

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: P321579

Luminaire Tested: **GAN-SA5D-730-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5D-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27161 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

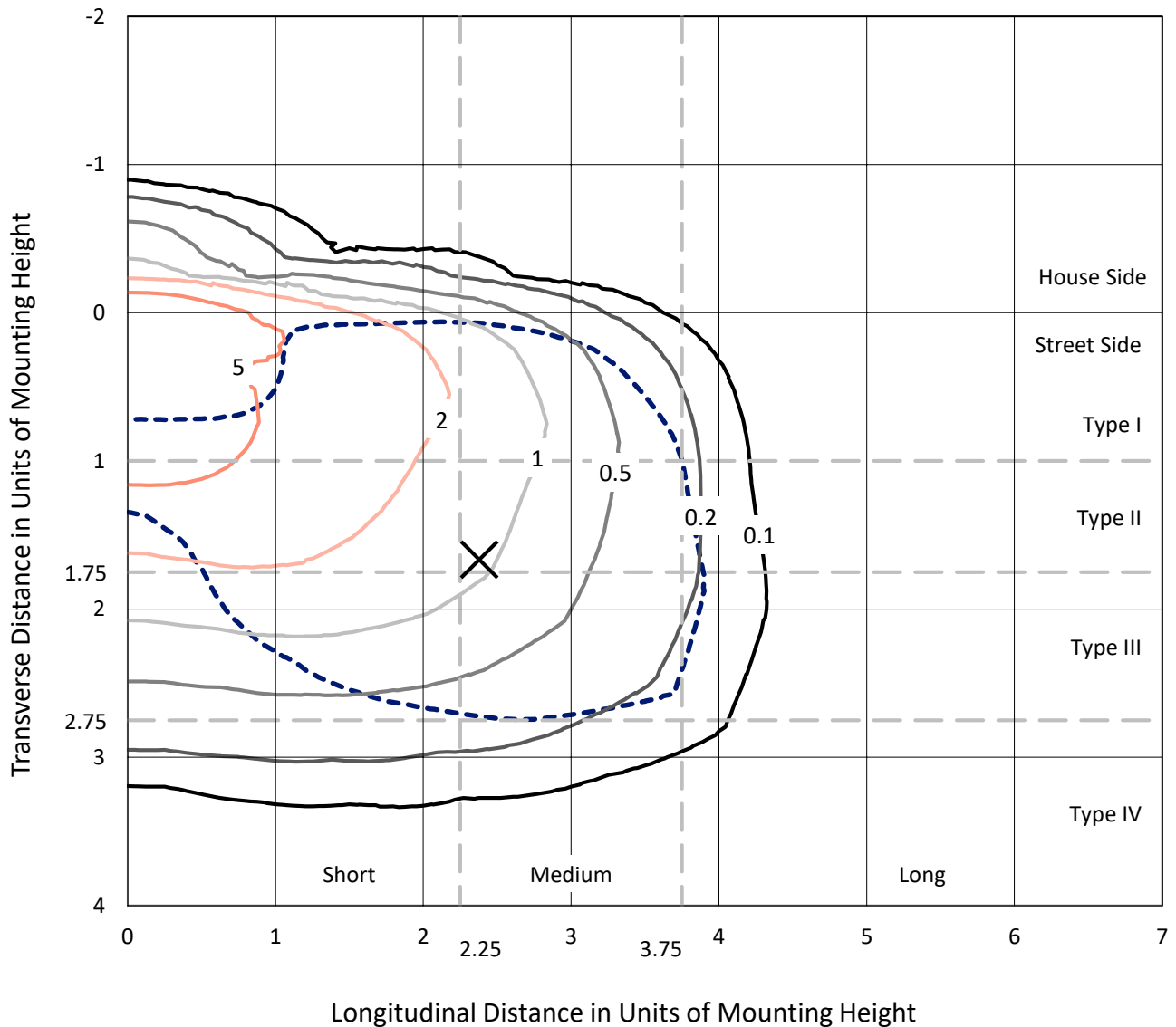
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

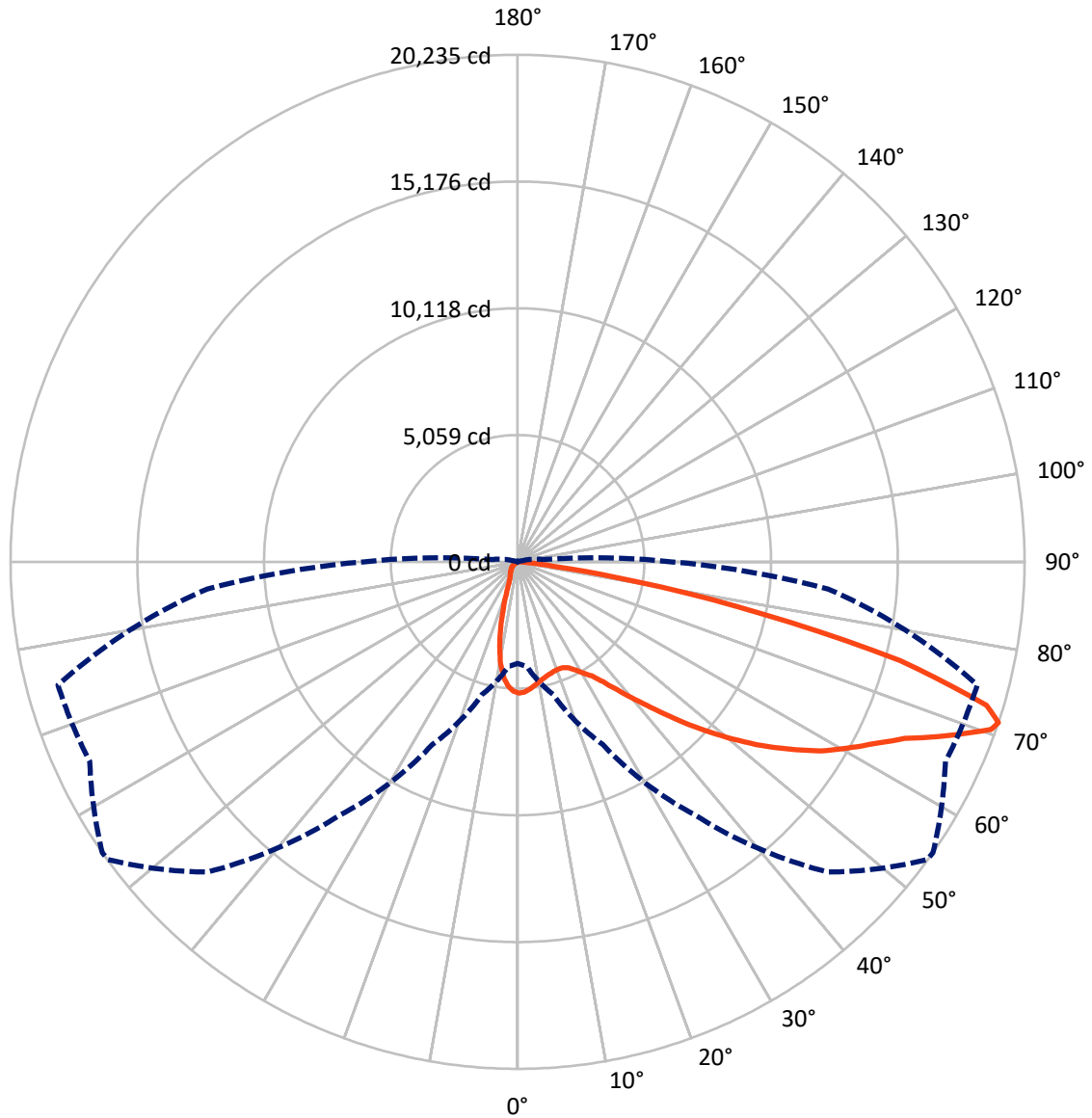
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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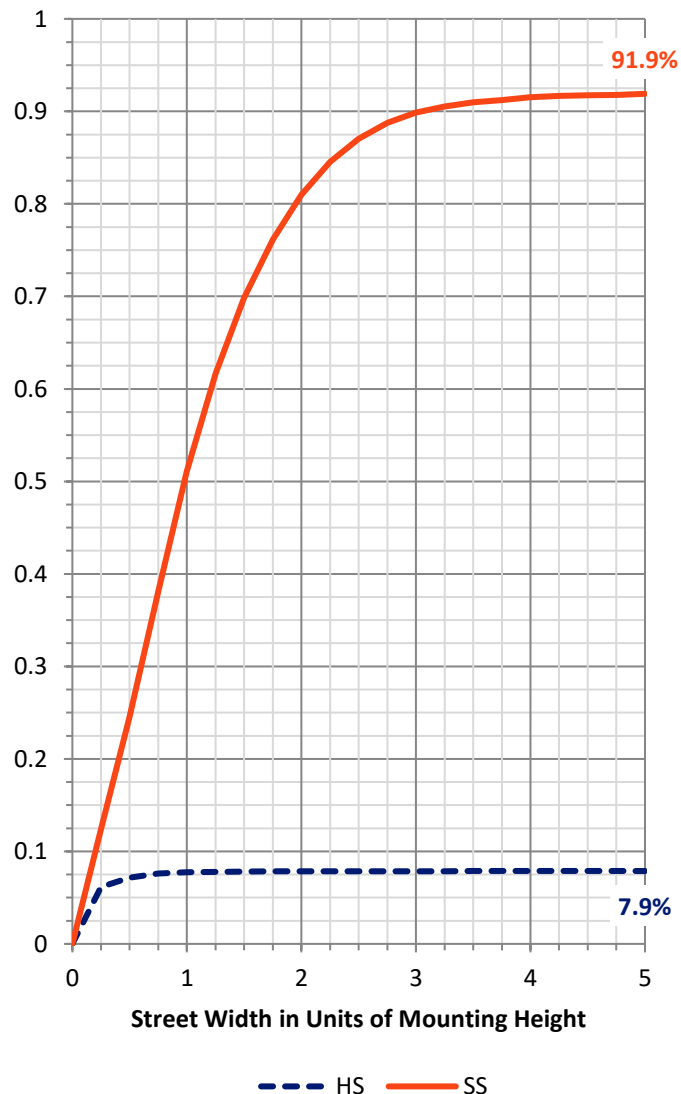
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2150.4	0.0	2150.4
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	25010.6	0.0	25010.6
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	27161.0	0.0	27161.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.6	1.6
10°-20°	1008.3	3.7
20°-30°	1620.3	6.0
30°-40°	2753.0	10.1
40°-50°	4273.0	15.7
50°-60°	5745.0	21.2
60°-70°	7028.0	25.9
70°-80°	4109.1	15.1
80°-90°	177.6	0.7
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°	27161.0	100.0
0°-180°	27161.0	100.0

**Coefficient of Utilization**

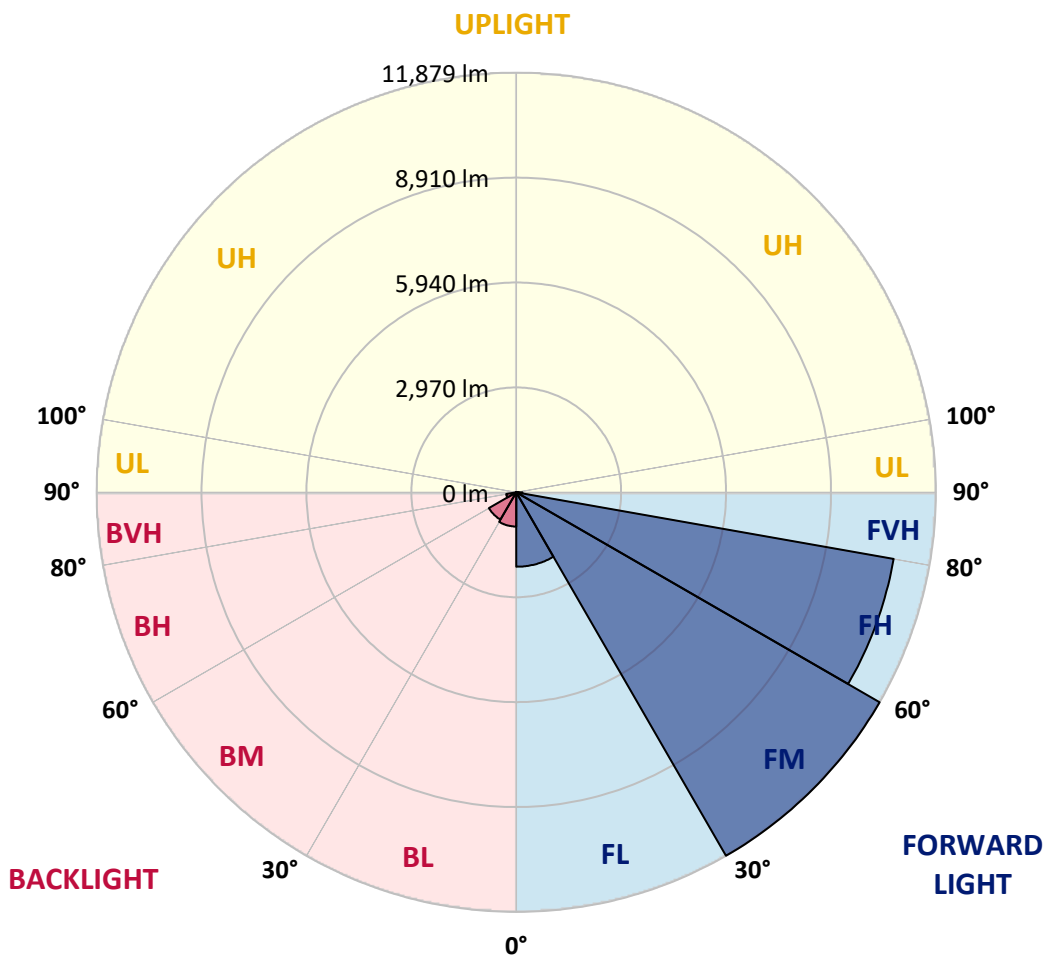


