

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: P522936

Luminaire Tested: **GLAN-SA9D-830-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-830-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55769 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

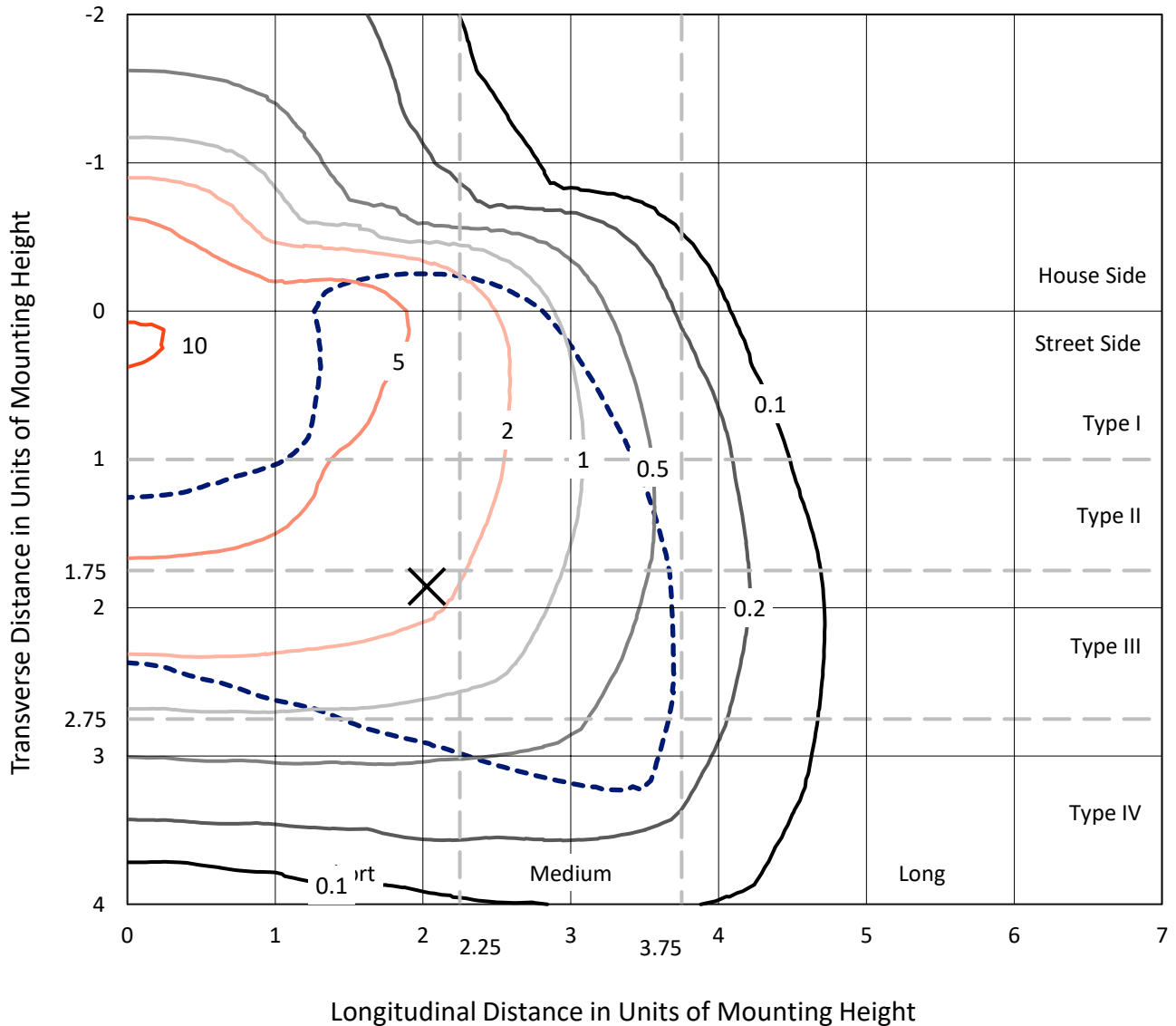
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

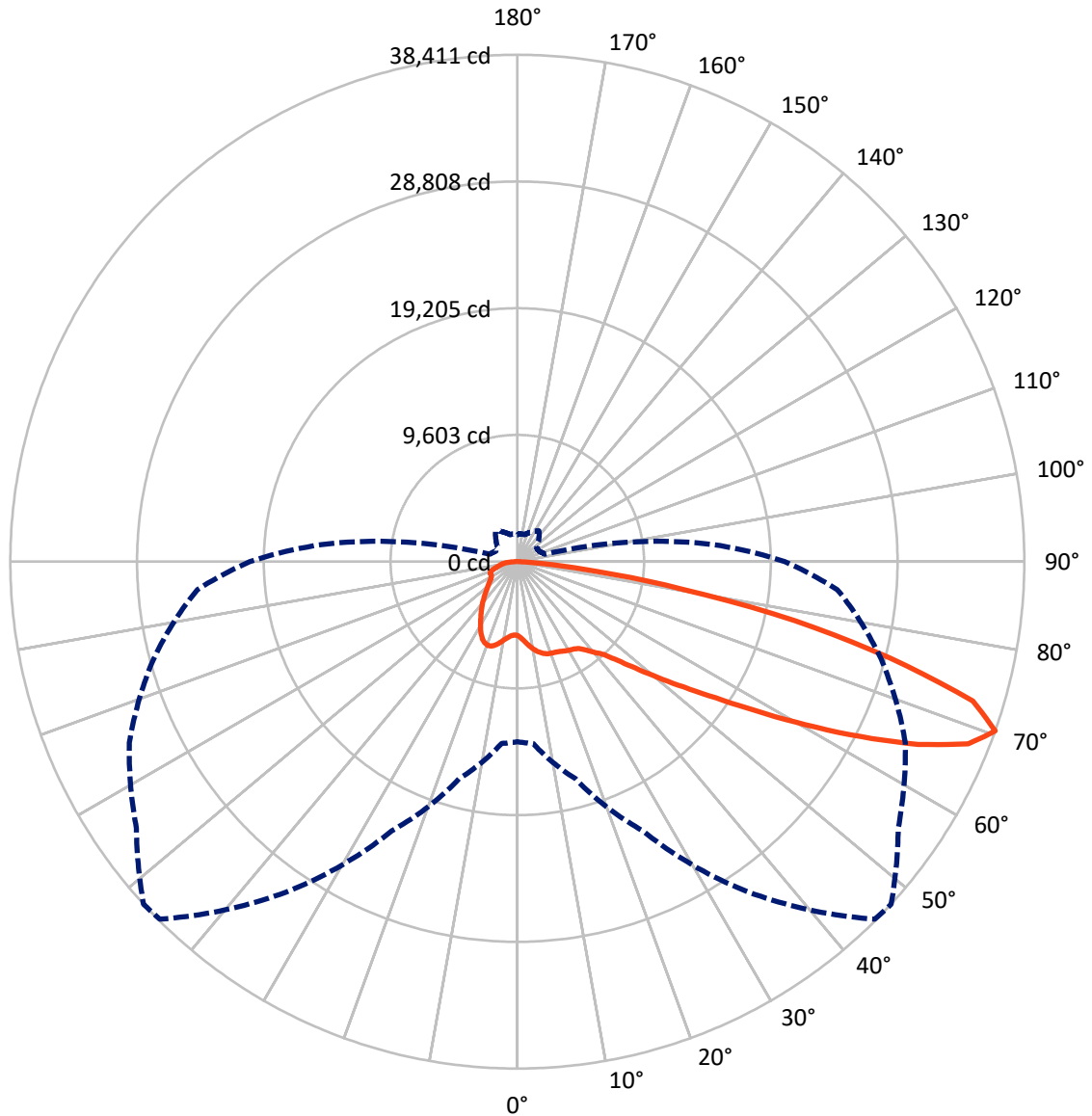
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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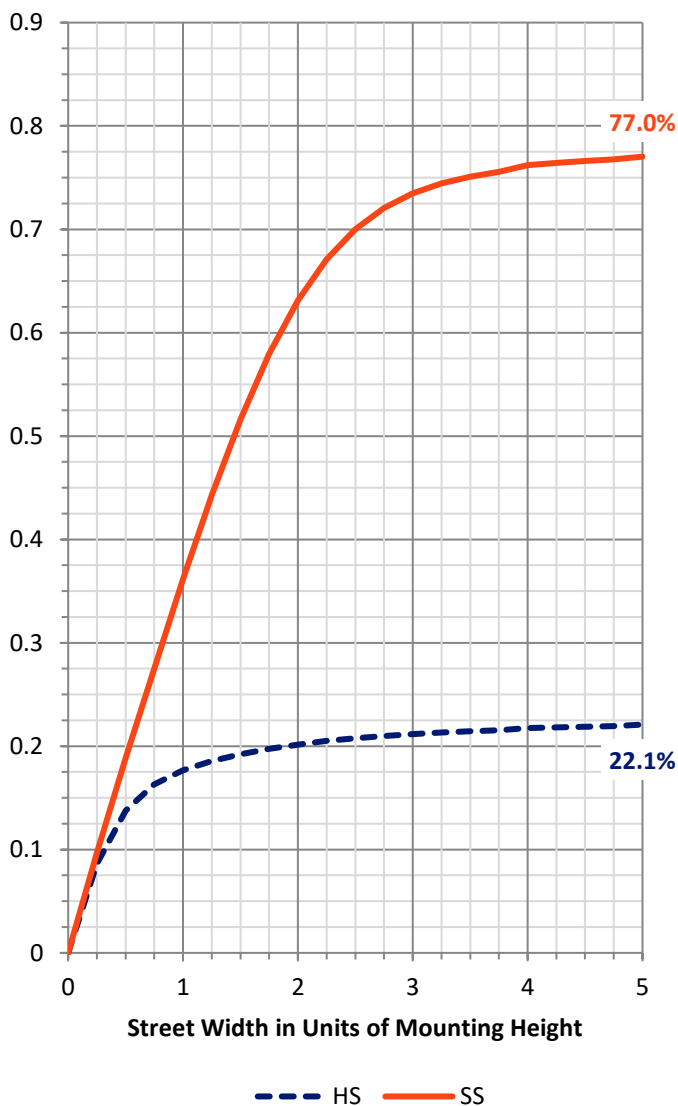
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12627.2	0.0	12627.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	43141.8	0.0	43141.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	55769.0	0.0	55769.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.1	1.0
10°-20°	1929.3	3.5
20°-30°	3208.3	5.8
30°-40°	4547.3	8.2
40°-50°	6712.9	12.0
50°-60°	11627.0	20.8
60°-70°	16423.4	29.4
70°-80°	9441.1	16.9
80°-90°	1302.6	2.3
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°	55769.0	100.0
0°-180°	55769.0	100.0

**Coefficient of Utilization**



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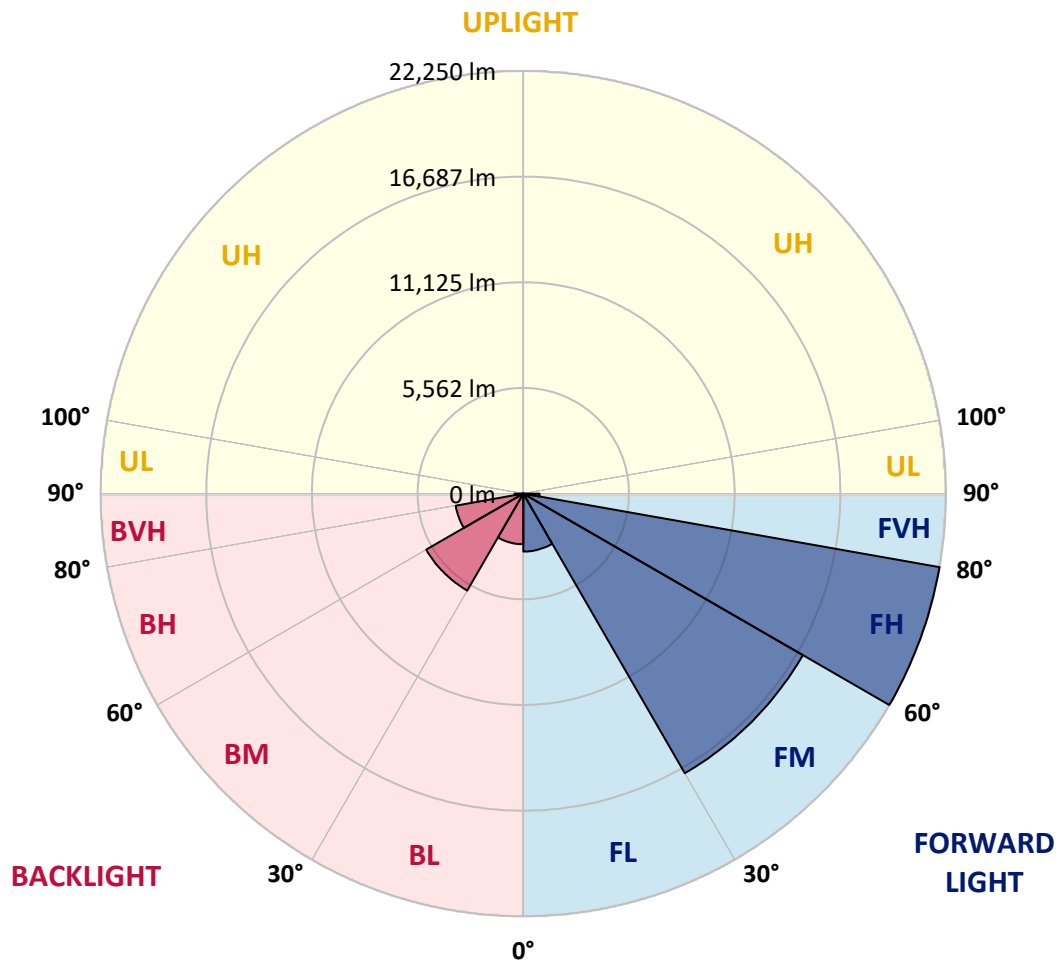
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3049.7	5.5			
