

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: P319339

Luminaire Tested: **GAN-SA5D-730-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319339  
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-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 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: 34596 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

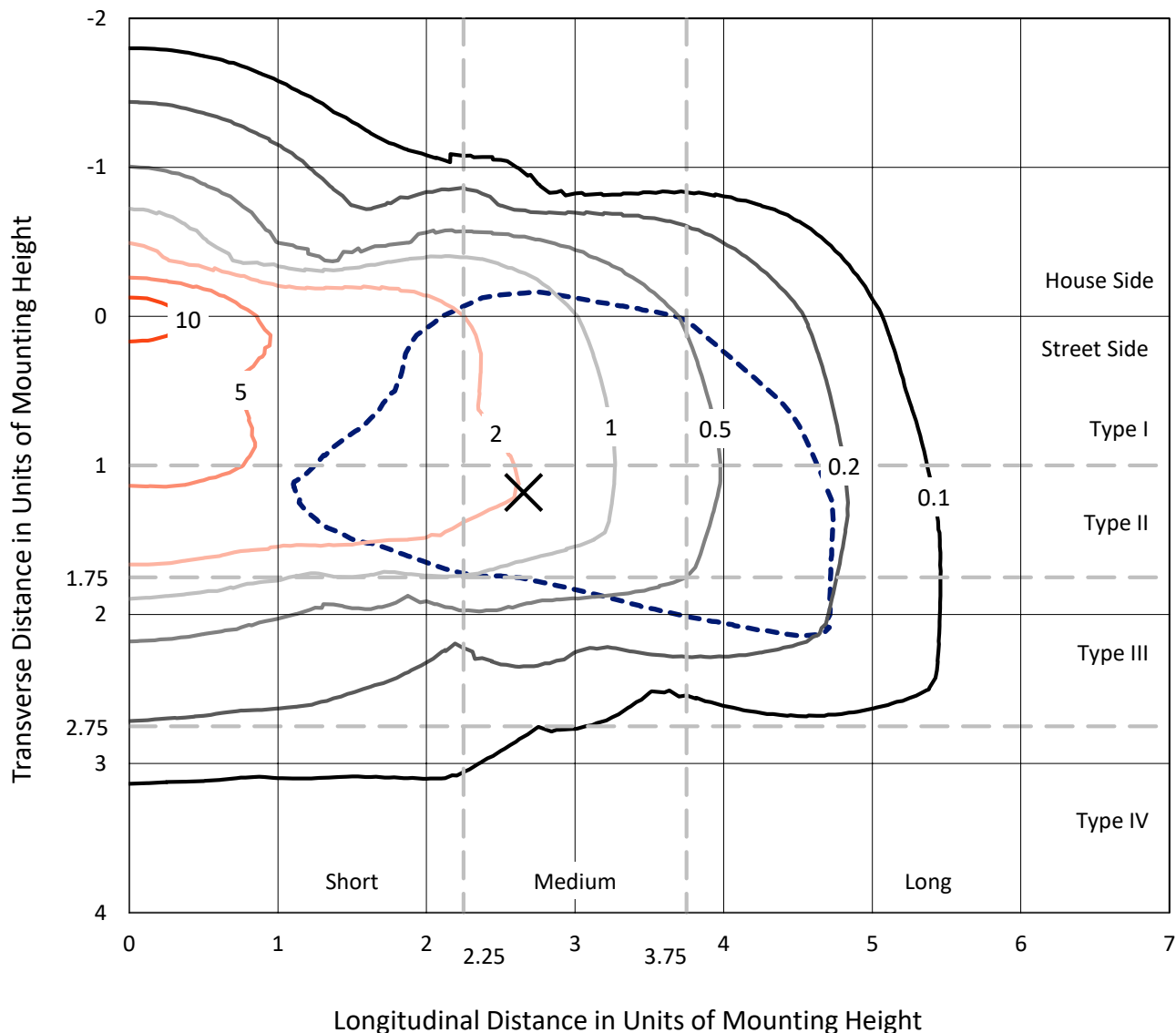
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

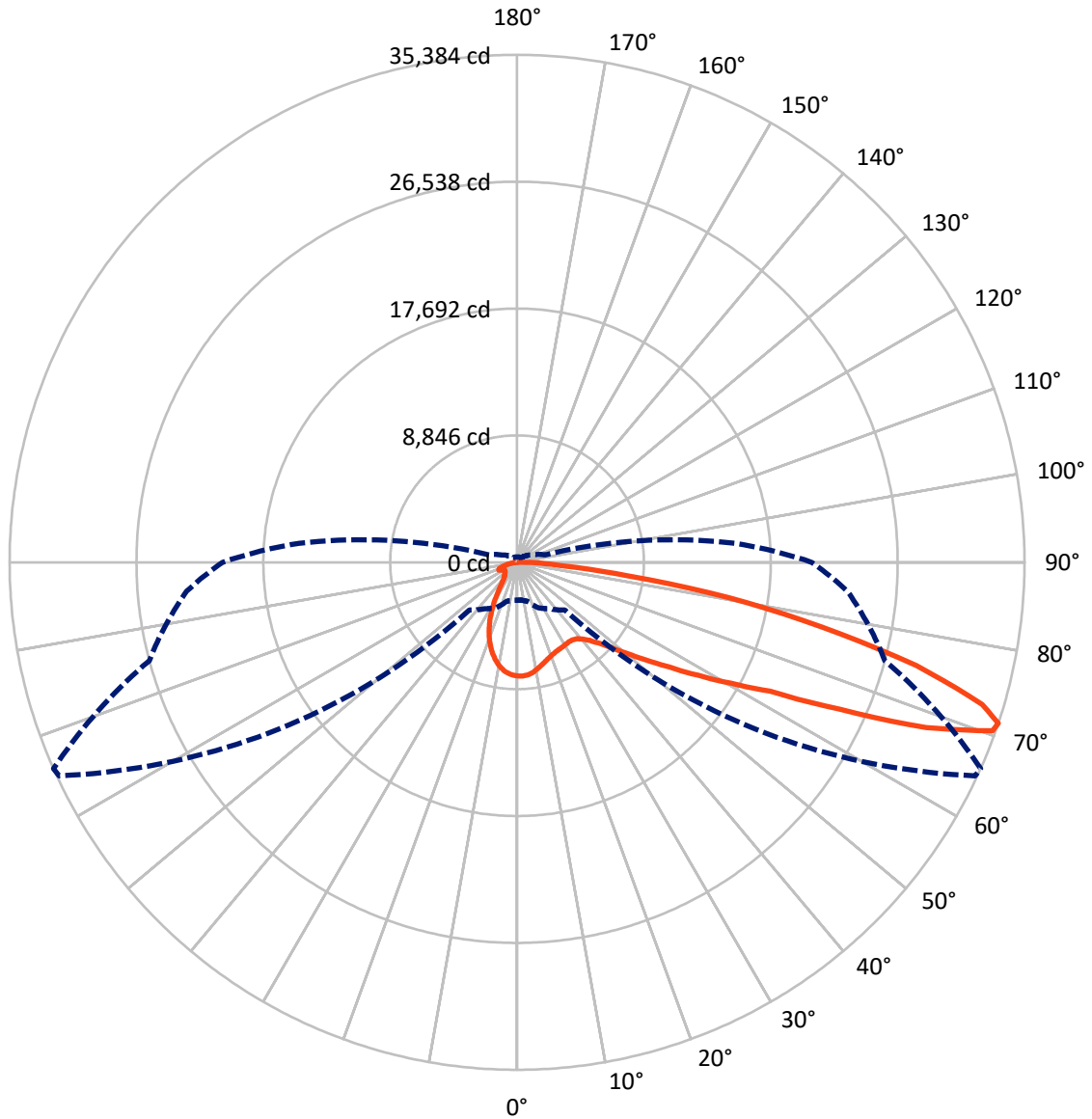
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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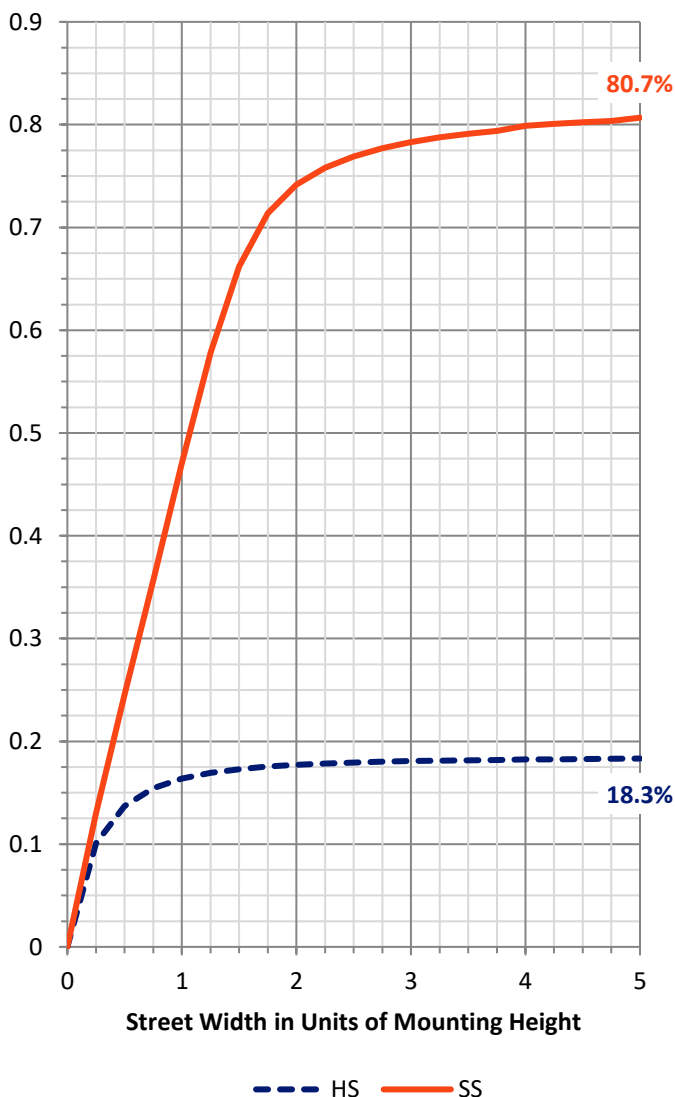
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6411.6	0.0	6411.6
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	28184.4	0.0	28184.4
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	34596.0	0.0	34596.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	697.6	2.0
10°-20°	1673.2	4.8
20°-30°	2247.5	6.5
30°-40°	2956.5	8.5
40°-50°	4301.0	12.4
50°-60°	6718.6	19.4
60°-70°	8416.2	24.3
70°-80°	6419.7	18.6
80°-90°	1165.7	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°	34596.0	100.0
0°-180°	34596.0	100.0

**Coefficient of Utilization**

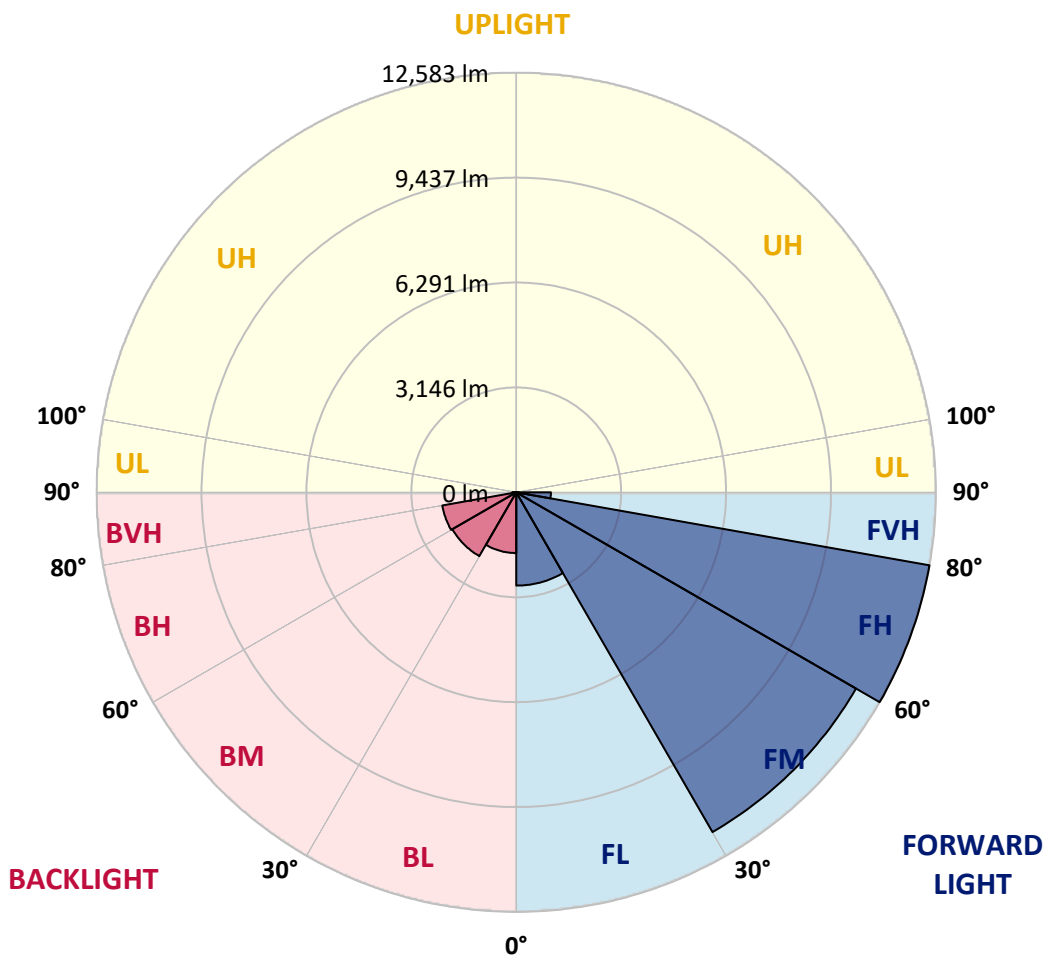


