

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: P322543

Luminaire Tested: **GAN-SA9D-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44861 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

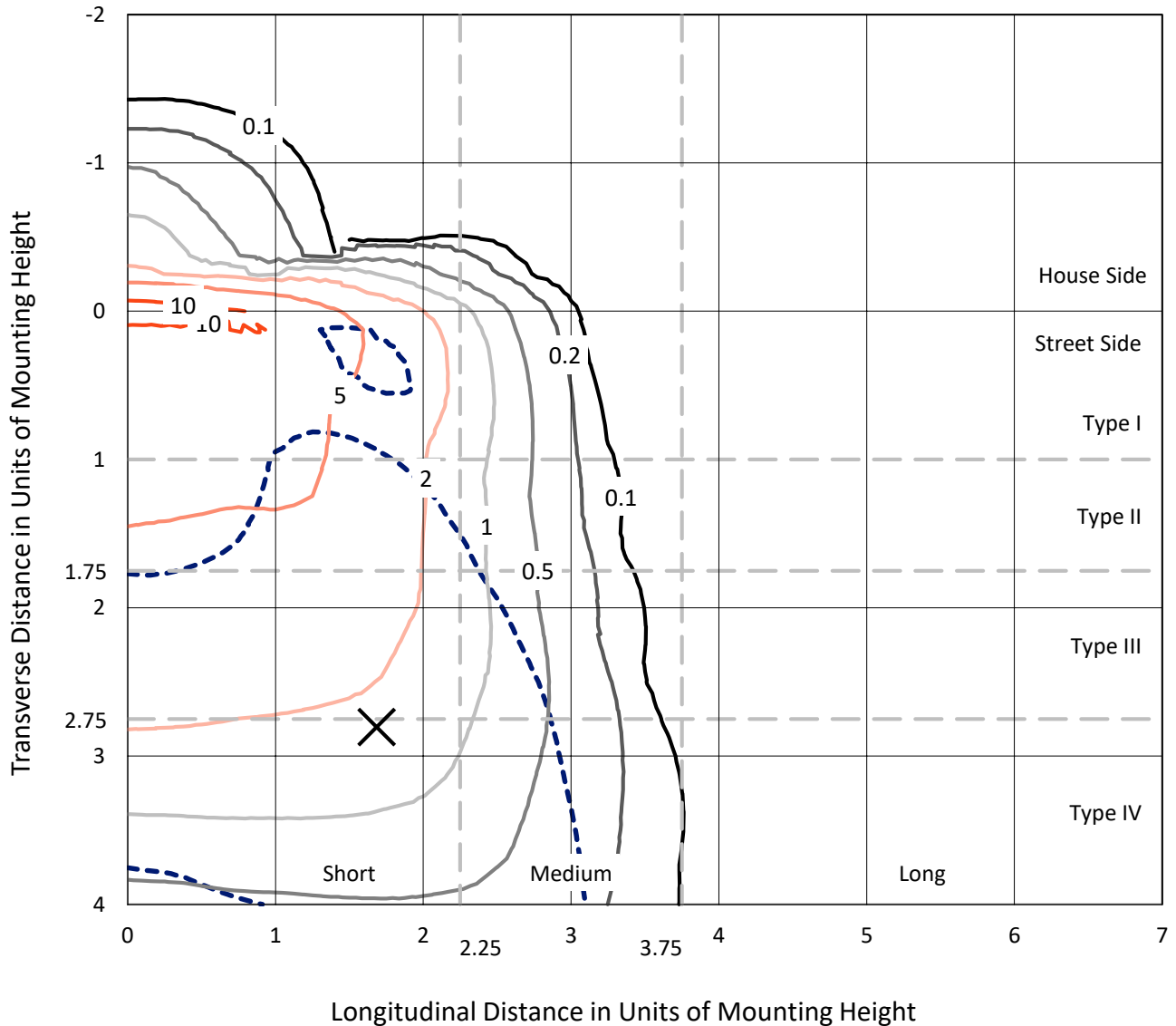
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

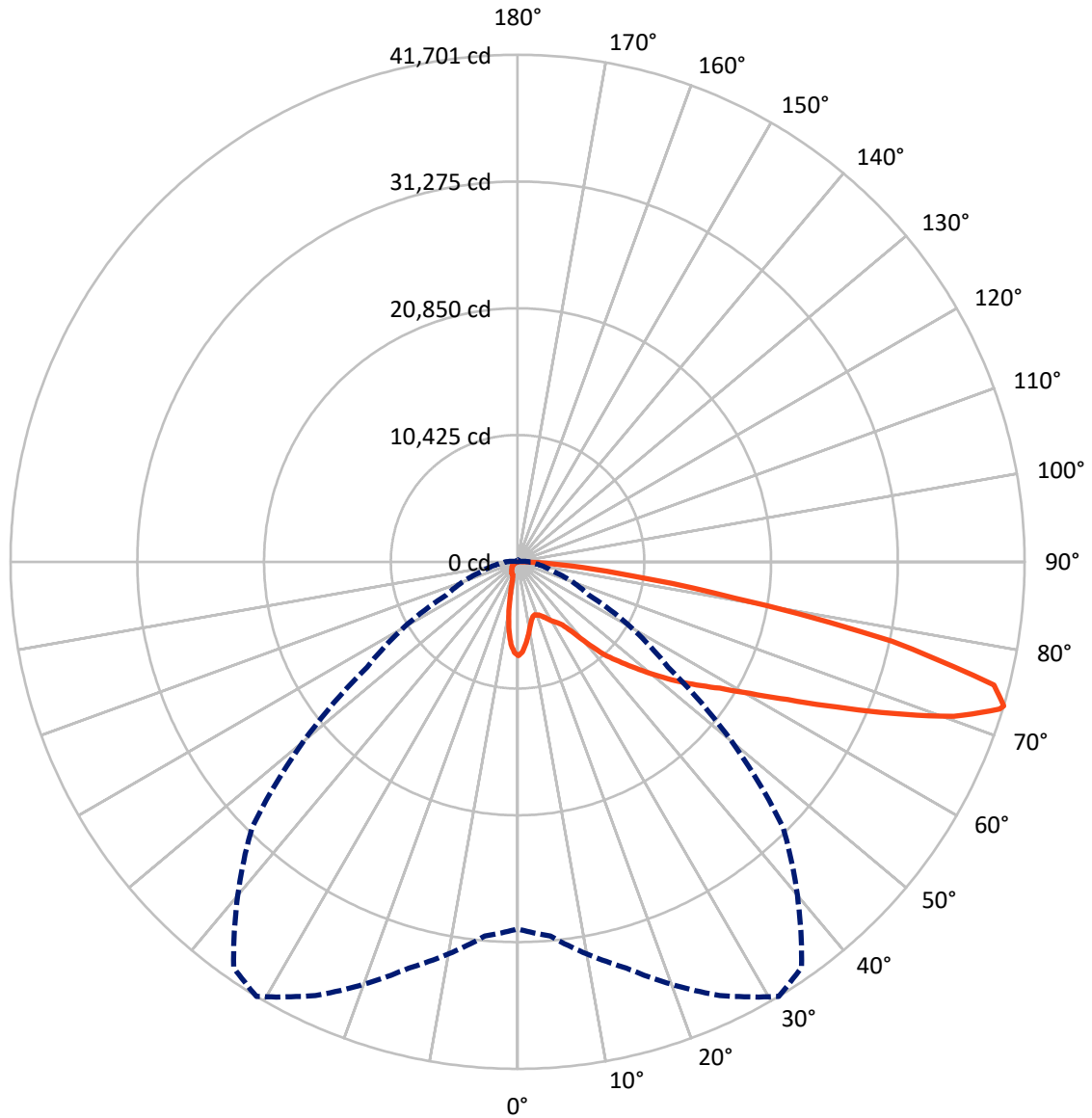
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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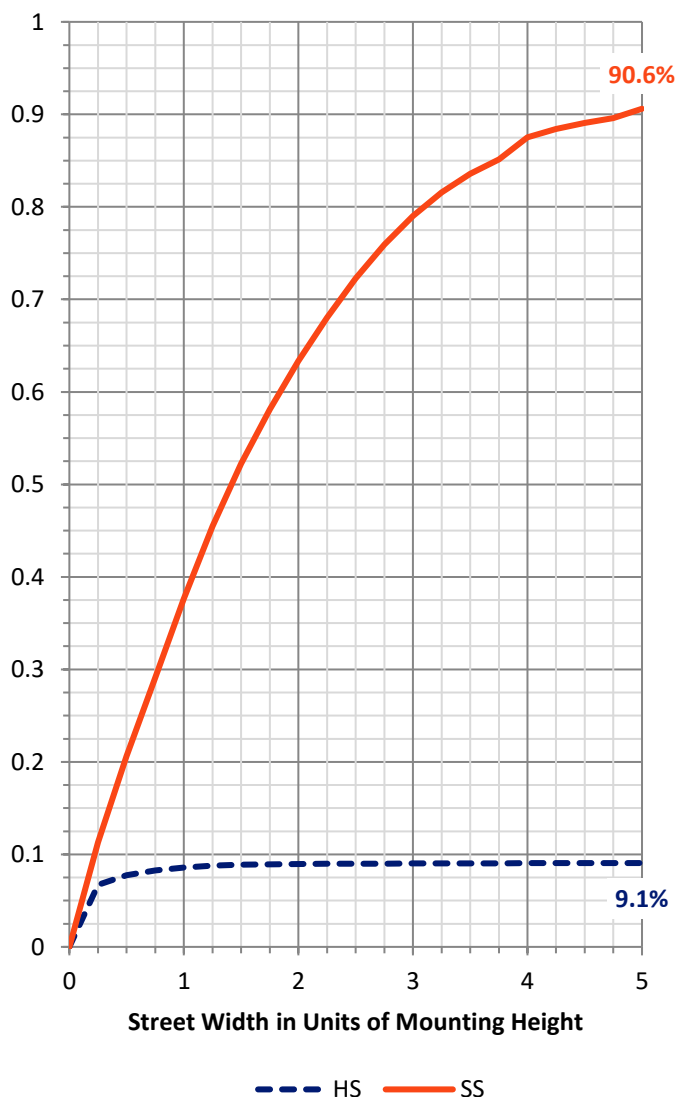
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4089.3	0.0	4089.3
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	40771.8	0.0	40771.8
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	44861.0	0.0	44861.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	640.0	1.4
10°-20°	1389.5	3.1
20°-30°	2081.9	4.6
30°-40°	3312.4	7.4
40°-50°	5915.0	13.2
50°-60°	9178.4	20.5
60°-70°	12201.4	27.2
70°-80°	9177.9	20.5
80°-90°	964.4	2.1
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°	44861.0	100.0
0°-180°	44861.0	100.0

**Coefficient of Utilization**

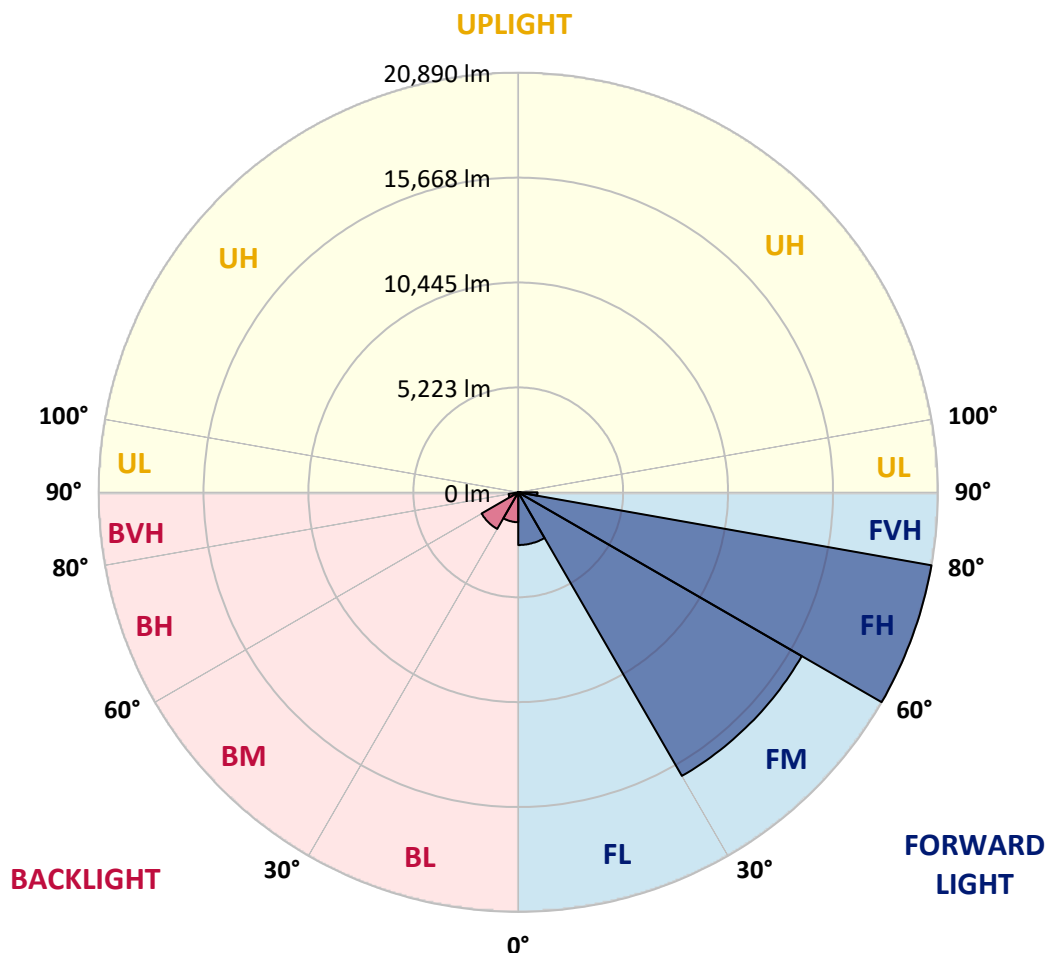


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2624.4	5.9			
FM (30°-60°)	16300.9	36.3			
FH (60°-80°)	20890.1	46.6			G5