FM	(30°-60°)	16991.7	30.5			
FH	(60°-80°)	22249.5	39.9			G5
FVH	(80°-90°)	850.9	1.5			G5
BL	(0°-30°)	2665.1	4.8	B4/5000		
BM	(30°-60°)	5895.4	10.6	B4/8500		
BH	(60°-80°)	3615.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	451.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5
2.5°	5959.6	5938.7	5935.8	5891.0	5867.1	5822.4	5804.5	5762.7	5711.9	5661.2	5613.5
5°	6428.2	6428.2	6407.3	6344.6	6246.1	6144.7	6099.9	6019.3	5876.1	5759.7	5661.2
7.5°	6908.6	6914.6	6872.8	6780.3	6640.1	6475.9	6434.1	6314.8	6111.8	5941.7	5795.5
10°	7323.5	7323.5	7266.8	7141.4	6965.3	6786.3	6744.5	6610.2	6383.4	6171.5	5980.5
12.5°	7639.8	7639.8	7565.2	7401.1	7210.1	7048.9	7001.2	6872.8	6660.9	6425.2	6183.5
15°	7845.7	7830.8	7747.2	7562.2	7377.2	7236.9	7204.1	7096.7	6902.7	6663.9	6392.4
17.5°	7854.7	7848.7	7768.1	7612.9	7451.8	7356.3	7335.4	7263.8	7111.6	6884.8	6598.3
20°	7681.6	7693.5	7639.8	7529.4	7451.8	7410.0	7401.1	7377.2	7269.7	7057.9	6771.4
22.5°	7496.5	7517.4	7466.7	7407.0	7401.1	7442.8	7448.8	7454.8	7386.1	7180.2	6917.6
25°	7451.8	7466.7	7416.0	7362.3	7395.1	7505.5	7529.4	7553.2	7499.5	7326.4	7090.7
27.5°	7678.6	7666.7	7568.2	7451.8	7472.7	7621.9	7654.7	7681.6	7654.7	7505.5	7305.6
30°	8320.2	8281.4	8084.5	7744.2	7636.8	7741.3	7774.1	7848.7	7848.7	7738.3	7538.3