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2797.6	8.1			
FM (30°-60°)	11764.4	34.0			
FH (60°-80°)	12582.9	36.4			G5
FVH (80°-90°)	1039.5	3.0			G5
BL (0°-30°)	1820.7	5.3	B3/2500		
BM (30°-60°)	2211.8	6.4	B2/2500		
BH (60°-80°)	2252.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	126.2	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°	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3
2.5°	7778.4	7766.4	7802.2	7839.3	7853.6	7877.5	7913.3	7933.6	7932.4	7936.0	7924.1
5°	7262.3	7246.8	7318.5	7377.0	7489.3	7615.9	7770.0	7879.9	7882.3	7944.4	7961.1
7.5°	6773.8	6763.1	6845.5	6939.8	7070.0	7263.5	7513.2	7749.7	7764.0	7932.4	7991.0
10°	6382.0	6379.6	6459.7	6562.4	6714.1	6930.3	7217.0	7563.4	7584.9	7875.1	7995.7
12.5°	6076.2	6081.0	6150.3	6267.4	6427.4	6653.2	6963.7	7354.3	7389.0	7784.3	7968.3
15°	5850.5	5869.6	5925.7	6044.0	6201.7	6431.0	6749.9	7160.8	7213.4	7682.8	7952.7
17.5°	5721.5	5743.0	5782.4	5880.4	6028.5	6249.4	6551.6	7002.0	7049.7	7605.2	7953.9
20°	5683.3	5701.2	5723.9	5783.6	5909.0	6109.7	6395.2	6858.6	6910.0	7543.0	7965.9
22.5°	5758.5	5771.7	5774.0	5769.3	5845.7	6009.4	6281.7	6753.5	6808.4	7502.4	7974.2
25°	5919.8	5937.7	5924.5	5880.4	5855.3	5955.6	6223.2	6684.2	6739.2	7472.6	7957.5
27.5°	6162.2	6164.6	6153.9	6096.5	5978.3	5961.6	6205.2	6643.6	6696.2	7437.9	7922.9