FVH (80°-90°)	956.3	2.1			G5
BL (0°-30°)	1487.0	3.3	B3/2500		
BM (30°-60°)	2104.8	4.7	B2/2500		
BH (60°-80°)	489.3	1.1	B1/500		G1/500
BVH (80°-90°)	8.1	0.0			G0/10
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°	31°	35°	45°	55°	65°	75°	85°
0°	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4
2.5°	7314.5	7345.2	7378.2	7384.8	7439.6	7441.8	7520.9	7580.1	7639.4	7696.5	7716.2
5°	6563.7	6614.2	6673.5	6732.8	6849.1	6895.2	7088.4	7286.0	7474.8	7654.8	7742.6
7.5°	5762.5	5819.6	5903.0	6050.1	6179.6	6269.6	6574.7	6925.9	7277.2	7608.7	7799.7
10°	5031.5	5084.2	5172.0	5327.8	5527.6	5650.5	6061.0	6548.4	7064.2	7567.0	7885.3
12.5°	4566.1	4594.6	4642.9	4809.7	4989.8	5128.1	5611.0	6214.7	6888.6	7564.8	8023.6
15°	4480.5	4489.2	4449.7	4524.4	4664.9	4798.8	5288.3	5944.7	6754.7	7599.9	8203.6
17.5°	4616.6	4612.2	4480.5	4471.7	4583.6	4693.4	5130.3	5758.1	6660.3	7681.1	8436.3
20°	4822.9	4807.6	4579.2	4537.5	4656.1	4759.3	5119.3	5687.8	6625.2	7817.2	8719.5
22.5°	5097.3	5071.0	4713.2	4669.3	4796.6	4904.1	5255.4	5755.9	6655.9	7999.4	9048.7
25°	5437.6	5398.1	4943.7	4895.4	5024.9	5132.4	5499.0	5951.3	6748.1	8221.1	9465.8
27.5°	5821.7	5764.7	5312.5	5187.3	5334.4	5446.4	5823.9	6249.8	6893.0	8456.0	9977.3
30°	6184.0	6109.3	5701.0	5494.7	5674.7	5799.8	6175.2	6605.4	7125.7	8818.2	10677.6
