

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: P317454

Luminaire Tested: **GAN-SA0C-740-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0C-740-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 72937 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

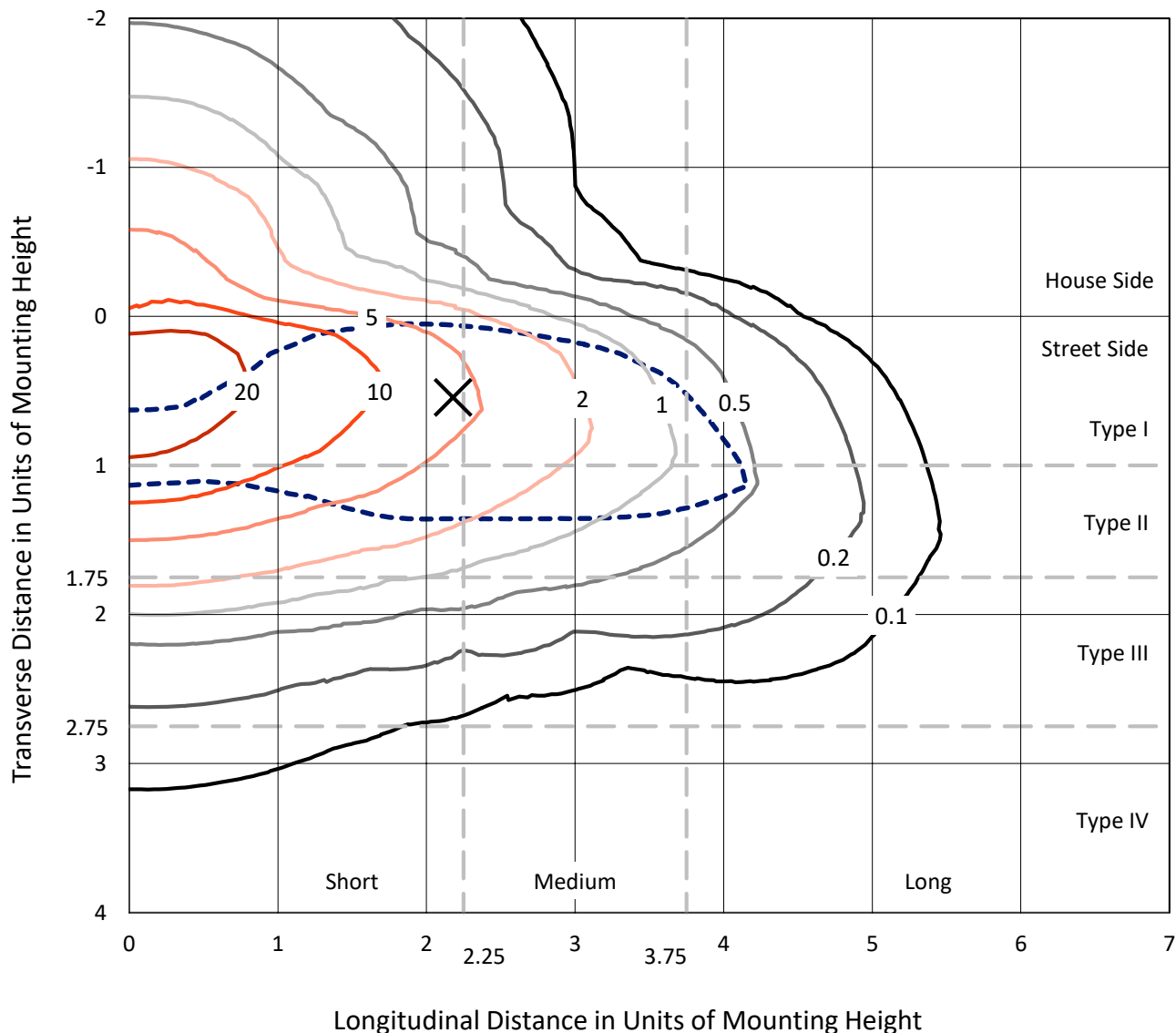
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

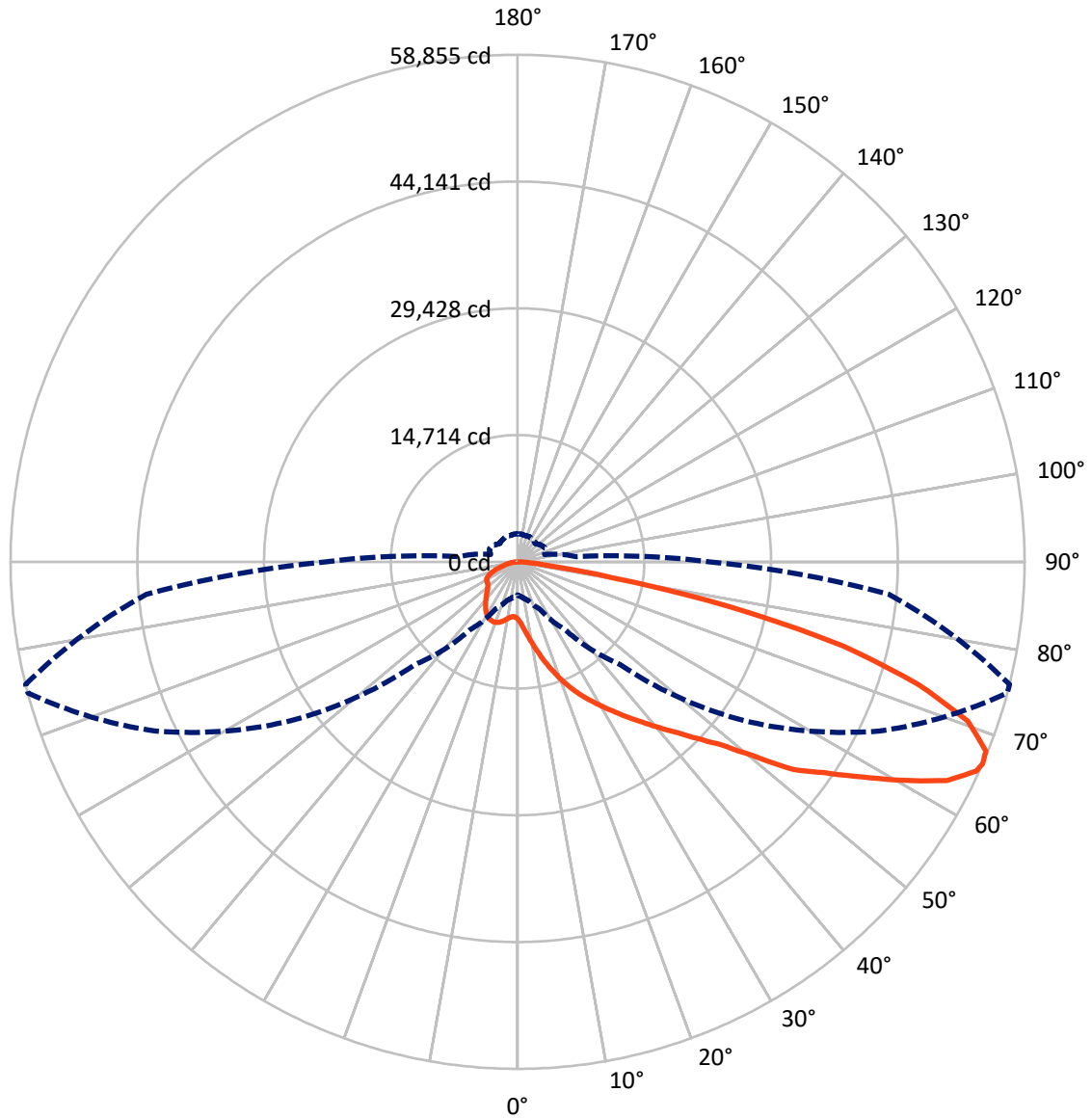
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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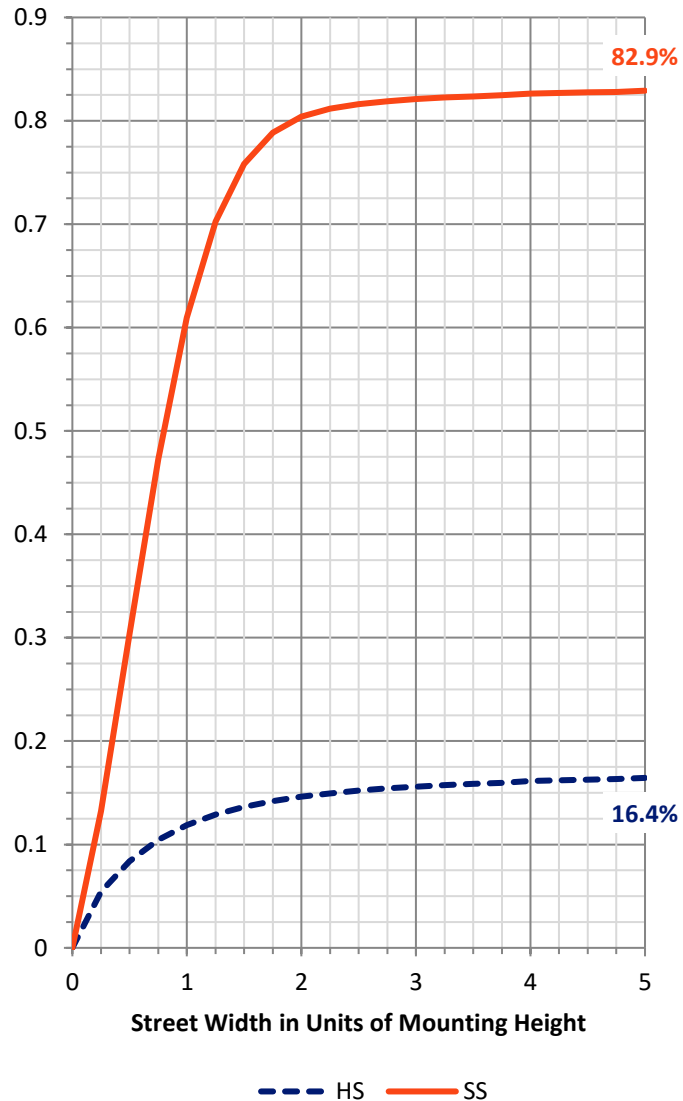
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12272.8	0.0	12272.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	60664.2	0.0	60664.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	72937.0	0.0	72937.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	805.5	1.1
10°-20°	3180.8	4.4
20°-30°	6181.0	8.5
30°-40°	10088.7	13.8
40°-50°	13783.6	18.9
50°-60°	16055.1	22.0
60°-70°	14393.7	19.7
70°-80°	7274.0	10.0
80°-90°	1174.6	1.6
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°	72937.0	100.0
0°-180°	72937.0	100.0

**Coefficient of Utilization**

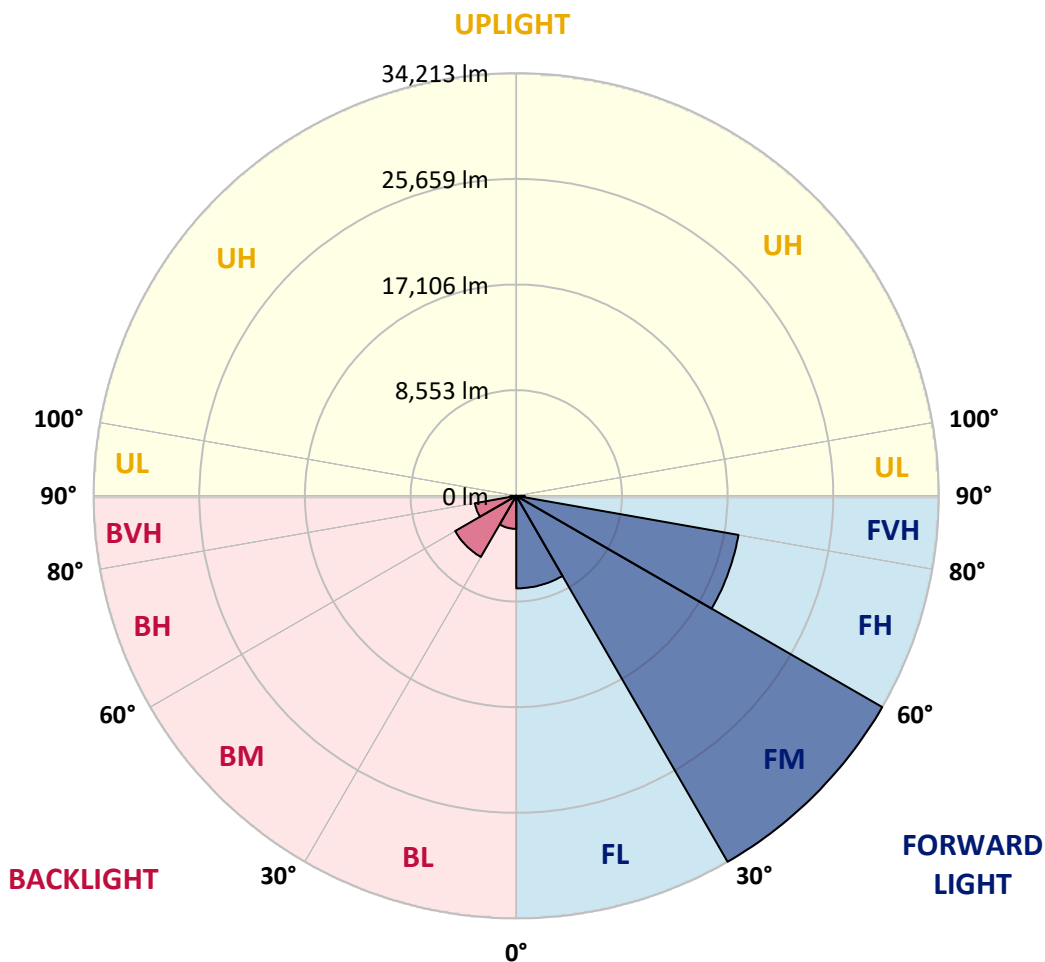


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7490.4	10.3			
FM (30°-60°)	34212.5	46.9			
FH (60°-80°)	18267.6	25.0			G5