32.5°	9394.6	9320.0	8958.9	8290.4	7917.3	7854.7	7887.5	8009.8	8072.5	7986.0	7768.1
35°	10698.7	10621.1	10104.8	9206.5	8430.6	8081.5	8072.5	8209.8	8376.9	8182.9	7899.4
37.5°	12008.8	11928.2	11307.5	10298.8	9179.7	8559.0	8505.2	8553.0	8624.6	8269.5	8081.5
40°	13318.9	13223.4	12680.3	11519.4	10095.9	9191.6	9051.4	8836.5	8806.7	8553.0	8433.6
42.5°	14617.1	14530.5	14256.0	12889.2	11194.1	9809.4	9594.5	9224.5	9337.9	9185.7	9081.2
45°	15927.2	15933.1	15640.7	14426.1	12519.1	10949.4	10659.9	10080.9	10349.5	10292.8	10352.5
47.5°	17088.1	17073.1	16968.7	15918.2	14163.5	12417.6	12044.6	11373.1	11832.7	12041.6	12498.2
50°	18213.1	18204.2	18210.2	17610.3	16073.4	14163.5	13751.6	13047.3	14082.9	14808.1	15625.8
52.5°	19824.7	19875.4	19514.3	19356.1	18395.2	16225.6	15772.0	15043.8	16741.9	17884.9	19481.5
55°	21442.2	21400.4	21116.9	21281.0	20824.4	18666.8	18192.3	17613.3	19702.3	20952.7	23352.1
57.5°	22394.1	22409.1	22698.5	23501.3	23823.6	21710.7	21281.0	20833.4	23029.8	23916.1	26796.0
60°	23250.6	23319.3	24151.9	25667.9	26542.3	25450.1	25068.1	24632.4	26082.7	26434.9	29786.2
62.5°	23519.2	23731.1	25184.5	27452.5	29192.4	29669.9	29195.4	28234.4	28989.4	28852.2	31812.6
65°	22179.3	22468.8	25074.0	28121.0	31558.9	33674.8	33373.4	31588.8	31466.4	30639.8	32143.8
