

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: P317423

Luminaire Tested: **GAN-SA9D-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317423  
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-SA9D-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 65812 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

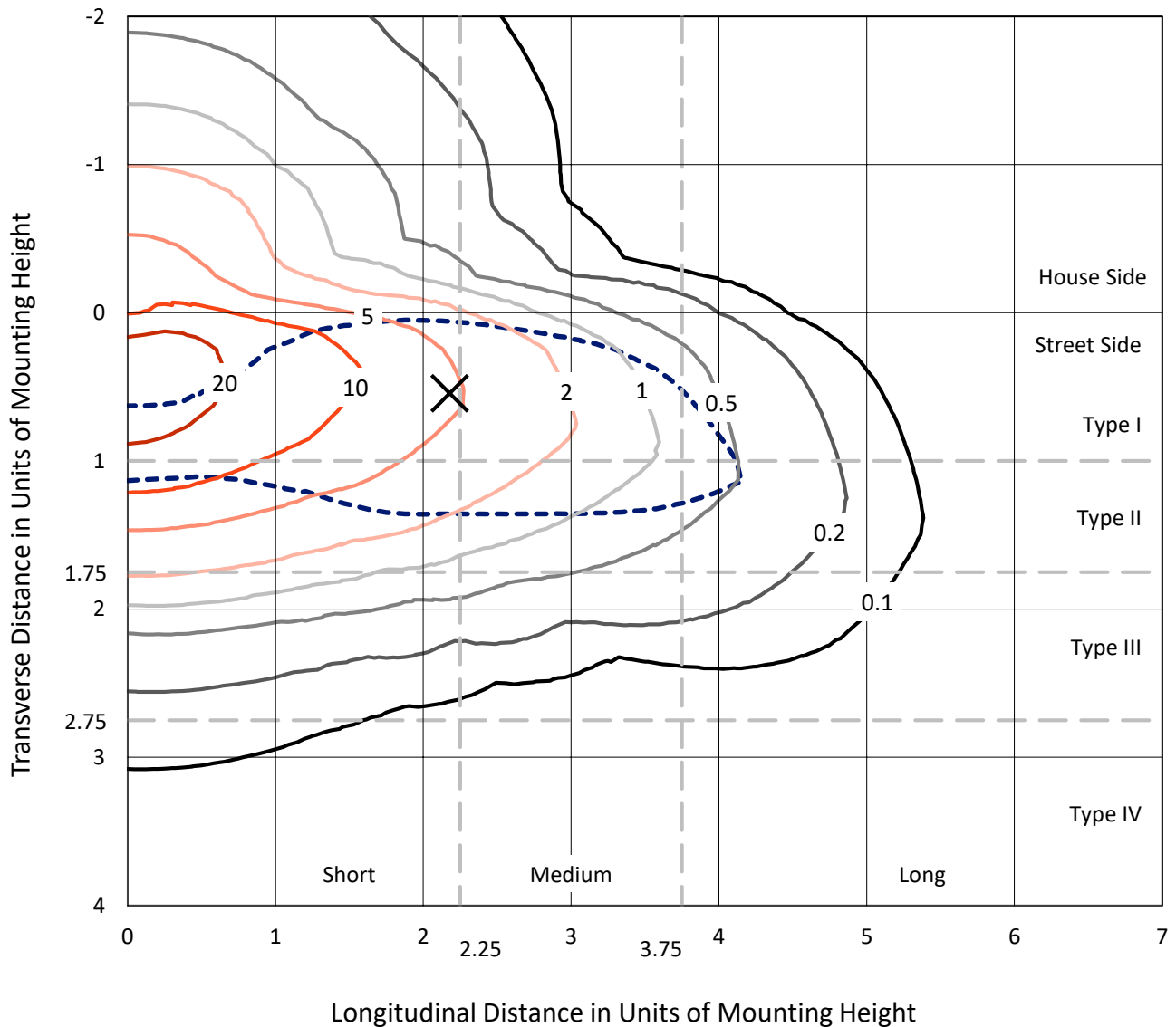
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

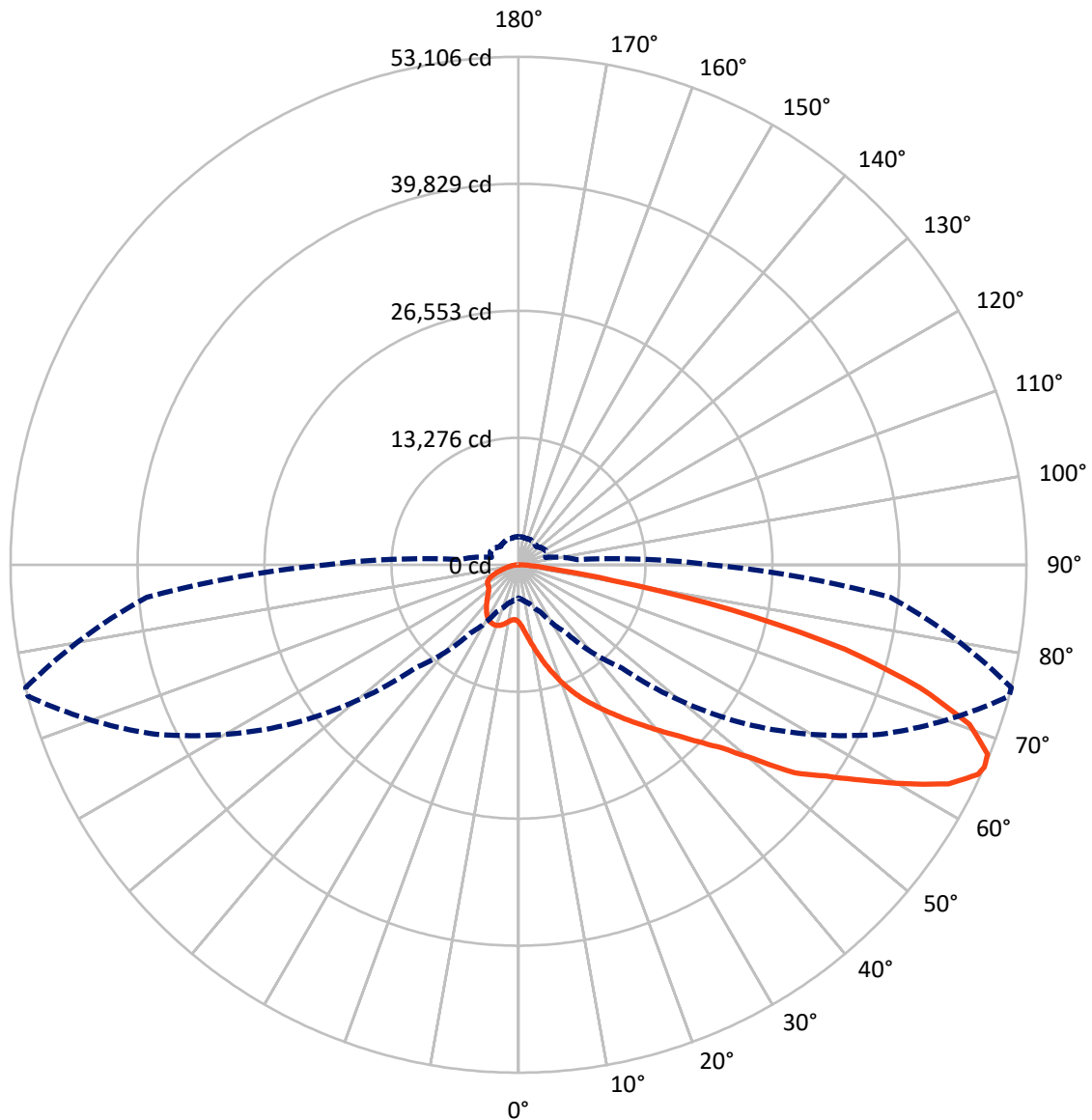
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 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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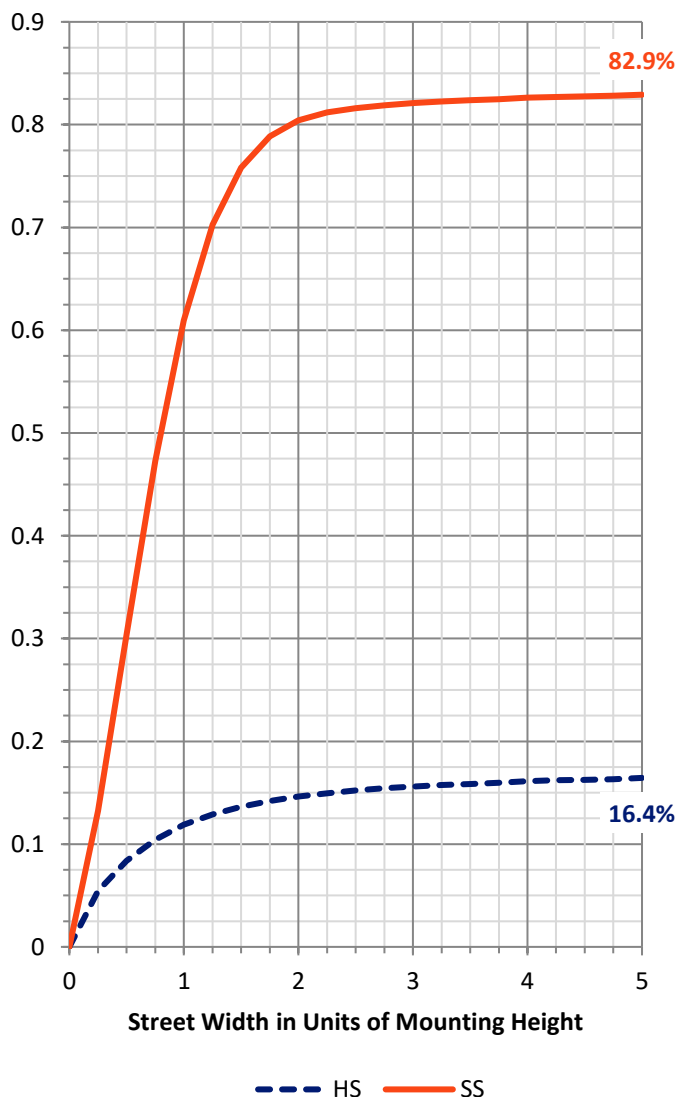
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11073.9	0.0	11073.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	54738.1	0.0	54738.1
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	65812.0	0.0	65812.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	726.8	1.1
10°-20°	2870.0	4.4
20°-30°	5577.2	8.5
30°-40°	9103.2	13.8
40°-50°	12437.1	18.9
50°-60°	14486.8	22.0
60°-70°	12987.6	19.7
70°-80°	6563.4	10.0
80°-90°	1059.9	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°	65812.0	100.0
0°-180°	65812.0	100.0

**Coefficient of Utilization**

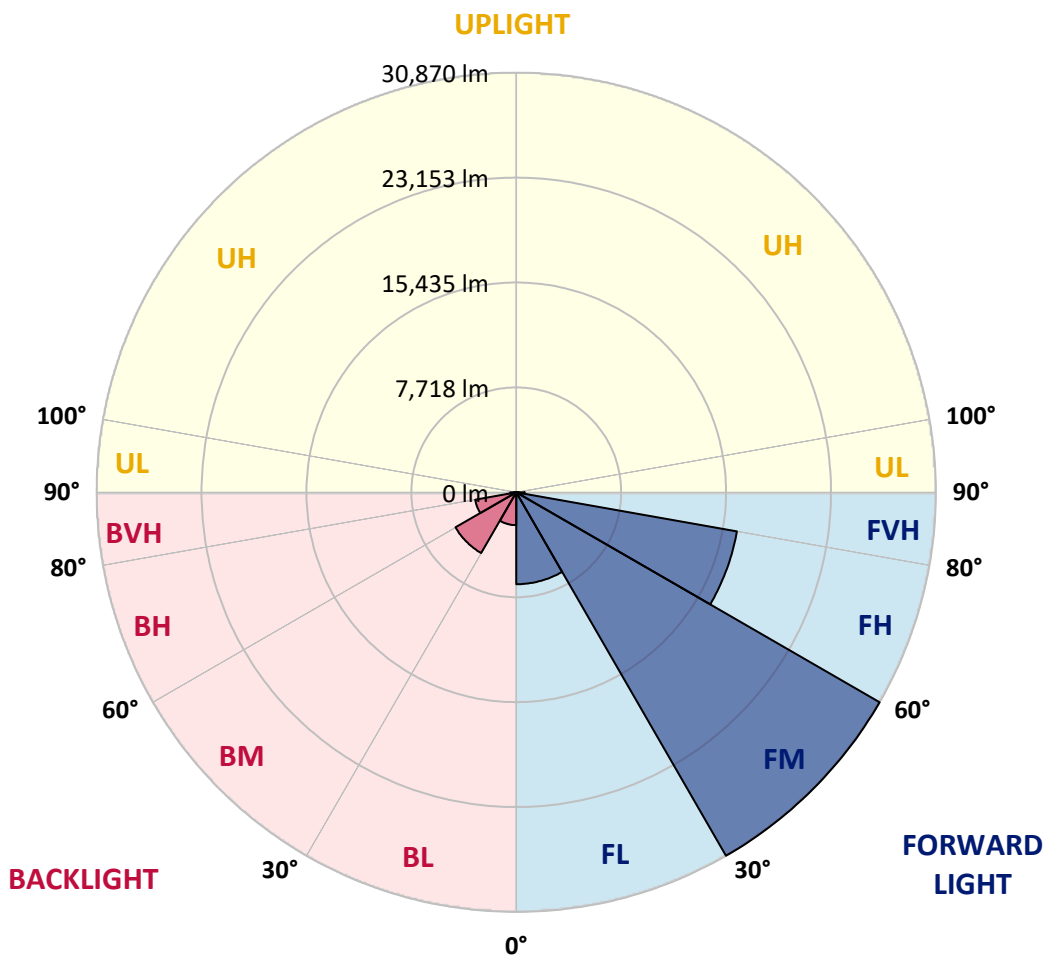


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6758.7	10.3			