FVH (80°-90°)	693.7	1.0			G4/750
BL (0°-30°)	2676.8	3.7	B4/5000		
BM (30°-60°)	5715.0	7.8	B4/8500		
BH (60°-80°)	3400.1	4.7	B4/5000		G4/5000
BVH (80°-90°)	480.9	0.7			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8
2.5°	8842.3	8708.6	8696.2	8500.6	8456.0	8082.1	7807.2	7520.0	7193.2	7128.8	6871.3
5°	11358.0	11345.6	11174.8	10855.4	10605.3	9966.4	9335.0	8666.5	7933.5	7814.7	7235.3
7.5°	13621.2	13601.4	13470.2	13126.0	12764.5	11979.5	11078.2	10053.1	8864.5	8688.7	7728.0
10°	15339.6	15332.2	15287.6	15035.1	14728.0	13975.3	12979.9	11580.9	9946.6	9706.4	8344.6
12.5°	16666.8	16681.7	16711.4	16622.3	16476.2	15834.9	14814.7	13200.3	11100.5	10862.8	9030.5
15°	17565.7	17610.2	17763.8	17890.0	17966.8	17573.1	16585.1	14856.8	12393.0	12108.3	9790.6
17.5°	18018.8	18068.3	18333.3	18714.6	19066.2	19026.6	18241.7	16436.6	13633.6	13358.7	10607.7
20°	18410.0	18447.2	18744.3	19202.4	19823.9	20098.8	19658.0	17956.9	14993.0	14666.1	11474.4
22.5°	19544.1	19591.2	19680.3	19940.3	20490.0	20995.1	20782.2	19395.5	16238.5	15933.9	12296.5
25°	21733.0	21790.0	21596.8	21376.4	21480.4	21832.0	21871.7	20707.9	17501.3	17157.1	13180.4
27.5°	24370.1	24451.8	24122.5	23555.4	23060.2	22924.0	22877.0	21782.5	18707.2	18308.5	14054.5
30°	26952.7	27093.8	26665.5	25930.0	25021.3	24382.5	23909.5	22834.9	19895.7	19514.4	14879.1
