

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: P319379

Luminaire Tested: **GAN-SA5D-740-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319379  
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-SA5D-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 37989 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

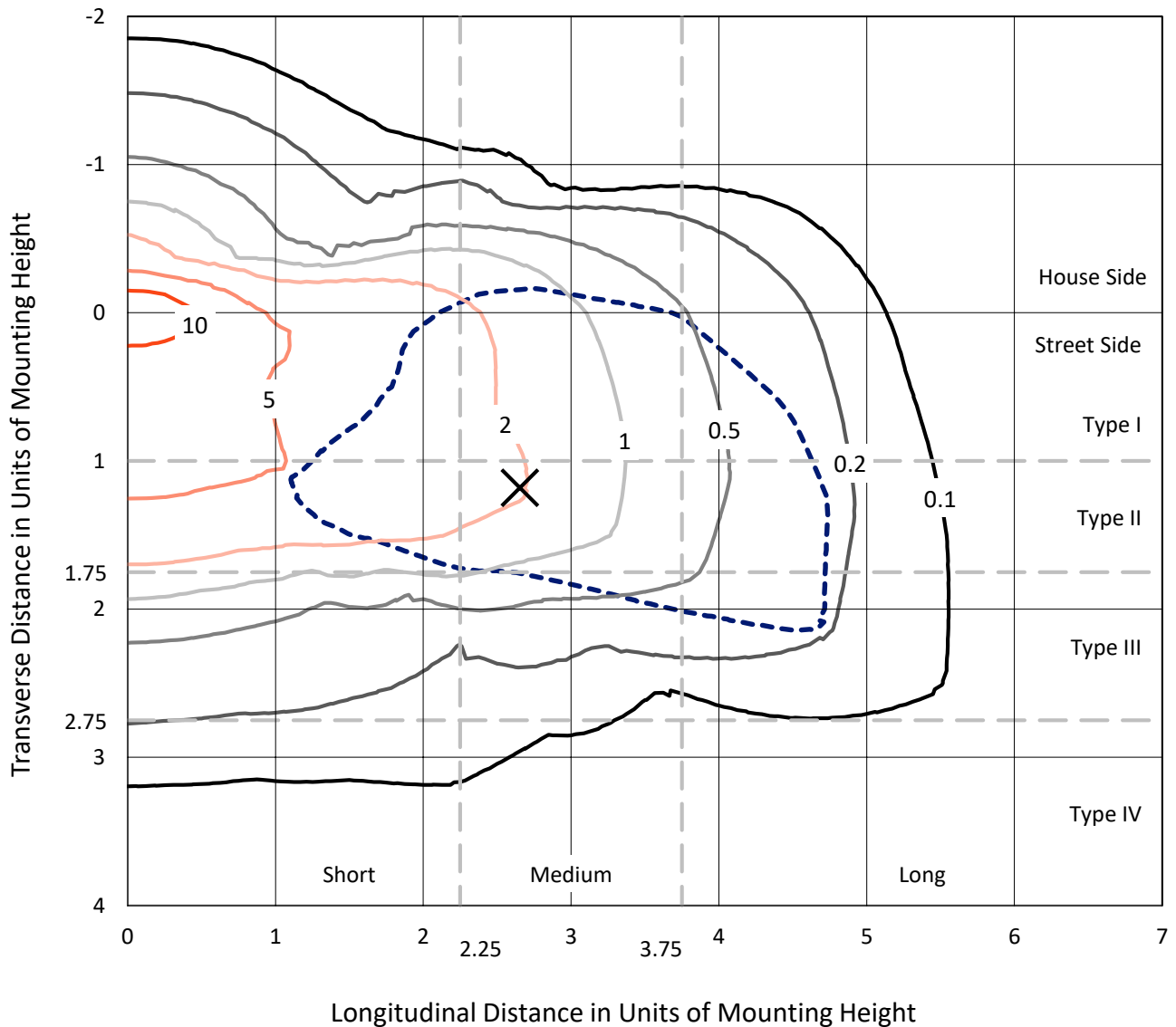
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

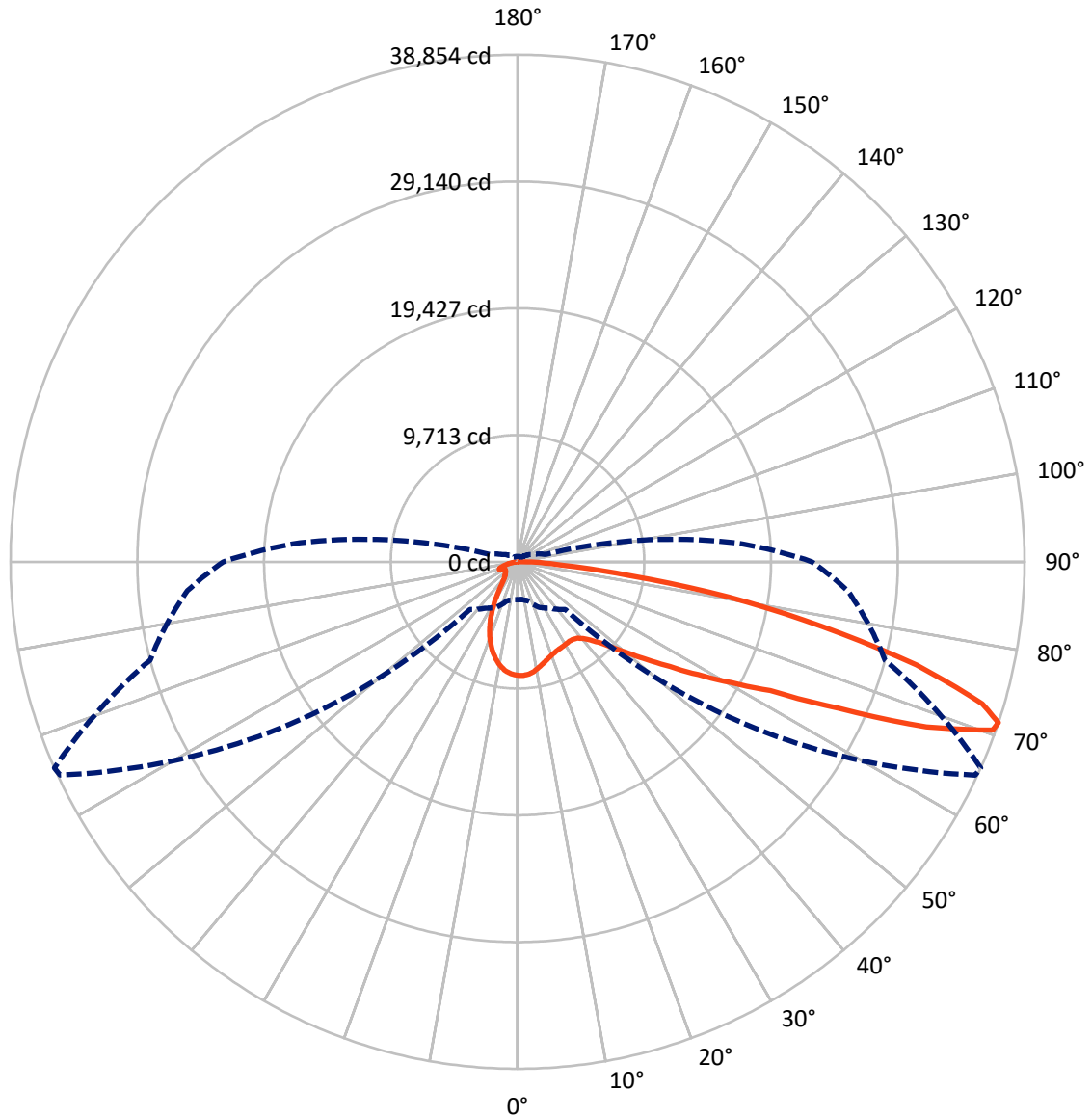
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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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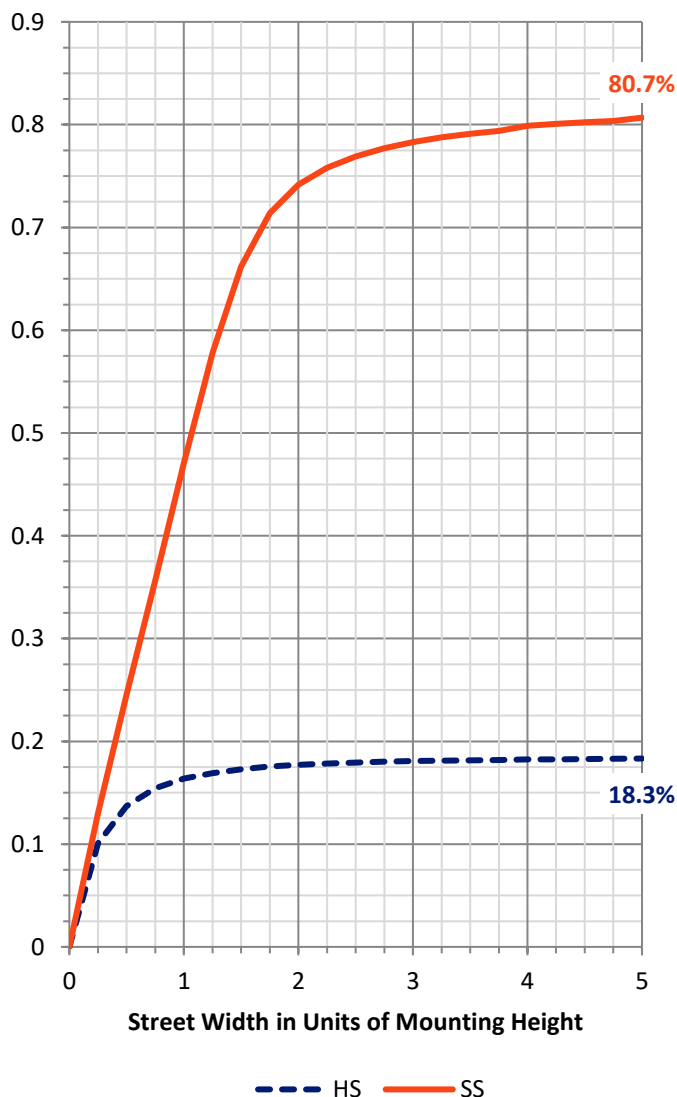
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7040.4	0.0	7040.4
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	30948.6	0.0	30948.6
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	37989.0	0.0	37989.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	766.0	2.0
10°-20°	1837.3	4.8
20°-30°	2467.9	6.5
30°-40°	3246.5	8.5
40°-50°	4722.8	12.4
50°-60°	7377.5	19.4
60°-70°	9241.6	24.3
70°-80°	7049.3	18.6
80°-90°	1280.1	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°	37989.0	100.0
0°-180°	37989.0	100.0

**Coefficient of Utilization**

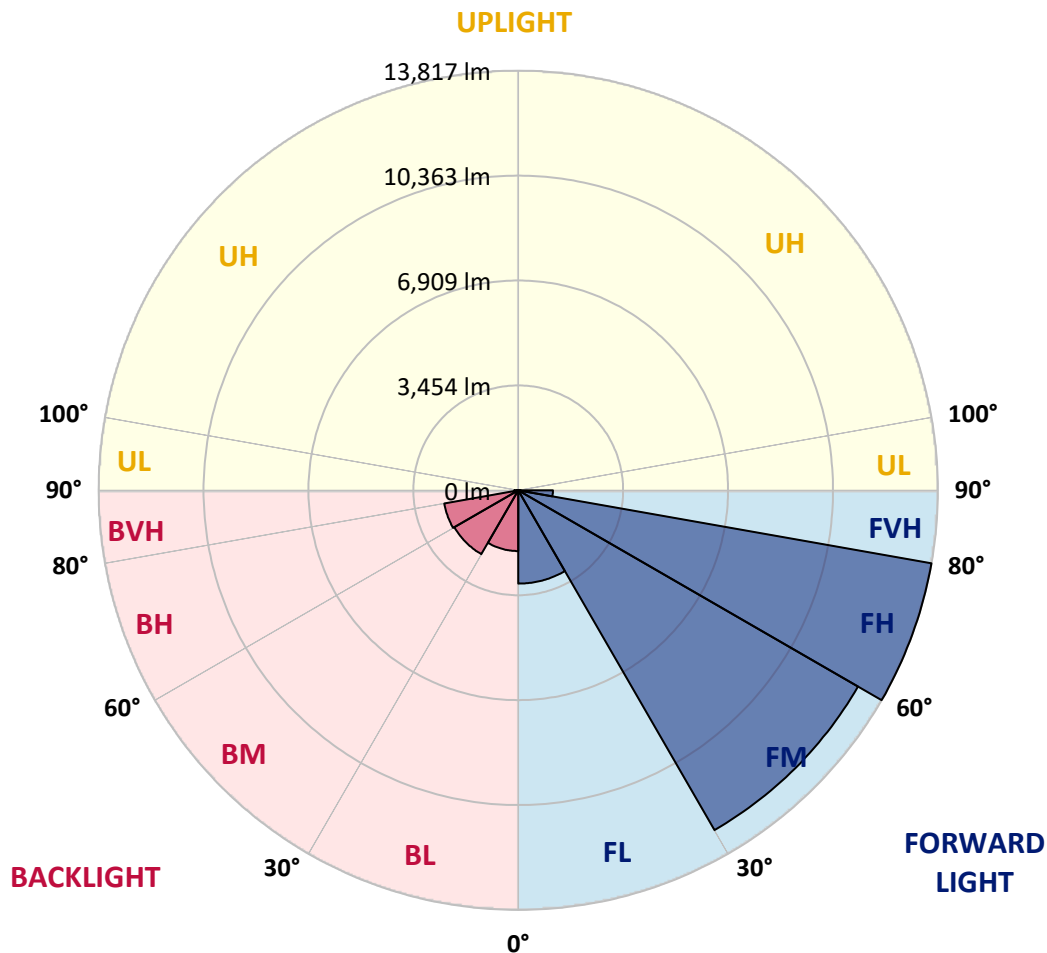