FM (30°-60°)	30870.4	46.9			
FH (60°-80°)	16483.1	25.0			G5
FVH (80°-90°)	625.9	1.0			G4/750
BL (0°-30°)	2415.3	3.7	B3/2500		
BM (30°-60°)	5156.7	7.8	B4/8500		
BH (60°-80°)	3068.0	4.7	B4/5000		G4/5000
BVH (80°-90°)	434.0	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°	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1
2.5°	7978.5	7857.8	7846.7	7670.2	7629.9	7292.6	7044.6	6785.4	6490.5	6432.4	6200.0
5°	10248.5	10237.3	10083.1	9794.9	9569.3	8992.8	8423.1	7819.9	7158.5	7051.3	6528.5
7.5°	12290.6	12272.7	12154.3	11843.7	11517.5	10809.3	9996.0	9071.0	7998.6	7840.0	6973.1
10°	13841.1	13834.4	13794.2	13566.3	13289.3	12610.1	11711.9	10449.6	8975.0	8758.2	7529.4
12.5°	15038.7	15052.1	15078.9	14998.5	14866.7	14288.0	13367.5	11910.8	10016.1	9801.6	8148.3
15°	15849.7	15890.0	16028.5	16142.4	16211.7	15856.4	14965.0	13405.5	11182.4	10925.5	8834.2
17.5°	16258.6	16303.3	16542.4	16886.4	17203.7	17167.9	16459.7	14830.9	12301.8	12053.8	9571.5
20°	16611.6	16645.1	16913.2	17326.6	17887.4	18135.4	17737.7	16202.7	13528.4	13233.4	10353.5
22.5°	17634.9	17677.3	17757.8	17992.4	18488.4	18944.2	18752.0	17500.8	14652.2	14377.4	11095.3
25°	19610.0	19661.4	19487.1	19288.2	19382.1	19699.3	19735.1	18685.0	15791.6	15481.1	11892.9
27.5°	21989.4	22063.2	21766.0	21254.4	20807.5	20684.6	20642.2	19654.7	16879.7	16520.0	12681.6