30°	6491.9	6507.4	6488.3	6410.7	6217.2	6057.1	6226.7	6604.2	6652.0	7393.7	7866.7
32.5°	6877.7	6916.0	6914.8	6833.5	6556.4	6270.9	6315.1	6580.3	6617.3	7347.2	7798.7
35°	7277.9	7330.4	7428.4	7393.7	7050.9	6609.0	6484.7	6618.5	6643.6	7341.2	7750.9
37.5°	7693.5	7746.1	7948.0	8041.1	7639.8	7092.7	6752.3	6753.5	6765.4	7414.0	7747.3
40°	8128.3	8184.5	8487.9	8730.3	8403.1	7705.5	7183.5	7035.4	7022.3	7593.2	7817.8
42.5°	8737.5	8787.7	9152.0	9461.4	9249.9	8490.3	7779.5	7470.2	7442.7	7944.4	8043.5
45°	9507.9	9550.9	9937.9	10268.8	10160.1	9386.1	8528.5	8068.6	8063.8	8529.7	8501.0
47.5°	10424.1	10457.5	10805.1	11125.2	11164.7	10416.9	9469.7	8991.9	8914.3	9332.4	9209.3
50°	11378.5	11415.5	11652.0	11996.0	12288.7	11796.5	10680.9	10123.1	10019.2	10391.8	10212.7
52.5°	12010.3	12059.3	12264.8	12700.7	13552.4	13308.7	12113.1	11494.3	11336.7	11675.9	11538.5
55°	11728.4	11838.3	12152.5	12851.2	14562.9	15618.8	13879.7	13093.7	12915.7	13197.6	13116.4
57.5°	10446.8	10597.3	11026.1	12104.7	14705.1	17654.2	16550.5	14977.4	14852.0	14770.8	14807.8
60°	8104.4	8249.0	8780.5	10186.4	13714.8	19140.1	20569.9	17299.4	17117.9	16349.8	16383.3
62.5°	5735.8	5663.0	6027.3	7055.7	11144.4	19314.5	25143.5	20405.0	19807.8	18017.3	17870.4
65°	4374.1	4357.4	4521.0	4848.3	6749.9	17227.8	27868.1	25624.9	24692.0	19978.6	19632.2