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3071.9	8.1			
FM (30°-60°)	12918.2	34.0			
FH (60°-80°)	13817.0	36.4			G5
FVH (80°-90°)	1141.5	3.0			G5
BL (0°-30°)	1999.3	5.3	B3/2500		
BM (30°-60°)	2428.7	6.4	B2/2500		
BH (60°-80°)	2473.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	138.6	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°	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5
2.5°	8541.2	8528.1	8567.4	8608.1	8623.8	8650.1	8689.4	8711.7	8710.4	8714.3	8701.2
5°	7974.6	7957.5	8036.2	8100.5	8223.8	8362.8	8532.0	8652.7	8655.3	8723.5	8741.9
7.5°	7438.2	7426.3	7516.8	7620.5	7763.4	7975.9	8250.0	8509.7	8525.5	8710.4	8774.7
10°	7007.9	7005.3	7093.2	7206.0	7372.6	7610.0	7924.8	8305.1	8328.7	8647.5	8779.9
12.5°	6672.2	6677.4	6753.5	6882.0	7057.8	7305.7	7646.7	8075.6	8113.6	8547.8	8749.8
15°	6424.3	6445.3	6506.9	6636.8	6809.9	7061.7	7411.9	7863.1	7920.8	8436.3	8732.7
17.5°	6282.6	6306.2	6349.5	6457.1	6619.7	6862.4	7194.2	7688.7	7741.1	8351.0	8734.0
20°	6240.6	6260.3	6285.2	6350.8	6488.5	6708.9	7022.4	7531.3	7587.7	8282.8	8747.1
22.5°	6323.3	6337.7	6340.3	6335.1	6419.0	6598.7	6897.8	7415.9	7476.2	8238.2	8756.3
25°	6500.3	6520.0	6505.6	6457.1	6429.5	6539.7	6833.5	7339.8	7400.1	8205.4	8738.0
27.5°	6766.6	6769.2	6757.4	6694.5	6564.6	6546.3	6813.8	7295.2	7352.9	8167.4	8699.9
