

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: P317424

Luminaire Tested: **GAN-SA0D-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317424  
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-SA0D-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 72864 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

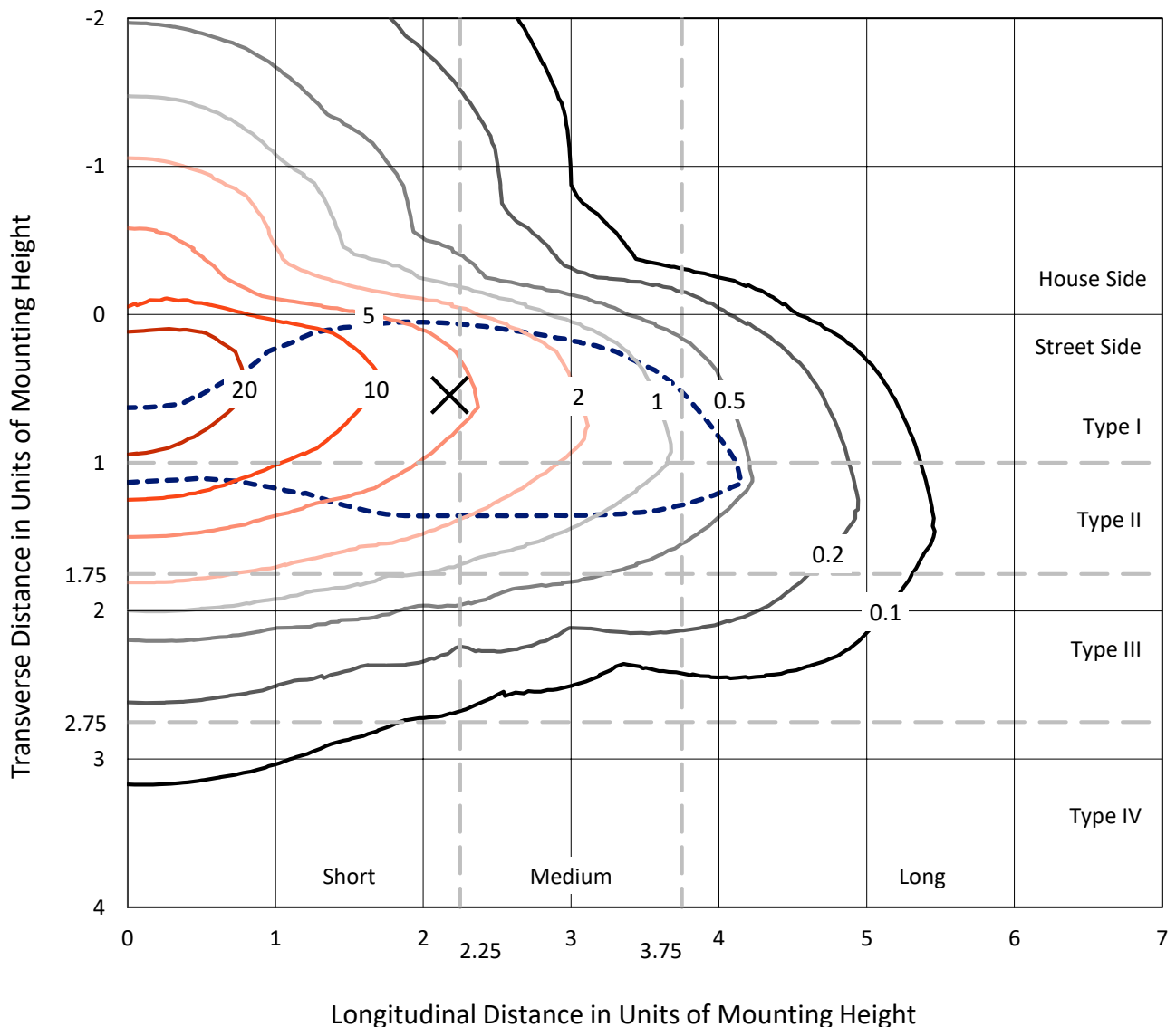
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

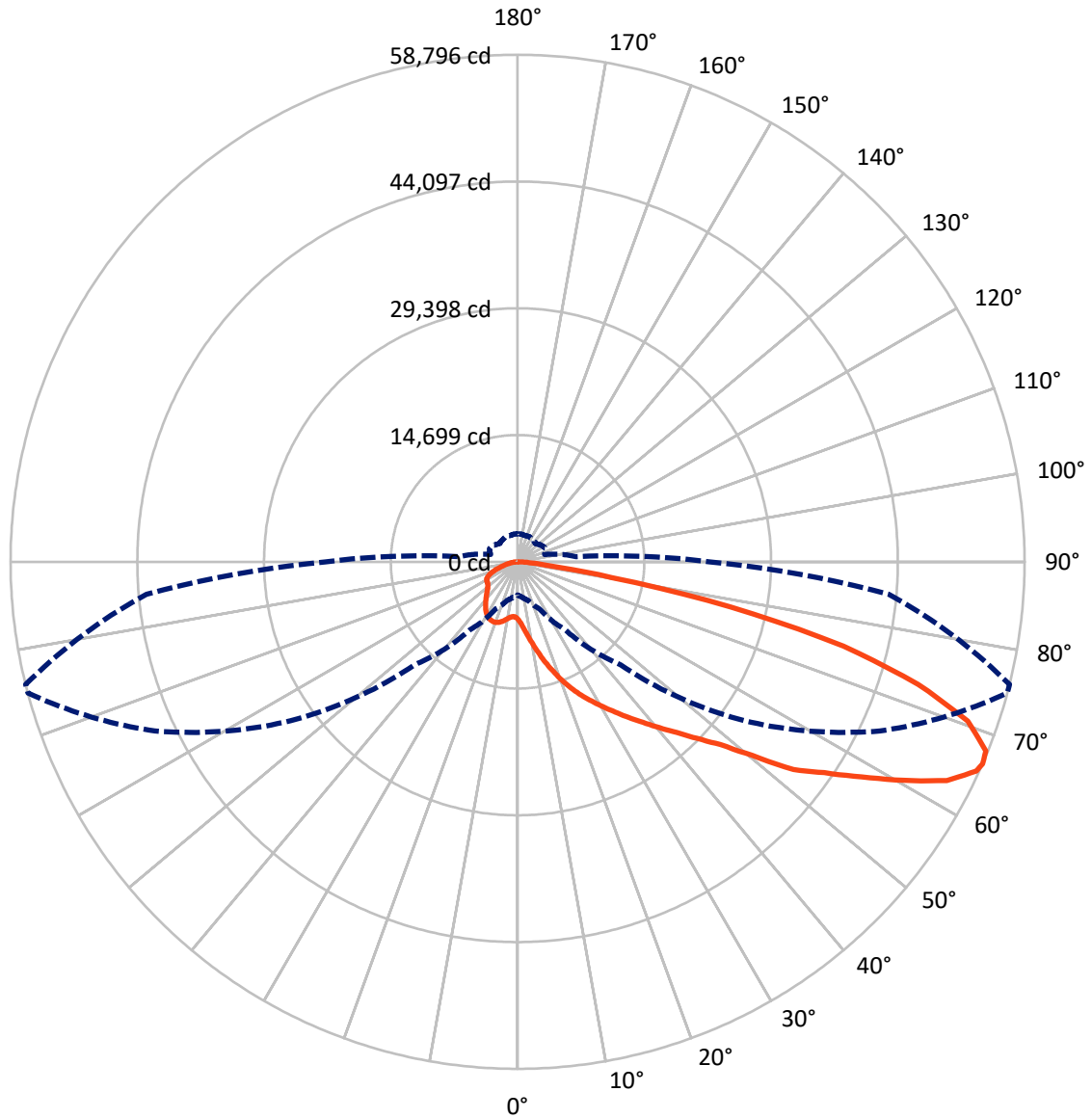
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.2 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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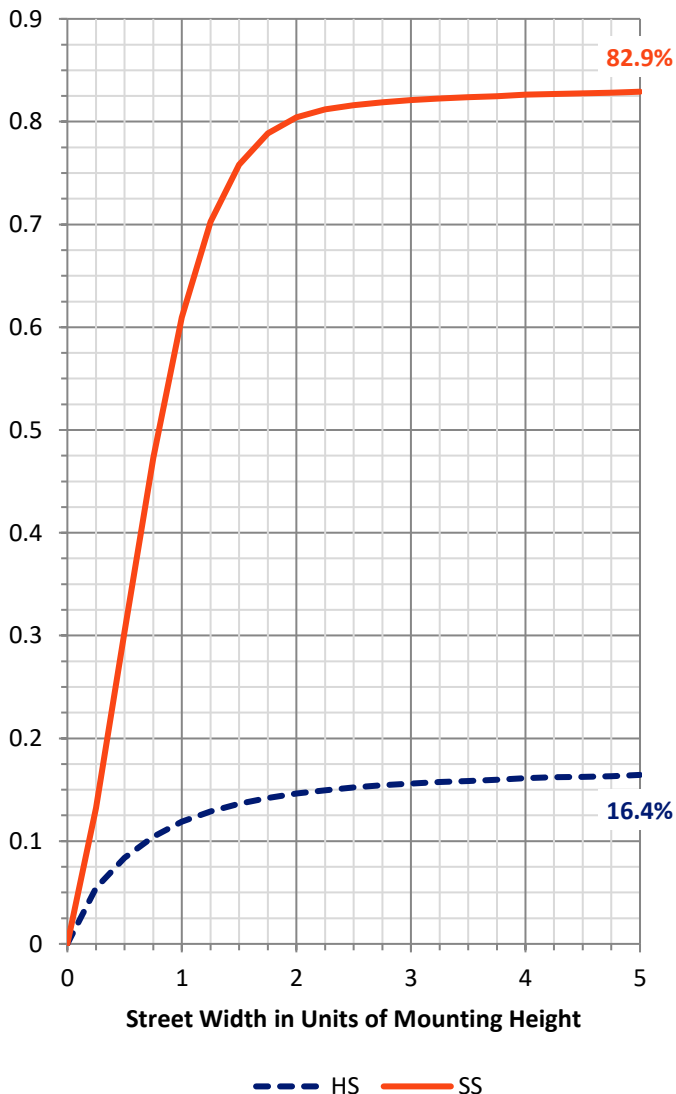
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12260.5	0.0	12260.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	60603.5	0.0	60603.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	72864.0	0.0	72864.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	804.7	1.1
10°-20°	3177.6	4.4
20°-30°	6174.8	8.5
30°-40°	10078.6	13.8