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.3	7.8			
FM (30°-60°)	11879.4	43.7			
FH (60°-80°)	10849.0	39.9			G4/12000
FVH (80°-90°)	174.8	0.6			G2/225
BL (0°-30°)	967.9	3.6	B2/1000		
BM (30°-60°)	891.6	3.3	B1/1000		
BH (60°-80°)	288.1	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1
2.5°	5084.4	5090.5	5112.5	5122.2	5145.4	5184.4	5203.9	5205.2	5236.9	5249.1	5258.8
5°	4724.7	4761.2	4797.8	4836.9	4907.6	5001.5	5094.2	5102.7	5205.2	5280.8	5321.0
7.5°	4414.9	4447.8	4491.7	4553.9	4653.9	4801.5	4956.4	4974.7	5168.6	5340.5	5430.8
10°	4096.6	4123.4	4186.8	4278.3	4416.1	4613.7	4822.2	4852.7	5135.7	5421.0	5579.6
12.5°	3756.3	3772.2	3849.0	3980.7	4183.2	4434.4	4708.8	4749.0	5114.9	5513.7	5755.2
15°	3497.8	3505.1	3578.2	3714.8	3946.6	4273.4	4621.0	4669.8	5119.8	5624.7	5946.7
17.5°	3431.9	3435.6	3474.6	3568.5	3773.4	4129.5	4551.5	4611.2	5134.4	5733.2	6139.4
20°	3699.0	3673.4	3633.1	3618.5	3706.3	4042.9	4510.0	4577.1	5153.9	5829.6	6312.5
22.5°	4432.0	4356.3	4189.3	3966.1	3830.7	4049.0	4521.0	4588.1	5216.1	5947.9	6512.6
25°	5519.8	5414.9	5130.8	4691.7	4269.7	4224.6	4612.5	4680.7	5336.9	6089.4	6704.0
27.5°	6757.7	6654.0	6306.4	5679.6	4960.0	4572.2	4822.2	4885.6	5516.2	6215.0	6850.4