30°	7128.6	7145.7	7124.7	7039.4	6826.9	6651.2	6837.4	7251.9	7304.4	8118.9	8638.3
32.5°	7552.3	7594.2	7592.9	7503.7	7199.4	6886.0	6934.5	7225.7	7266.3	8067.7	8563.5
35°	7991.7	8049.4	8156.9	8118.9	7742.4	7257.1	7120.7	7267.6	7295.2	8061.2	8511.0
37.5°	8448.1	8505.8	8727.5	8829.8	8389.1	7788.4	7414.5	7415.9	7429.0	8141.2	8507.1
40°	8925.5	8987.2	9320.3	9586.6	9227.2	8461.2	7888.0	7725.4	7711.0	8337.9	8584.5
42.5°	9594.4	9649.5	10049.6	10389.3	10157.1	9322.9	8542.5	8202.8	8172.7	8723.5	8832.4
45°	10440.4	10487.6	10912.6	11275.9	11156.6	10306.6	9364.9	8859.9	8854.7	9366.2	9334.7
47.5°	11446.4	11483.2	11864.8	12216.4	12259.6	11438.6	10398.5	9873.8	9788.6	10247.6	10112.5
50°	12494.4	12535.1	12794.8	13172.5	13493.9	12953.5	11728.4	11115.9	11001.8	11411.0	11214.3
52.5°	13188.3	13242.0	13467.6	13946.4	14881.5	14614.0	13301.1	12621.6	12448.5	12821.0	12670.2
55°	12878.7	12999.4	13344.3	14111.6	15991.2	17150.6	15240.9	14377.9	14182.5	14492.0	14402.8
57.5°	11471.4	11636.6	12107.5	13291.9	16147.3	19385.6	18173.7	16446.3	16308.6	16219.4	16260.1
60°	8899.3	9058.0	9641.7	11185.4	15059.9	21017.3	22587.3	18996.1	18796.7	17953.3	17990.1
62.5°	6298.4	6218.4	6618.4	7747.7	12237.3	21208.8	27609.4	22406.3	21750.5	19784.4	19623.0
65°	4803.1	4784.8	4964.5	5323.8	7411.9	18917.4	30601.2	28138.0	27113.6	21938.0	21557.7