40°-50°	13769.8	18.9
50°-60°	16039.1	22.0
60°-70°	14379.3	19.7
70°-80°	7266.7	10.0
80°-90°	1173.5	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°	72864.0	100.0
0°-180°	72864.0	100.0

**Coefficient of Utilization**

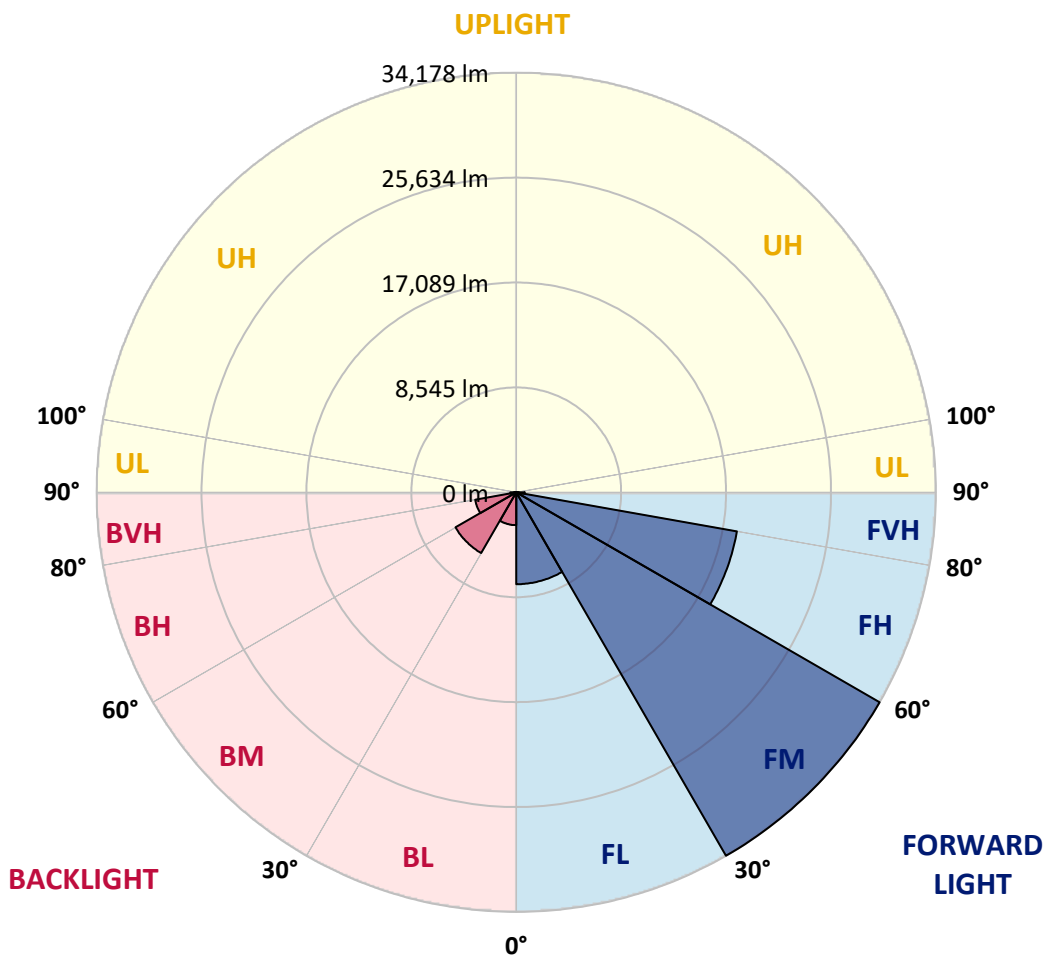


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7482.9	10.3			
FM (30°-60°)	34178.3	46.9			
FH (60°-80°)	18249.3	25.0			G5
FVH (80°-90°)	693.0	1.0			G4/750
BL (0°-30°)	2674.1	3.7	B4/5000		
BM (30°-60°)	5709.2	7.8	B4/8500		
BH (60°-80°)	3396.7	4.7	B4/5000		G4/5000
BVH (80°-90°)	480.5	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°	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1
2.5°	8833.4	8699.8	8687.5	8492.1	8447.5	8074.0	7799.4	7512.5	7186.0	7121.6	6864.4
5°	11346.6	11334.3	11163.6	10844.5	10594.7	9956.5	9325.7	8657.8	7925.6	7806.8	7228.0
7.5°	13607.6	13587.8	13456.7	13112.8	12751.7	11967.5	11067.1	10043.0	8855.7	8680.0	7720.3
10°	15324.3	15316.9	15272.3	15020.0	14713.3	13961.3	12966.9	11569.3	9936.7	9696.7	8336.2
