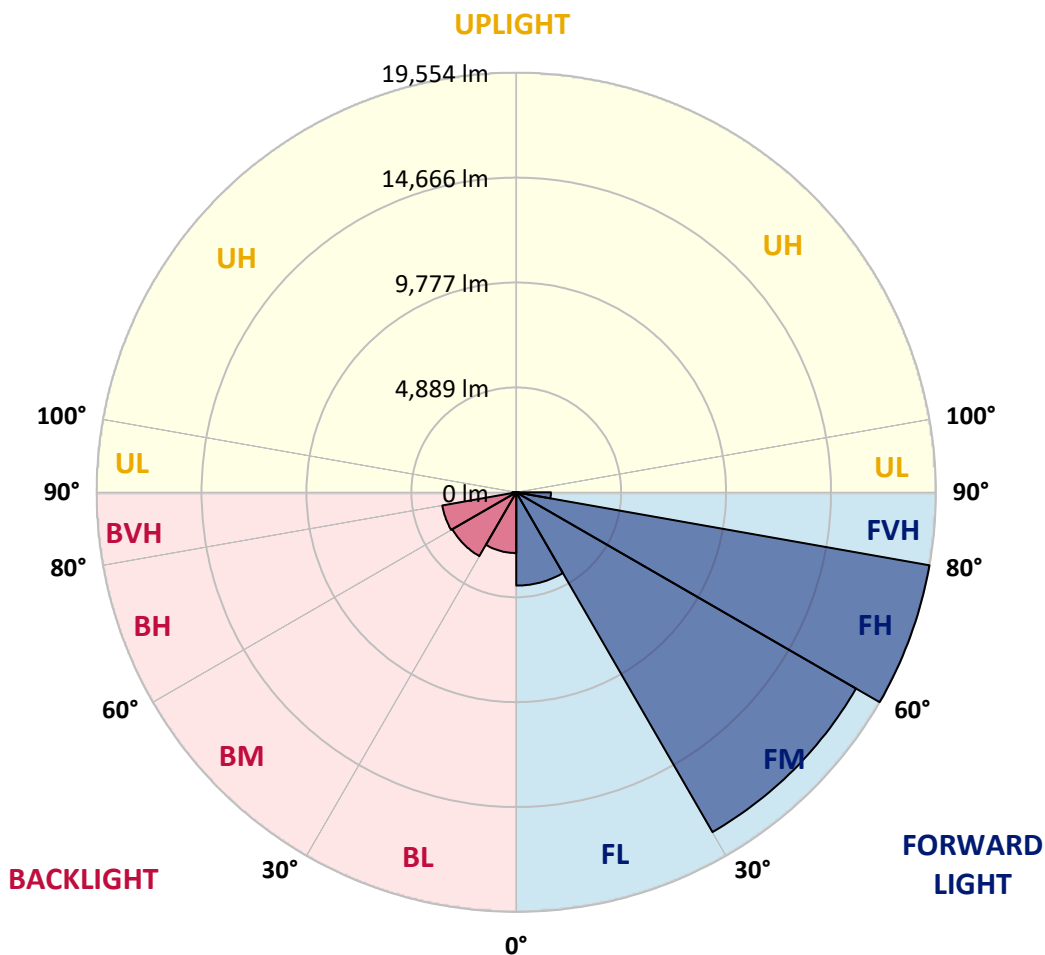


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4347.5	8.1			
FM (30°-60°)	18282.1	34.0			
FH (60°-80°)	19554.2	36.4			G5
FVH (80°-90°)	1615.5	3.0			G5
BL (0°-30°)	2829.4	5.3	B4/5000		
BM (30°-60°)	3437.2	6.4	B3/5000		
BH (60°-80°)	3501.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	196.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1
2.5°	12087.7	12069.2	12124.9	12182.4	12204.7	12241.8	12297.5	12329.1	12327.2	12332.8	12314.2
5°	11285.9	11261.7	11373.1	11464.1	11638.5	11835.3	12074.8	12245.5	12249.2	12345.8	12371.7
7.5°	10526.7	10510.0	10638.0	10784.7	10987.0	11287.7	11675.7	12043.2	12065.5	12327.2	12418.2
10°	9917.8	9914.1	10038.5	10198.1	10433.8	10769.8	11215.3	11753.6	11787.0	12238.1	12425.6
12.5°	9442.6	9450.0	9557.7	9739.6	9988.4	10339.2	10821.8	11428.8	11482.6	12097.0	12382.9
15°	9091.8	9121.5	9208.7	9392.5	9637.5	9993.9	10489.5	11128.1	11209.8	11939.2	12358.8
17.5°	8891.3	8924.7	8986.0	9138.2	9368.4	9711.8	10181.4	10881.2	10955.4	11818.6	12360.6
20°	8831.9	8859.8	8895.0	8987.8	9182.8	9494.6	9938.2	10658.5	10738.3	11722.1	12379.2
22.5°	8948.9	8969.3	8973.0	8965.6	9084.4	9338.7	9761.9	10495.1	10580.5	11659.0	12392.2
25°	9199.5	9227.3	9206.9	9138.2	9099.2	9255.1	9670.9	10387.4	10472.8	11612.6	12366.2
27.5°	9576.3	9580.0	9563.3	9474.2	9290.4	9264.4	9643.1	10324.3	10406.0	11558.7	12312.4
30°	10088.6	10112.7	10083.0	9962.4	9661.7	9412.9	9676.5	10263.1	10337.3	11490.0	12225.1
32.5°	10688.2	10747.6	10745.7	10619.5	10188.8	9745.2	9813.9	10226.0	10283.5	11417.6	12119.3
35°	11310.0	11391.7	11543.9	11490.0	10957.3	10270.5	10077.5	10285.4	10324.3	11408.4	12045.1
37.5°	11956.0	12037.6	12351.3	12496.1	11872.4	11022.3	10493.2	10495.1	10513.7	11521.6	12039.5
40°	12631.6	12718.9	13190.3	13567.2	13058.6	11974.5	11163.3	10933.2	10912.8	11800.0	12149.0
42.5°	13578.3	13656.3	14222.4	14703.2	14374.6	13194.1	12089.6	11608.8	11566.1	12345.8	12499.8
45°	14775.6	14842.4	15443.8	15958.0	15789.1	14586.2	13253.5	12538.8	12531.4	13255.3	13210.8
47.5°	16199.3	16251.3	16791.4	17288.9	17350.1	16188.2	14716.2	13973.7	13853.0	14502.7	14311.5
50°	17682.4	17740.0	18107.5	18642.1	19096.9	18332.1	16598.4	15731.5	15570.0	16149.2	15870.7