32.5°	6548.4	6465.0	6047.9	5802.0	5964.4	6100.5	6537.4	7095.0	7562.6	9371.4	11608.4
35°	7386.9	7299.1	6787.6	6381.5	6379.3	6456.2	7044.5	7764.5	8139.9	10142.0	12719.2
37.5°	8798.5	8748.0	8260.6	7490.1	7283.8	7198.2	7736.0	8563.6	8969.7	11202.3	13972.6
40°	10343.9	10300.0	9753.4	9055.3	8741.4	8530.7	8728.2	9676.6	10142.0	12497.4	15252.5
42.5°	12089.1	11880.6	10905.9	10697.4	10416.4	10256.1	10078.3	11048.6	11582.0	13906.8	16521.3
45°	13674.1	13322.8	12058.4	11742.3	11678.6	11718.1	11816.9	12892.6	13202.1	15581.7	17785.7
47.5°	14618.0	14341.4	13371.1	13068.2	13050.6	13311.9	14058.2	14975.9	14815.6	17041.6	18898.7
50°	15515.9	15265.6	14460.0	14534.6	14615.8	14971.5	16602.5	17118.4	16288.6	18365.3	19919.5
52.5°	16242.5	15860.5	15439.0	15858.3	16257.9	16830.8	19228.0	19041.4	17333.5	19419.0	20793.2
55°	16661.8	16488.4	16692.5	17114.0	17864.8	18795.6	21706.4	20641.7	18097.5	20380.5	21374.9
57.5°	18198.5	17858.2	18264.3	18628.7	19607.8	20909.6	23829.2	21833.8	18648.5	20975.4	21508.9
60°	20057.8	19783.4	20022.7	20628.6	21950.1	23480.2	25813.7	22806.2	18936.0	21357.4	21162.0
62.5°	23017.0	22654.8	22505.5	23183.8	24935.6	26606.2	27319.6	23480.2	18872.4	21188.4	19972.2