67.5°	3594.1	3564.3	3725.5	4202.1	4346.7	11114.5	27927.8	31680.8	30764.6	22420.1	21670.0
70°	2955.1	2921.7	3072.2	3687.3	4017.0	5636.7	23504.7	35227.2	35178.2	25511.4	23208.5
71°	2649.3	2625.4	2805.8	3489.0	3946.5	4697.8	20294.0	35236.7	35383.6	26557.7	23117.7
72.5°	2157.2	2165.6	2356.7	3105.6	3894.0	4148.4	14915.3	33594.3	33904.9	27555.1	22292.3
75°	1433.4	1440.5	1691.4	2388.9	3775.7	4058.8	8197.6	28189.4	28760.3	26957.9	20341.7
77.5°	962.7	960.3	1131.2	1638.8	3289.6	4058.8	4806.5	21083.5	21710.6	21450.2	15682.1
80°	662.9	658.2	778.8	1131.2	2490.5	4107.8	3716.0	14775.5	14965.4	11583.9	6373.7
82.5°	406.1	409.7	508.8	799.1	1694.9	3696.9	3508.1	8056.7	7850.0	3248.9	1592.2
85°	232.9	231.7	324.9	541.1	1088.2	3119.9	3420.9	3467.5	3180.9	978.3	575.7
87.5°	83.6	89.6	174.4	299.8	623.5	2172.7	2902.5	1803.6	1625.7	442.0	260.4
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°	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3	7925.3
2.5°	7915.7	7922.9	7914.5	7866.7	7826.1	7760.4	7723.4	7672.0	7656.5	7649.4	7668.5
5°	7945.6	7948.0	7877.5	7752.1	7611.1	7445.1	7325.7	7178.7	7109.5	7079.6	7098.7
7.5°	7973.1	7962.3	7808.2	7568.1	7307.7	7018.7	6761.9	6526.6	6389.2	6333.1	6337.8
10°	7976.6	7931.2	7684.0	7312.5	6908.8	6484.7	6090.6	5727.5	5498.1	5348.8	5394.2