32.5°	29475.9	29418.9	28797.4	28079.3	27014.6	26214.8	25070.8	23964.0	21232.8	20794.6	15698.7
35°	31204.2	31224.0	30647.1	29795.3	28780.1	28166.0	26625.8	25182.3	22597.2	22193.6	16629.7
37.5°	32675.0	32583.4	31929.7	31134.9	30260.8	29998.3	28445.8	26524.3	24075.4	23634.7	17620.2
40°	33165.3	33058.8	32630.5	32058.5	31357.7	31335.4	30453.9	28044.7	25746.8	25311.0	18736.9
42.5°	32868.2	32732.0	32556.2	32400.2	32184.8	32283.8	32340.8	29827.5	27584.1	27096.3	20029.4
45°	31771.2	31565.7	31689.5	32028.8	32496.7	33056.4	34044.3	31801.0	29641.8	29233.2	21547.3
47.5°	30085.0	29899.3	30285.6	31011.1	32283.8	33700.1	35656.3	33979.9	32098.1	31692.0	23709.0
50°	27712.9	27767.3	28319.5	29639.3	31563.2	33997.3	37642.1	36864.6	35668.7	35289.8	26658.0
52.5°	23820.4	23830.3	25385.3	27551.9	30285.6	33843.8	38744.0	40551.6	40544.2	40086.1	29466.0
55°	20205.2	20425.6	21656.2	24536.0	28215.5	33229.7	39514.1	42344.3	43745.8	43208.5	32083.2
57.5°	16674.3	16803.0	17969.3	20861.4	25261.5	31593.0	40304.0	44496.1	47435.2	47096.0	35336.9
60°	12658.0	12856.1	14061.9	16733.7	21482.9	28688.5	40378.3	46741.9	51845.2	51503.5	38969.4
62.5°	8215.8	8557.5	9686.6	12190.0	16912.0	24511.2	38654.9	48210.3	56024.9	55903.6	42193.3
65°	4722.0	4979.5	5764.4	7695.8	11667.5	19266.8	34556.9	47645.7	58597.6	58528.3	43399.2