30°	7943.1	7913.9	7504.1	6791.8	5828.4	5135.7	5093.0	5146.6	5649.1	6290.6	6966.2
32.5°	8948.1	8901.7	8572.4	7879.7	6822.3	5812.5	5411.3	5427.1	5749.1	6388.2	7117.5
35°	9879.8	9822.5	9533.5	8878.5	7841.9	6639.4	5901.5	5878.4	5967.4	6584.5	7337.0
37.5°	10693.3	10745.7	10425.0	9801.8	8756.6	7499.2	6562.6	6493.0	6308.9	6904.0	7655.3
40°	11373.8	11373.8	11206.7	10687.2	9744.4	8388.3	7310.2	7218.7	6822.3	7396.8	8059.0
42.5°	11618.9	11671.4	11733.6	11439.7	10628.6	9312.7	8143.1	8048.0	7545.5	8095.6	8568.8
45°	11633.6	11716.5	12034.8	12033.6	11427.5	10231.1	9082.2	9037.1	8472.4	8993.2	9200.5
47.5°	11427.5	11531.1	12055.5	12353.1	12060.4	11086.0	10109.1	10053.0	9561.5	10093.2	9861.5
50°	11109.2	11223.8	11833.6	12478.7	12490.9	11829.9	11190.9	11106.7	10760.4	11350.6	10544.5
52.5°	10539.6	10761.6	11634.8	12508.0	12773.9	12472.6	12220.2	12183.6	12101.9	12561.7	11088.4
55°	9321.3	9567.6	11136.0	12517.8	13036.1	13042.2	13184.9	13194.6	13359.3	13693.4	11493.3
57.5°	8745.6	8884.6	10265.2	12564.1	13425.1	13688.6	14167.9	14243.5	14498.4	14767.9	11955.5
60°	8383.4	8548.0	9835.9	12500.7	14036.1	14536.2	15078.9	15104.5	15377.7	15876.5	12581.2
62.5°	8094.4	8256.6	9565.2	12256.8	14722.8	15555.7	15969.2	15971.6	16176.5	17197.3	13292.2