30°	24319.8	24447.1	24060.6	23397.0	22577.0	22000.6	21573.9	20604.2	17952.2	17608.1	13425.6
32.5°	26596.5	26545.1	25984.3	25336.3	24375.6	23654.0	22621.7	21623.0	19158.7	18763.2	14165.1
35°	28156.0	28173.8	27653.3	26884.7	25968.6	25414.5	24024.8	22722.3	20389.7	20025.5	15005.2
37.5°	29483.1	29400.4	28810.6	28093.4	27304.7	27067.9	25667.0	23933.2	21723.6	21325.9	15898.9
40°	29925.5	29829.4	29442.9	28926.8	28294.5	28274.4	27479.0	25305.1	23231.7	22838.5	16906.5
42.5°	29657.4	29534.5	29375.9	29235.1	29040.7	29130.1	29181.5	26913.7	24889.5	24449.3	18072.8
45°	28667.6	28482.2	28593.9	28900.0	29322.2	29827.2	30718.6	28694.4	26746.2	26377.5	19442.4
47.5°	27146.1	26978.5	27327.1	27981.7	29130.1	30408.1	32173.1	30660.5	28962.5	28596.1	21392.9
50°	25005.7	25054.8	25553.1	26743.9	28479.9	30676.2	33965.0	33263.4	32184.3	31842.5	24053.9
52.5°	21493.4	21502.4	22905.5	24860.4	27327.1	30537.7	34959.2	36590.2	36583.5	36170.2	26587.5
55°	18231.4	18430.3	19540.7	22139.1	25459.2	29983.6	35654.1	38207.8	39472.4	38987.6	28949.1
57.5°	15045.4	15161.6	16213.9	18823.5	22793.8	28506.7	36366.8	40149.4	42801.4	42495.3	31884.9
60°	11421.5	11600.2	12688.3	15099.0	19384.3	25886.0	36433.8	42175.8	46780.6	46472.3	35162.6
62.5°	7413.2	7721.6	8740.4	10999.2	15259.9	22116.8	34878.8	43500.8	50552.0	50442.6	38071.5