65°	26981.6	26606.2	25938.8	26553.5	28781.7	29960.5	29003.4	23622.9	18433.3	19820.7	16964.7
67.5°	31042.7	30770.5	30199.8	31235.9	33246.8	33626.5	30783.7	23276.0	17019.6	16071.3	11986.0
70°	33725.3	33609.0	33980.0	36271.8	38065.3	37955.5	32417.0	21412.3	13265.8	9882.9	5929.3
72.5°	31791.3	32348.9	35088.5	39244.1	41435.0	40539.3	31578.4	16442.3	7582.3	3802.1	1714.5
73°	30188.8	30902.2	34590.2	39356.1	41700.6	40719.3	30873.7	15092.2	6462.8	3000.9	1299.6
75°	21001.8	21877.7	28636.8	36653.7	40458.1	38796.3	25734.7	9237.5	2994.3	1330.3	524.7
77.5°	10196.8	10844.4	15768.3	26483.2	31464.2	30311.7	16020.8	3442.1	1352.3	832.0	241.5
80°	3806.5	4232.4	6844.7	13478.7	18183.1	18659.5	7046.7	1301.8	900.0	669.5	122.9
82.5°	996.6	1110.8	2524.5	6010.5	9318.7	9753.4	2221.6	656.4	658.6	551.0	74.6
85°	318.3	364.4	788.1	2697.9	4390.5	3854.8	579.5	318.3	478.6	410.5	41.7
87.5°	39.5	50.5	250.3	634.4	968.1	537.8	90.0	94.4	204.2	228.3	24.1
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°	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4	7718.4
2.5°	7736.0	7725.0	7727.2	7670.1	7632.8	7558.2	7481.3	7446.2	7408.9	7393.5	7408.9
5°	7775.5	7755.7	7698.7	7523.1	7336.5	7095.0	6868.9	6697.6	6482.5	6423.2	6484.7
7.5°	7837.0	7797.5	7630.6	7272.8	6857.9	6396.9	5878.8	5501.2	5191.7	4992.0	5064.4