65°	7380.9	7517.5	9017.6	11982.4	15176.5	16564.3	17003.4	16987.5	17154.6	18590.1	14117.9
67.5°	6349.1	6454.0	7899.2	10942.1	15005.7	17481.5	18564.4	18512.0	18309.6	19793.8	14442.3
70°	4908.8	4946.6	6226.0	9118.8	13405.6	17833.9	20073.1	20046.2	19018.1	19577.9	13253.2
71°	4057.5	4181.9	5486.9	8048.0	12333.6	17508.3	20219.4	20235.3	18840.1	18990.1	12434.8
72.5°	2356.2	2462.3	3977.1	6180.8	10471.3	16149.7	19460.8	19575.5	18008.3	17272.9	10621.3
75°	504.9	540.3	1474.5	2991.6	5760.1	11318.9	15360.6	15769.2	14677.6	11750.7	6401.6
77.5°	351.2	379.3	631.7	1357.4	1903.8	5593.0	9542.0	10003.0	8768.8	4416.1	2048.9
80°	278.1	309.8	492.7	670.8	514.7	1803.8	4469.8	4751.5	2924.6	985.4	345.1
82.5°	154.9	184.2	384.2	362.2	197.6	342.7	1251.3	1414.7	585.4	198.8	81.7
85°	45.1	54.9	247.6	263.4	84.2	65.9	213.4	264.6	111.0	52.4	36.6
87.5°	0.0	0.0	119.5	101.2	24.4	9.8	19.5	22.0	22.0	22.0	24.4
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°	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1	5238.1
2.5°	5258.8	5267.4	5236.9	5196.6	5153.9	5101.5	5046.6	5003.9	5002.7	4982.0	4961.3
5°	5323.5	5318.6	5234.4	5106.4	4955.2	4797.8	4647.8	4478.3	4422.2	4352.7	4329.5