12.5°	7939.6	7863.2	7501.2	6981.6	6421.4	5843.3	5310.6	4765.9	4438.6	4286.9	4291.7
15°	7910.9	7772.4	7276.7	6592.3	5839.7	5074.1	4346.7	3706.4	3357.6	3202.4	3129.5
17.5°	7887.1	7674.4	7016.3	6153.9	5152.9	4181.8	3307.5	2736.5	2545.4	2500.0	2480.9
20°	7853.6	7570.5	6726.0	5646.2	4370.5	3183.2	2415.2	2133.3	2134.5	2187.1	2194.2
22.5°	7807.0	7452.3	6416.7	5076.5	3530.8	2318.5	1893.2	1812.0	1894.4	1994.8	2012.7
25°	7737.7	7312.5	6072.7	4447.0	2692.3	1782.1	1617.3	1613.7	1714.1	1819.2	1834.7
27.5°	7639.8	7129.8	5690.4	3770.9	1984.0	1514.6	1448.9	1474.0	1548.0	1624.5	1630.4
30°	7508.4	6917.1	5268.8	3057.8	1555.2	1348.6	1341.4	1364.1	1409.5	1463.2	1468.0
32.5°	7363.9	6700.9	4818.5	2367.4	1331.8	1259.0	1266.1	1276.9	1298.4	1319.9	1324.7
35°	7232.5	6480.0	4357.4	1798.9	1225.5	1200.4	1195.7	1193.3	1195.7	1188.5	1189.7
37.5°	7147.7	6297.2	3877.2	1432.2	1164.6	1149.1	1134.7	1116.8	1096.5	1084.6	1087.0
40°	7116.6	6161.0	3391.1	1237.5	1114.4	1103.7	1076.2	1038.0	1014.1	1006.9	1006.9
42.5°	7200.2	6090.6	2921.7	1139.5	1072.6	1054.7	1009.3	965.1	947.2	946.0	944.8
45°	7455.8	6119.2	2474.9	1085.8	1034.4	999.8	940.0	903.0	891.1	893.5	892.3
47.5°	7914.5	6299.6	2092.7	1049.9	996.2	950.8	883.9	854.0	839.7	839.7	840.9
50°	8694.5	6721.3	1788.1	1020.1	963.9	905.4	843.3	806.3	787.2	786.0	786.0