65°	4260.7	4493.1	5201.3	6944.0	10527.8	17384.7	31181.1	42991.3	52873.4	52810.9	39159.6
66°	3481.0	3626.2	4169.1	5427.0	8686.7	15266.6	29031.8	41916.7	53103.5	53105.8	39034.5
67.5°	2783.9	2848.7	3092.2	3885.4	6410.0	12100.7	25191.1	39546.1	52817.6	52895.8	38227.9
70°	2303.5	2337.0	2413.0	2605.1	3498.8	7297.0	17880.7	33386.3	49946.6	50006.9	35079.9
72.5°	2066.7	2086.8	2115.8	2142.6	2468.8	4077.5	10921.0	26708.2	43791.2	43869.4	30283.0
75°	1872.3	1883.5	1879.0	1881.2	2071.1	2598.4	5643.7	19940.6	35408.3	35251.9	23198.2
77.5°	1644.4	1655.6	1633.2	1637.7	1832.1	1997.4	2808.4	13959.6	23895.3	22791.5	13070.3
80°	1389.7	1398.6	1389.7	1405.3	1595.3	1508.1	1633.2	7853.4	10565.7	9993.8	4647.2
82.5°	1050.1	1088.1	1114.9	1177.4	1313.7	1072.4	1092.5	3058.7	3217.3	3063.2	1425.4
85°	460.3	560.8	840.1	900.4	987.5	643.5	717.2	1246.7	1309.3	1269.1	518.3
87.5°	120.6	131.8	415.6	522.8	547.4	290.5	373.1	567.5	598.8	567.5	172.0
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°	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1	6010.1
2.5°	6077.1	5967.7	5771.1	5596.8	5465.0	5375.6	5286.2	5241.5	5214.7	5187.9	5192.4
5°	6271.5	6050.3	5713.0	5473.9	5339.8	5254.9	5210.3	5192.4	5181.2	5154.4	5154.4
7.5°	6564.2	6251.4	5786.7	5540.9	5435.9	5371.1	5344.3	5335.4	5322.0	5290.7	5295.2
10°	6932.9	6495.0	5940.9	5701.8	5605.7	5534.2	5496.2	5482.8	5458.3	5422.5	5427.0