7.5°	5443.0	5408.8	5230.8	4950.3	4618.5	4289.3	3949.0	3606.3	3459.9	3328.2	3305.1
10°	5593.0	5528.4	5207.6	4716.1	4107.5	3500.2	2986.8	2520.9	2316.0	2158.7	2151.3
12.5°	5749.1	5650.3	5143.0	4362.4	3438.0	2584.3	1992.8	1534.2	1363.5	1253.7	1263.5
15°	5912.5	5765.0	5003.9	3885.6	2675.8	1753.8	1224.5	954.9	886.6	858.6	865.9
17.5°	6079.6	5844.2	4810.0	3311.2	1923.3	1131.8	847.6	772.0	772.0	778.1	780.5
20°	6224.7	5886.9	4524.6	2667.2	1303.7	824.4	741.5	730.5	736.6	746.4	747.6
22.5°	6368.6	5889.4	4152.7	2014.7	912.2	722.0	706.1	701.3	704.9	715.9	717.1
25°	6485.7	5860.1	3686.8	1433.0	728.1	680.5	673.2	670.8	673.2	686.6	686.6
27.5°	6533.3	5754.0	3118.5	1007.4	652.5	634.2	631.7	634.2	637.8	647.6	648.8
30°	6538.2	5568.6	2498.9	729.3	591.5	572.0	576.9	585.4	581.7	579.3	581.7
32.5°	6550.4	5354.0	1895.2	600.0	540.3	509.8	503.7	503.7	489.1	480.5	475.6
35°	6590.6	5101.5	1374.5	539.1	487.8	452.5	429.3	402.5	374.4	359.8	356.1
37.5°	6654.0	4836.9	984.2	498.8	441.5	401.2	357.3	309.8	269.5	258.6	258.6
40°	6769.9	4563.7	728.1	467.1	404.9	354.9	289.0	226.8	190.3	184.2	184.2
42.5°	6952.8	4275.8	580.5	439.0	373.2	307.3	220.7	164.6	137.8	134.2	132.9