67.5°	18651.8	18941.3	22286.7	26718.4	32537.8	37142.5	36841.1	34035.9	32970.5	30806.9	29637.0
70°	13647.2	13829.2	17028.4	22495.6	30571.1	38306.4	38410.9	35229.6	32433.3	28535.8	24333.9
72.5°	7863.6	8266.5	10507.7	15825.7	24975.6	35363.9	36089.1	32746.7	29037.2	23805.7	17013.5
75°	3381.2	3390.2	4858.4	8729.1	16915.0	28425.4	29126.7	27145.1	22803.0	16461.4	9084.2
77.5°	1608.5	1638.4	2136.8	3897.5	9311.0	19639.6	21531.7	19177.1	14584.2	7908.4	3431.9
80°	1044.5	1065.4	1307.1	1933.8	4566.0	11388.1	12707.1	11062.8	6434.1	2826.1	1480.2
82.5°	632.7	638.6	874.4	1181.8	2512.8	5156.9	6079.0	4801.7	2745.6	1692.1	871.4
85°	385.0	388.0	531.2	731.2	1525.0	1781.6	1829.4	1814.5	1611.5	1107.2	465.5
87.5°	185.0	191.0	274.6	346.2	599.8	552.1	522.3	605.8	761.0	596.9	199.9
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°	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5
2.5°	5592.6	5583.6	5562.7	5553.8	5547.8	5550.8	5547.8	5547.8	5550.8	5550.8	5550.8
5°	5619.4	5604.5	5571.7	5571.7	5589.6	5631.4	5670.2	5700.0	5732.8	5729.8	5729.8
7.5°	5735.8	5709.0	5670.2	5682.1	5726.9	5792.5	5861.2	5926.8	5992.5	5998.4	5995.4
10°	5905.9	5879.1	5837.3	5852.2	5923.8	6022.3	6108.9	6204.3	6276.0	6296.9	6290.9
12.5°	6099.9	6046.2	6010.4	6052.1	6165.6	6296.9	6380.4	6452.0	6502.8	6532.6	6520.7