52.5°	9830.4	7476.2	1598.2	995.0	928.1	864.8	802.7	756.1	733.4	728.6	726.2
55°	11254.2	8558.3	1545.6	978.3	880.3	820.6	753.7	707.1	682.0	671.3	670.1
57.5°	12846.5	9874.6	1649.6	958.0	831.3	768.0	700.0	655.8	629.5	616.3	615.1
60°	14457.8	11311.6	2073.6	929.3	790.7	710.7	645.0	604.4	578.1	563.8	561.4
62.5°	16071.5	12826.2	2939.6	926.9	762.1	655.8	588.9	554.2	529.1	513.6	510.0
65°	17891.9	14484.1	3923.8	990.2	752.5	605.6	531.5	504.1	482.6	468.2	467.0
67.5°	19982.2	16355.8	3829.5	1120.4	784.8	560.2	477.8	456.3	440.8	428.8	427.6
70°	20962.9	16063.2	2380.6	1212.4	830.2	516.0	426.4	410.9	399.0	390.6	387.0
71°	20552.0	15252.1	1996.0	1201.6	825.4	496.9	406.1	394.2	382.2	375.1	371.5
72.5°	19431.6	13909.5	1665.1	1118.0	771.6	462.3	379.8	367.9	357.1	348.8	346.4
75°	17436.8	12422.4	1333.0	893.5	615.1	390.6	333.3	320.1	311.8	307.0	302.2
77.5°	12817.8	8865.3	1030.8	705.9	452.7	318.9	284.3	274.7	266.4	259.2	255.6
80°	4910.4	3434.1	694.0	526.8	332.1	252.0	229.3	224.6	216.2	211.4	211.4
82.5°	1322.3	1026.0	370.3	318.9	222.2	183.9	175.6	173.2	166.0	156.5	157.7
85°	535.1	452.7	207.8	175.6	136.2	108.7	118.3	119.4	111.1	99.1	100.3
87.5°	235.3	192.3	115.9	77.6	59.7	41.8	53.8	53.8	49.0	40.6	37.0
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)