52.5°	18664.4	18740.5	19059.7	19737.3	21060.7	20682.1	18824.0	17862.5	17617.4	18144.6	17931.1
55°	18226.3	18397.1	18885.2	19971.1	22631.1	24272.0	21569.4	20348.0	20071.4	20509.4	20383.2
57.5°	16234.6	16468.4	17134.8	18811.0	22852.0	27435.0	25719.9	23275.2	23080.3	22954.1	23011.6
60°	12594.5	12819.1	13645.1	15829.9	21313.2	29744.2	31966.1	26883.7	26601.6	25408.0	25460.0
62.5°	8913.6	8800.4	9366.5	10964.7	17318.6	30015.2	39073.6	31709.9	30781.8	27999.3	27771.0
65°	6797.5	6771.5	7025.8	7534.4	10489.5	26772.4	43307.6	39821.6	38371.9	31047.2	30508.9
67.5°	5585.4	5539.0	5789.6	6530.2	6754.8	17272.2	43400.4	49232.7	47809.0	34841.4	33675.7
70°	4592.3	4540.3	4774.2	5730.2	6242.5	8759.5	36526.8	54743.8	54667.7	39645.3	36066.5
71°	4117.1	4080.0	4360.3	5422.0	6133.0	7300.5	31537.3	54758.7	54987.0	41271.3	35925.4
72.5°	3352.3	3365.3	3662.3	4826.2	6051.3	6446.7	23178.7	52206.4	52689.0	42821.3	34642.8
75°	2227.5	2238.6	2628.4	3712.5	5867.5	6307.5	12739.3	43806.9	44694.2	41893.2	31611.5
77.5°	1496.1	1492.4	1757.8	2546.7	5112.0	6307.5	7469.5	32764.3	33738.8	33334.1	24370.4
80°	1030.2	1022.8	1210.3	1757.8	3870.2	6383.6	5774.7	22961.5	23256.7	18001.7	9904.8
82.5°	631.1	636.7	790.8	1241.8	2634.0	5745.0	5451.7	12520.2	12199.1	5048.9	2474.3
85°	362.0	360.1	504.9	840.9	1691.0	4848.5	5316.2	5388.6	4943.1	1520.2	894.7
87.5°	129.9	139.2	271.0	465.9	969.0	3376.5	4510.6	2802.9	2526.3	686.8	404.7
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°	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1	12316.1
2.5°	12301.2	12312.4	12299.4	12225.1	12162.0	12059.9	12002.4	11922.5	11898.4	11887.3	11917.0
5°	12347.6	12351.3	12241.8	12046.9	11827.9	11569.9	11384.2	11155.9	11048.3	11001.9	11031.6
7.5°	12390.3	12373.6	12134.2	11761.1	11356.4	10907.2	10508.1	10142.4	9929.0	9841.7	9849.1
10°	12395.9	12325.3	11941.1	11363.8	10736.4	10077.5	9464.9	8900.6	8544.2	8312.2	8382.7
12.5°	12338.3	12219.5	11657.1	10849.6	9979.1	9080.7	8252.8	7406.3	6897.7	6662.0	6669.4
15°	12293.8	12078.5	11308.1	10244.5	9075.1	7885.2	6754.8	5759.9	5217.9	4976.5	4863.3
17.5°	12256.7	11926.3	10903.5	9563.3	8007.8	6498.6	5139.9	4252.6	3955.6	3885.1	3855.4
20°	12204.7	11764.8	10452.4	8774.4	6791.9	4946.8	3753.3	3315.2	3317.1	3398.8	3409.9
22.5°	12132.3	11581.0	9971.6	7889.0	5487.0	3602.9	2942.1	2815.9	2944.0	3099.9	3127.7