15°	6296.9	6246.1	6204.3	6290.9	6428.2	6550.5	6592.3	6604.2	6613.2	6643.0	6637.1
17.5°	6487.9	6419.2	6404.3	6517.7	6649.0	6702.7	6678.9	6628.1	6589.3	6613.2	6610.2
20°	6658.0	6604.2	6598.3	6711.7	6762.4	6711.7	6610.2	6520.7	6452.0	6458.0	6455.0
22.5°	6819.1	6777.3	6783.3	6831.1	6750.5	6577.4	6410.3	6287.9	6213.3	6228.2	6237.2
25°	6998.2	6956.4	6971.3	6893.7	6628.1	6326.7	6085.0	5980.5	5950.7	5980.5	6001.4
27.5°	7230.9	7204.1	7195.1	6896.7	6410.3	5956.7	5682.1	5643.3	5670.2	5735.8	5768.6
30°	7481.6	7481.6	7433.9	6846.0	6111.8	5512.0	5273.2	5279.2	5371.7	5464.2	5497.1
32.5°	7723.4	7774.1	7624.9	6708.7	5726.9	5079.3	4897.2	4903.2	4983.8	5097.2	5127.0
35°	7923.3	8069.5	7789.0	6458.0	5273.2	4715.2	4577.9	4497.3	4500.3	4586.9	4610.7
37.5°	8197.9	8469.4	7884.5	6085.0	4789.8	4404.8	4249.6	4109.4	4016.9	3981.0	3981.0
40°	8675.3	9075.2	7908.4	5532.9	4333.2	4109.4	3888.5	3721.4	3542.4	3381.2	3351.4
42.5°	9484.1	9988.4	7860.6	4897.2	3921.4	3784.1	3569.2	3363.3	3115.6	2888.8	2870.9
45°	10916.5	11176.2	7732.3	4237.7	3554.3	3470.7	3261.8	3038.0	2775.4	2572.5	2557.5
47.5°	13211.5	12844.4	7562.2	3652.8	3220.1	3196.2	3035.0	2775.4	2512.8	2372.5	2357.6
50°	16562.8	15470.6	7538.3	3229.0	2951.5	2963.4	2832.1	2593.4	2363.6	2247.2	2229.3