10°	7927.0	7852.3	7516.5	6908.4	6166.4	5349.8	4614.4	4041.4	3635.3	3468.5	3461.9
12.5°	8078.4	7937.9	7376.0	6434.2	5321.2	4232.4	3268.7	2647.4	2318.2	2105.2	2100.8
15°	8245.3	8038.9	7198.2	5865.7	4337.8	3031.6	2105.2	1633.3	1420.3	1352.3	1343.5
17.5°	8449.4	8155.3	6967.7	5165.4	3308.2	2008.6	1374.2	1238.1	1229.3	1222.7	1222.7
20°	8706.3	8293.6	6671.3	4364.1	2346.7	1341.3	1167.9	1176.6	1181.0	1172.3	1174.4
22.5°	9004.8	8434.1	6317.9	3503.6	1587.2	1121.8	1117.4	1128.3	1132.7	1128.3	1130.5
25°	9351.7	8596.5	5887.6	2601.3	1145.9	1064.7	1075.7	1091.0	1102.0	1102.0	1102.0
27.5°	9781.9	8794.1	5369.5	1815.5	990.0	1005.4	1036.1	1064.7	1080.1	1084.4	1084.4
30°	10341.7	9040.0	4748.3	1244.7	900.0	926.4	983.5	1038.3	1066.9	1071.3	1073.5
32.5°	11048.6	9316.6	4028.2	919.8	823.2	843.0	904.4	996.6	1051.5	1060.3	1060.3
35°	11858.6	9637.1	3253.3	801.3	768.3	774.9	823.2	928.6	1025.2	1049.3	1051.5
37.5°	12745.5	9953.2	2474.0	748.6	722.2	722.2	757.4	847.4	961.5	1036.1	1044.9
40°	13573.1	10144.2	1734.2	706.9	680.5	680.5	711.3	777.1	884.7	996.6	1020.8
42.5°	14337.0	10210.0	1207.4	667.3	641.0	647.6	673.9	726.6	807.8	919.8	941.8
45°	15122.9	10199.0	880.3	621.2	601.5	621.2	641.0	680.5	739.8	803.5	807.8