66°	3857.8	4018.8	4620.5	6014.5	9627.2	16919.4	32174.8	46454.7	58852.7	58855.2	43260.5
67.5°	3085.3	3157.1	3427.0	4306.0	7104.0	13410.7	27918.4	43827.5	58535.7	58622.4	42366.6
70°	2552.9	2590.0	2674.2	2887.2	3877.6	8087.0	19816.5	37000.8	55353.9	55420.8	38877.7
72.5°	2290.4	2312.7	2344.9	2374.6	2736.1	4518.9	12103.3	29599.7	48532.2	48618.8	33561.5
75°	2075.0	2087.4	2082.4	2084.9	2295.4	2879.7	6254.7	22099.5	39241.7	39068.4	25709.7
77.5°	1822.4	1834.8	1810.1	1815.0	2030.4	2213.7	3112.5	15470.9	26482.2	25259.0	14485.4
80°	1540.2	1550.1	1540.2	1557.5	1768.0	1671.4	1810.1	8703.6	11709.6	11075.7	5150.4
82.5°	1163.8	1205.9	1235.6	1304.9	1456.0	1188.5	1210.8	3389.8	3565.6	3394.8	1579.8
85°	510.1	621.5	931.0	997.9	1094.5	713.1	794.8	1381.7	1451.0	1406.4	574.5
87.5°	133.7	146.1	460.6	579.4	606.7	321.9	413.5	628.9	663.6	628.9	190.7
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°	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8
2.5°	6735.1	6613.7	6395.8	6202.7	6056.6	5957.6	5858.5	5809.0	5779.3	5749.6	5754.5
5°	6950.5	6705.4	6331.5	6066.5	5918.0	5823.9	5774.3	5754.5	5742.1	5712.4	5712.4
7.5°	7274.9	6928.2	6413.2	6140.8	6024.4	5952.6	5922.9	5913.0	5898.1	5863.5	5868.4
10°	7683.4	7198.1	6584.0	6319.1	6212.6	6133.4	6091.3	6076.4	6049.2	6009.6	6014.5
12.5°	8163.8	7532.4	6809.4	6532.0	6403.3	6296.8	6227.5	6185.4	6138.3	6086.3	6088.8