12.5°	16650.2	16665.0	16694.7	16605.6	16459.7	15819.0	14799.9	13187.0	11089.4	10851.9	9021.4
15°	17548.1	17592.6	17746.0	17872.1	17948.8	17555.5	16568.5	14841.9	12380.6	12096.2	9780.8
17.5°	18000.8	18050.2	18314.9	18695.9	19047.1	19007.5	18223.4	16420.1	13619.9	13345.4	10597.1
20°	18391.6	18428.7	18725.6	19183.2	19804.1	20078.6	19638.3	17938.9	14978.0	14651.4	11462.9
22.5°	19524.5	19571.5	19660.6	19920.3	20469.5	20974.1	20761.4	19376.1	16222.2	15918.0	12284.2
25°	21711.3	21768.1	21575.2	21355.0	21458.9	21810.2	21849.8	20687.2	17483.8	17139.9	13167.3
27.5°	24345.7	24427.3	24098.3	23531.9	23037.1	22901.1	22854.1	21760.7	18688.4	18290.2	14040.5
30°	26925.7	27066.7	26638.8	25904.1	24996.3	24358.1	23885.6	22812.0	19875.8	19494.9	14864.2
32.5°	29446.4	29389.5	28768.6	28051.2	26987.6	26188.6	25045.7	23940.0	21211.6	20773.7	15683.0
35°	31173.0	31192.8	30616.4	29765.5	28751.3	28137.8	26599.2	25157.1	22574.6	22171.4	16613.1
37.5°	32642.3	32550.8	31897.8	31103.7	30230.5	29968.3	28417.3	26497.8	24051.3	23611.0	17602.5