52.5°	20597.6	18642.9	7696.5	2930.6	2715.7	2760.5	2694.8	2474.0	2271.0	2172.6	2154.7
55°	24513.0	21495.9	7792.0	2697.8	2494.9	2578.4	2587.4	2402.4	2217.3	2118.8	2106.9
57.5°	27691.3	23644.6	7368.2	2485.9	2303.9	2432.2	2497.9	2360.6	2190.5	2115.9	2103.9
60°	29902.6	24659.2	6162.6	2297.9	2163.6	2315.8	2465.0	2363.6	2256.1	2265.1	2271.0
62.5°	30606.9	24208.6	4622.7	2157.6	2068.1	2277.0	2518.7	2485.9	2375.5	2444.1	2456.1
65°	29440.1	22346.4	3351.4	2047.2	1984.6	2303.9	2679.9	2575.4	2333.7	2384.5	2384.5
67.5°	25533.6	19251.7	2608.3	1945.8	1889.1	2354.6	2841.0	2566.5	2235.2	2294.9	2241.2
70°	20254.4	14891.6	2172.6	1832.4	1787.6	2280.0	2856.0	2474.0	2118.8	2130.8	2029.3
72.5°	13441.3	9791.5	1868.2	1724.9	1632.4	2050.2	2733.6	2354.6	2005.4	1936.8	1835.3
75°	6586.3	4882.3	1629.4	1590.6	1429.5	1784.6	2566.5	2241.2	1883.1	1775.7	1719.0
77.5°	2551.6	2077.1	1390.7	1420.5	1244.5	1572.7	2345.7	2080.1	1721.9	1575.7	1530.9
80°	1238.5	1178.8	1140.0	1184.8	1023.6	1339.9	2142.7	1939.8	1572.7	1411.6	1345.9
82.5°	769.9	728.2	874.4	922.1	787.9	1223.6	2032.3	1820.4	1384.7	1169.8	1116.1
85°	390.9	417.8	584.9	629.7	564.0	972.9	1674.2	1366.8	999.7	829.6	835.6
87.5°	149.2	199.9	307.4	331.3	301.4	513.3	922.1	796.8	641.6	435.7	402.9
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)