12.5°	7366.3	6796.6	6144.2	5893.9	5777.8	5681.7	5619.1	5581.1	5538.7	5491.8	5494.0
15°	7840.0	7125.0	6363.1	6066.0	5907.3	5773.3	5672.7	5608.0	5540.9	5482.8	5480.6
17.5°	8320.3	7442.3	6530.7	6159.8	5945.3	5768.8	5632.5	5532.0	5449.3	5377.8	5371.1
20°	8838.7	7728.3	6624.5	6150.9	5873.8	5663.8	5482.8	5357.7	5266.1	5194.6	5183.4
22.5°	9366.0	7996.4	6640.2	6059.3	5715.2	5458.3	5268.4	5129.8	5036.0	4962.3	4935.4
25°	9848.6	8204.1	6575.4	5882.8	5494.0	5217.0	5031.5	4890.8	4814.8	4727.7	4700.9
27.5°	10288.7	8349.4	6445.8	5657.1	5246.0	4973.4	4799.2	4678.5	4595.8	4528.8	4506.5
30°	10684.2	8427.6	6233.5	5389.0	4991.3	4743.3	4595.8	4513.2	4441.7	4356.8	4341.1
32.5°	11059.5	8427.6	5961.0	5096.3	4738.8	4540.0	4452.9	4401.5	4321.0	4238.4	4216.0
35°	11434.9	8376.2	5639.2	4790.2	4506.5	4394.8	4390.3	4330.0	4207.1	4095.4	4066.3
37.5°	11830.3	8271.2	5277.3	4504.2	4316.6	4330.0	4367.9	4233.9	4059.6	3901.0	3858.5
40°	12277.2	8126.0	4901.9	4256.2	4157.9	4300.9	4307.6	4095.4	3755.8	3610.5	3572.6
42.5°	12802.2	7980.7	4553.4	4037.3	4032.8	4213.8	4193.7	3796.0	3592.7	3518.9	3498.8
45°	13492.6	7898.1	4222.7	3829.5	3934.5	4073.0	3999.3	3630.6	3545.7	3503.3	3485.4
47.5°	14580.7	7940.5	3918.9	3664.2	3836.2	3932.3	3637.4	3563.6	3503.3	3451.9	3434.0
50°	15943.6	7915.9	3673.1	3550.2	3724.5	3784.8	3474.3	3476.5	3445.2	3387.1	3360.3