25°	12024.6	11363.8	9437.1	6910.7	4183.9	2769.5	2513.3	2507.8	2663.7	2827.0	2851.2
27.5°	11872.4	11079.8	8843.1	5860.1	3083.2	2353.7	2251.6	2290.6	2405.7	2524.5	2533.7
30°	11668.2	10749.4	8187.8	4751.9	2416.8	2095.7	2084.5	2119.8	2190.3	2273.9	2281.3
32.5°	11443.6	10413.4	7488.0	3679.0	2069.7	1956.5	1967.6	1984.3	2017.7	2051.1	2058.6
35°	11239.5	10070.0	6771.5	2795.5	1904.5	1865.5	1858.1	1854.4	1858.1	1846.9	1848.8
37.5°	11107.7	9786.0	6025.3	2225.6	1809.8	1785.7	1763.4	1735.6	1704.0	1685.5	1689.2
40°	11059.4	9574.4	5269.8	1923.1	1731.9	1715.2	1672.5	1613.1	1575.9	1564.8	1564.8
42.5°	11189.3	9464.9	4540.3	1770.8	1666.9	1639.0	1568.5	1499.8	1472.0	1470.1	1468.3
45°	11586.6	9509.4	3846.1	1687.3	1607.5	1553.7	1460.9	1403.3	1384.7	1388.5	1386.6
47.5°	12299.4	9789.7	3252.1	1631.6	1548.1	1477.6	1373.6	1327.2	1304.9	1304.9	1306.8
50°	13511.5	10445.0	2778.8	1585.2	1498.0	1407.0	1310.5	1253.0	1223.3	1221.4	1221.4
52.5°	15276.7	11618.1	2483.6	1546.2	1442.3	1343.9	1247.4	1175.0	1139.7	1132.3	1128.6
55°	17489.4	13299.9	2402.0	1520.2	1368.0	1275.2	1171.3	1098.9	1059.9	1043.2	1041.3
57.5°	19963.7	15345.4	2563.4	1488.7	1291.9	1193.6	1087.7	1019.1	978.2	957.8	956.0
60°	22467.8	17578.5	3222.4	1444.1	1228.8	1104.5	1002.4	939.3	898.4	876.1	872.4
62.5°	24975.5	19932.2	4568.2	1440.4	1184.3	1019.1	915.1	861.3	822.3	798.2	792.6
65°	27804.4	22508.6	6097.7	1538.8	1169.4	941.1	826.0	783.3	749.9	727.6	725.8
67.5°	31052.8	25417.3	5951.1	1741.1	1219.5	870.6	742.5	709.1	684.9	666.4	664.5
70°	32576.8	24962.5	3699.5	1884.1	1290.1	801.9	662.7	638.5	620.0	607.0	601.4
71°	31938.2	23702.2	3101.8	1867.4	1282.7	772.2	631.1	612.6	594.0	582.9	577.3
72.5°	30197.1	21615.8	2587.6	1737.4	1199.1	718.4	590.3	571.7	555.0	542.0	538.3
75°	27097.2	19304.8	2071.5	1388.5	956.0	607.0	517.9	497.5	484.5	477.1	469.6
77.5°	19919.2	13776.9	1601.9	1097.0	703.5	495.6	441.8	426.9	413.9	402.8	397.2
80°	7630.9	5336.7	1078.5	818.6	516.0	391.7	356.4	349.0	336.0	328.6	328.6
82.5°	2054.8	1594.5	575.4	495.6	345.3	285.9	272.9	269.2	258.0	243.2	245.0
85°	831.6	703.5	323.0	272.9	211.6	168.9	183.8	185.6	172.6	154.1	155.9
87.5°	365.7	298.9	180.1	120.7	92.8	65.0	83.5	83.5	76.1	63.1	57.5
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)