40°	33132.1	33025.7	32597.8	32026.4	31326.3	31304.1	30423.5	28016.6	25721.0	25285.7	18718.1
42.5°	32835.3	32699.2	32523.6	32367.7	32152.5	32251.5	32308.4	29797.6	27556.5	27069.2	20009.4
45°	31739.4	31534.1	31657.8	31996.7	32464.2	33023.3	34010.3	31769.1	29612.1	29203.9	21525.7
47.5°	30054.9	29869.4	30255.2	30980.0	32251.5	33666.4	35620.6	33945.9	32066.0	31660.3	23685.2
50°	27685.1	27739.5	28291.2	29609.6	31531.7	33963.3	37604.5	36827.7	35633.0	35254.5	26631.3
52.5°	23796.5	23806.4	25359.9	27524.3	30255.2	33809.9	38705.2	40511.0	40503.6	40046.0	29436.5
55°	20185.0	20405.2	21634.6	24511.4	28187.3	33196.4	39474.6	42301.9	43702.0	43165.2	32051.1
57.5°	16657.6	16786.2	17951.3	20840.5	25236.2	31561.3	40263.6	44451.5	47387.8	47048.9	35301.5
60°	12645.3	12843.2	14047.9	16716.9	21461.4	28659.7	40337.9	46695.1	51793.3	51452.0	38930.4
62.5°	8207.6	8548.9	9676.9	12177.8	16895.1	24486.7	38616.2	48162.0	55968.9	55847.7	42151.0
65°	4717.3	4974.5	5758.7	7688.1	11655.9	19247.5	34522.3	47598.0	58539.0	58469.7	43355.7