52.5°	16969.1	7723.8	3514.5	3485.4	3626.2	3523.4	3371.5	3391.6	3375.9	3291.0	3262.0
55°	17958.9	7558.5	3434.0	3460.8	3554.7	3197.2	3250.8	3300.0	3284.3	3201.7	3188.3
57.5°	19189.9	7527.2	3384.9	3467.5	3494.4	3034.1	3134.6	3199.4	3188.3	3152.5	3145.8
60°	20698.0	7536.1	3340.2	3478.7	3427.3	2913.5	3025.2	3107.8	3114.5	3107.8	3103.4
62.5°	21527.0	7292.6	3228.5	3447.4	3308.9	2808.4	2911.2	3031.9	3034.1	3047.5	3045.3
65°	20823.2	6564.2	3020.7	3338.0	3110.1	2721.3	2812.9	2944.7	2911.2	2971.5	2971.5
66°	20139.5	6144.2	2917.9	3266.5	3025.2	2687.8	2781.6	2900.1	2857.6	2940.3	2940.3
67.5°	18743.1	5435.9	2732.5	3114.5	2904.5	2640.9	2745.9	2826.3	2768.2	2891.1	2882.2
70°	16191.6	4204.8	2359.4	2770.5	2705.7	2571.6	2696.7	2678.9	2594.0	2781.6	2745.9
72.5°	13651.2	3195.0	1894.6	2319.1	2404.0	2484.5	2627.5	2491.2	2383.9	2515.8	2437.6
75°	10592.6	2401.8	1496.9	1803.0	2030.9	2348.2	2544.8	2274.5	2120.3	2106.9	2064.4
77.5°	5726.4	1648.9	1186.4	1376.3	1613.1	2178.4	2488.9	2042.1	1809.7	1756.1	1722.6
80°	2267.8	1072.4	862.4	1043.4	1128.3	1932.6	2354.9	1771.8	1492.5	1438.9	1387.5
82.5°	936.1	634.5	556.3	699.3	735.1	1653.3	2113.6	1452.3	1152.9	1595.3	1693.6
85°	402.2	348.5	330.7	361.9	415.6	1159.6	1682.4	1108.2	1244.5	1110.4	882.5
87.5°	120.6	147.5	140.8	138.5	151.9	277.0	895.9	616.7	913.8	346.3	259.2
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)