15°	8688.7	7896.4	7052.0	6722.7	6546.9	6398.3	6286.9	6215.1	6140.8	6076.4	6074.0
17.5°	9221.1	8248.0	7237.7	6826.7	6589.0	6393.4	6242.3	6130.9	6039.3	5960.0	5952.6
20°	9795.6	8564.9	7341.7	6816.8	6509.7	6277.0	6076.4	5937.8	5836.2	5757.0	5744.6
22.5°	10379.9	8862.1	7359.1	6715.3	6333.9	6049.2	5838.7	5685.2	5581.2	5499.5	5469.8
25°	10914.8	9092.4	7287.3	6519.7	6088.8	5781.8	5576.2	5420.3	5336.1	5239.5	5209.8
27.5°	11402.6	9253.3	7143.6	6269.6	5814.0	5511.9	5318.7	5185.0	5093.4	5019.1	4994.4
30°	11840.9	9340.0	6908.4	5972.4	5531.7	5256.8	5093.4	5001.8	4922.5	4828.5	4811.1
32.5°	12256.8	9340.0	6606.3	5648.1	5251.9	5031.5	4934.9	4878.0	4788.8	4697.2	4672.5
35°	12672.8	9283.0	6249.8	5308.8	4994.4	4870.6	4865.6	4798.7	4662.6	4538.7	4506.6
37.5°	13111.1	9166.6	5848.6	4991.9	4783.9	4798.7	4840.8	4692.3	4499.1	4323.3	4276.3
40°	13606.3	9005.7	5432.6	4717.0	4608.1	4766.6	4774.0	4538.7	4162.4	4001.4	3959.3
42.5°	14188.2	8844.7	5046.4	4474.4	4469.4	4670.0	4647.7	4206.9	3981.6	3899.9	3877.6
45°	14953.4	8753.1	4679.9	4244.1	4360.5	4514.0	4432.3	4023.7	3929.6	3882.6	3862.8
47.5°	16159.2	8800.2	4343.1	4060.9	4251.5	4358.0	4031.1	3949.4	3882.6	3825.6	3805.8
50°	17669.7	8772.9	4070.8	3934.6	4127.7	4194.6	3850.4	3852.9	3818.2	3753.8	3724.1
52.5°	18806.2	8560.0	3895.0	3862.8	4018.8	3904.9	3736.5	3758.8	3741.4	3647.3	3615.2