67.5°	3946.6	3913.8	4090.9	4614.3	4773.0	12204.5	30666.8	34787.9	33781.9	24619.0	23795.3
70°	3244.9	3208.2	3373.5	4048.9	4411.0	6189.5	25809.9	38682.1	38628.3	28013.4	25484.6
71°	2909.2	2882.9	3081.0	3831.2	4333.6	5158.6	22284.3	38692.5	38853.9	29162.4	25384.9
72.5°	2368.8	2378.0	2587.8	3410.2	4275.9	4555.2	16378.1	36889.1	37230.1	30257.6	24478.6
75°	1573.9	1581.8	1857.2	2623.2	4146.0	4456.9	9001.6	30954.0	31581.0	29601.8	22336.7
77.5°	1057.2	1054.5	1242.1	1799.5	3612.2	4456.9	5277.9	23151.3	23839.9	23553.9	17220.2
80°	727.9	722.7	855.2	1242.1	2734.7	4510.6	4080.4	16224.6	16433.2	12720.0	6998.8
82.5°	445.9	449.9	558.7	877.5	1861.2	4059.4	3852.2	8846.8	8619.9	3567.6	1748.4
85°	255.8	254.5	356.8	594.2	1194.9	3425.9	3756.5	3807.6	3492.8	1074.2	632.2
87.5°	91.8	98.4	191.5	329.2	684.7	2385.8	3187.2	1980.5	1785.1	485.3	285.9
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°	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5	8702.5
2.5°	8692.1	8699.9	8690.7	8638.3	8593.7	8521.5	8480.9	8424.5	8407.4	8399.6	8420.5
5°	8724.8	8727.5	8650.1	8512.4	8357.6	8175.3	8044.1	7882.8	7806.7	7773.9	7794.9
7.5°	8755.0	8743.2	8574.0	8310.4	8024.4	7707.0	7425.0	7166.6	7015.8	6954.2	6959.4
10°	8758.9	8709.1	8437.6	8029.7	7586.4	7120.7	6687.9	6289.2	6037.3	5873.4	5923.2