45°	7143.1	3958.8	507.3	412.2	339.0	252.5	163.4	122.0	106.1	102.4	102.4
47.5°	7333.3	3620.9	472.0	386.6	306.1	196.4	122.0	96.3	89.0	89.0	90.2
50°	7494.3	3268.5	446.4	358.6	263.4	148.8	96.3	81.7	79.3	84.2	85.4
52.5°	7534.6	2922.1	414.7	323.2	211.0	113.4	79.3	72.0	72.0	72.0	72.0
55°	7510.2	2653.8	373.2	279.3	156.1	90.2	68.3	63.4	62.2	62.2	62.2
57.5°	7593.1	2495.3	298.8	217.1	112.2	73.2	59.8	56.1	53.7	52.4	52.4
60°	7760.2	2391.6	213.4	156.1	84.2	61.0	51.2	47.6	43.9	41.5	41.5
62.5°	7982.2	2301.3	158.5	115.9	64.6	48.8	42.7	39.0	34.1	31.7	31.7
65°	8152.9	2140.4	120.7	86.6	48.8	39.0	32.9	31.7	24.4	22.0	20.7
67.5°	7891.9	1786.7	97.6	63.4	36.6	30.5	25.6	24.4	14.6	12.2	12.2
70°	6768.7	1244.0	78.1	46.3	26.8	24.4	20.7	15.9	11.0	9.8	9.8
71°	6138.1	1039.1	70.7	39.0	23.2	23.2	19.5	13.4	9.8	8.5	8.5
72.5°	5099.1	737.8	59.8	30.5	20.7	24.4	20.7	12.2	9.8	8.5	7.3
75°	2959.9	308.6	41.5	20.7	15.9	29.3	26.8	11.0	7.3	6.1	6.1
77.5°	890.3	113.4	23.2	13.4	12.2	25.6	30.5	9.8	3.7	1.2	1.2
80°	162.2	48.8	14.6	8.5	8.5	15.9	23.2	4.9	0.0	0.0	0.0
82.5°	57.3	24.4	8.5	4.9	3.7	7.3	11.0	0.0	0.0	0.0	0.0
85°	32.9	17.1	4.9	2.4	0.0	1.2	2.4	0.0	0.0	0.0	0.0
87.5°	22.0	4.9	0.0	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)