55°	19903.1	8376.8	3805.8	3835.5	3939.5	3543.3	3602.8	3657.2	3639.9	3548.3	3533.4
57.5°	21267.5	8342.1	3751.3	3843.0	3872.7	3362.6	3474.0	3545.8	3533.4	3493.8	3486.4
60°	22938.9	8352.0	3701.8	3855.3	3798.4	3228.9	3352.7	3444.3	3451.7	3444.3	3439.3
62.5°	23857.5	8082.1	3578.0	3820.7	3667.2	3112.5	3226.4	3360.1	3362.6	3377.4	3375.0
65°	23077.5	7274.9	3347.7	3699.3	3446.8	3015.9	3117.4	3263.5	3226.4	3293.3	3293.3
66°	22319.8	6809.4	3233.8	3620.1	3352.7	2978.8	3082.8	3214.0	3167.0	3258.6	3258.6
67.5°	20772.3	6024.4	3028.3	3451.7	3219.0	2926.8	3043.2	3132.3	3067.9	3204.1	3194.2
70°	17944.5	4660.1	2614.8	3070.4	2998.6	2850.0	2988.7	2968.9	2874.8	3082.8	3043.2
72.5°	15129.2	3540.9	2099.8	2570.2	2664.3	2753.5	2911.9	2760.9	2642.0	2788.1	2701.5
75°	11739.3	2661.8	1659.0	1998.2	2250.8	2602.4	2820.3	2520.7	2349.8	2335.0	2287.9
77.5°	6346.3	1827.4	1314.8	1525.3	1787.8	2414.2	2758.4	2263.2	2005.7	1946.2	1909.1
80°	2513.3	1188.5	955.8	1156.4	1250.4	2141.9	2609.8	1963.6	1654.1	1594.6	1537.7
82.5°	1037.5	703.2	616.6	775.0	814.6	1832.3	2342.4	1609.5	1277.7	1768.0	1876.9
85°	445.7	386.3	366.5	401.1	460.6	1285.1	1864.5	1228.2	1379.2	1230.6	978.1
87.5°	133.7	163.4	156.0	153.5	168.4	307.0	992.9	683.4	1012.7	383.8	287.2
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)