12.5°	8718.3	8634.3	8236.9	7666.4	7051.2	6416.4	5831.4	5233.3	4873.9	4707.4	4712.6
15°	8686.8	8534.7	7990.3	7238.8	6412.5	5571.7	4773.0	4069.9	3686.9	3516.4	3436.4
17.5°	8660.6	8427.1	7704.4	6757.4	5658.3	4592.0	3631.9	3004.9	2795.0	2745.2	2724.2
20°	8623.8	8313.0	7385.7	6200.0	4799.2	3495.4	2652.1	2342.5	2343.9	2401.6	2409.4
22.5°	8572.7	8183.1	7046.0	5574.4	3877.1	2545.8	2078.9	1989.7	2080.2	2190.4	2210.1
25°	8496.6	8029.7	6668.2	4883.1	2956.4	1956.9	1775.9	1772.0	1882.2	1997.6	2014.6
27.5°	8389.1	7829.0	6248.5	4140.8	2178.6	1663.1	1591.0	1618.5	1699.8	1783.8	1790.4
30°	8244.8	7595.5	5785.5	3357.7	1707.7	1480.8	1472.9	1497.9	1547.7	1606.7	1612.0
32.5°	8086.1	7358.1	5291.0	2599.6	1462.4	1382.4	1390.3	1402.1	1425.7	1449.3	1454.6
35°	7941.8	7115.5	4784.8	1975.3	1345.7	1318.2	1312.9	1310.3	1312.9	1305.1	1306.4
37.5°	7848.7	6914.8	4257.5	1572.6	1278.8	1261.8	1246.0	1226.4	1204.1	1190.9	1193.6
40°	7814.6	6765.3	3723.7	1358.8	1223.7	1211.9	1181.8	1139.8	1113.6	1105.7	1105.7
42.5°	7906.4	6687.9	3208.2	1251.3	1177.8	1158.2	1108.3	1059.8	1040.1	1038.8	1037.5
45°	8187.1	6719.4	2717.7	1192.3	1135.9	1097.8	1032.2	991.6	978.5	981.1	979.8
47.5°	8690.7	6917.4	2297.9	1152.9	1093.9	1044.0	970.6	937.8	922.1	922.1	923.4
50°	9547.2	7380.4	1963.5	1120.1	1058.5	994.2	926.0	885.3	864.4	863.0	863.0