47.5°	15715.6	10106.8	698.1	577.3	564.2	590.5	608.1	634.4	667.3	663.0	663.0
50°	16271.0	9882.9	562.0	518.1	526.9	557.6	566.4	575.2	577.3	535.6	531.2
52.5°	16692.5	9533.9	450.0	454.4	489.5	520.3	511.5	498.3	476.4	425.9	417.1
55°	16833.0	8862.1	353.4	375.4	434.7	474.2	441.2	412.7	371.0	329.3	320.5
57.5°	16578.4	7995.0	287.6	292.0	366.6	399.5	362.2	329.3	283.2	248.1	241.5
60°	16038.3	7031.3	237.1	219.5	283.2	311.7	287.6	254.6	212.9	186.6	184.4
62.5°	14967.1	6004.0	195.4	171.2	215.1	239.3	223.9	199.8	164.6	147.1	144.9
65°	12714.8	4803.2	158.1	138.3	166.8	186.6	173.4	155.9	129.5	116.3	114.2
67.5°	8875.3	3246.7	129.5	114.2	131.7	147.1	136.1	127.3	103.2	101.0	103.2
70°	4280.7	1565.2	107.6	92.2	103.2	114.2	109.8	103.2	98.8	114.2	131.7
72.5°	1227.1	524.7	85.6	76.8	83.4	90.0	94.4	92.2	107.6	138.3	160.3
73°	943.9	423.7	81.2	72.4	79.0	87.8	92.2	90.0	109.8	140.5	160.3
75°	403.9	204.2	61.5	59.3	65.9	76.8	81.2	81.2	109.8	142.7	153.7
77.5°	182.2	109.8	39.5	46.1	57.1	61.5	68.1	68.1	87.8	109.8	109.8
80°	103.2	59.3	30.7	35.1	41.7	41.7	41.7	37.3	39.5	43.9	48.3
82.5°	65.9	39.5	24.1	28.5	26.3	22.0	17.6	17.6	15.4	17.6	22.0
85°	37.3	22.0	22.0	17.6	11.0	8.8	11.0	8.8	2.2	0.0	2.2
87.5°	22.0	13.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)