52.5°	10794.6	8209.4	1754.9	1092.6	1019.1	949.6	881.4	830.3	805.3	800.1	797.5
55°	12358.0	9397.7	1697.2	1074.2	966.7	901.1	827.6	776.5	748.9	737.1	735.8
57.5°	14106.4	10843.1	1811.3	1051.9	912.9	843.4	768.6	720.1	691.2	676.8	675.5
60°	15875.7	12421.0	2277.0	1020.4	868.3	780.4	708.3	663.7	634.8	619.1	616.5
62.5°	17647.7	14084.1	3227.9	1017.8	836.8	720.1	646.6	608.6	581.0	564.0	560.1
65°	19646.6	15904.6	4308.6	1087.3	826.3	665.0	583.7	553.5	529.9	514.2	512.8
67.5°	21942.0	17959.9	4205.0	1230.3	861.7	615.1	524.6	501.0	484.0	470.9	469.6
70°	23018.8	17638.6	2614.0	1331.3	911.6	566.6	468.2	451.2	438.1	428.9	425.0
71°	22567.6	16748.0	2191.7	1319.5	906.3	545.6	445.9	432.8	419.7	411.8	407.9
72.5°	21337.3	15273.7	1828.4	1227.7	847.3	507.6	417.1	404.0	392.2	383.0	380.4
75°	19146.9	13640.8	1463.8	981.1	675.5	428.9	365.9	351.5	342.3	337.1	331.8
77.5°	14074.9	9734.8	1131.9	775.2	497.1	350.2	312.2	301.7	292.5	284.6	280.7
80°	5392.0	3770.9	762.0	578.4	364.6	276.8	251.8	246.6	237.4	232.2	232.2
82.5°	1452.0	1126.7	406.6	350.2	244.0	202.0	192.8	190.2	182.3	171.8	173.1
85°	587.6	497.1	228.2	192.8	149.5	119.4	129.8	131.2	122.0	108.9	110.2
87.5°	258.4	211.2	127.2	85.3	65.6	45.9	59.0	59.0	53.8	44.6	40.7
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)