66°	3854.0	4014.7	4615.8	6008.5	9617.6	16902.5	32142.6	46408.2	58793.8	58796.3	43217.2
67.5°	3082.2	3153.9	3423.5	4301.7	7096.9	13397.3	27890.4	43783.7	58477.2	58563.7	42324.2
70°	2550.3	2587.4	2671.5	2884.3	3873.7	8079.0	19796.6	36963.8	55298.5	55365.3	38838.8
72.5°	2288.1	2310.4	2342.5	2372.2	2733.4	4514.4	12091.2	29570.0	48483.6	48570.2	33527.9
75°	2072.9	2085.3	2080.3	2082.8	2293.1	2876.9	6248.4	22077.4	39202.5	39029.3	25683.9
77.5°	1820.6	1833.0	1808.2	1813.2	2028.4	2211.4	3109.4	15455.4	26455.7	25233.7	14470.9
80°	1538.6	1548.5	1538.6	1555.9	1766.2	1669.7	1808.2	8694.9	11697.9	11064.6	5145.2
82.5°	1162.6	1204.7	1234.4	1303.6	1454.5	1187.4	1209.6	3386.4	3562.1	3391.4	1578.2
85°	509.6	620.9	930.1	996.9	1093.4	712.4	794.0	1380.3	1449.6	1405.0	573.9
87.5°	133.6	145.9	460.1	578.8	606.0	321.6	413.1	628.3	662.9	628.3	190.5
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°	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1	6654.1
2.5°	6728.3	6607.1	6389.4	6196.5	6050.6	5951.6	5852.7	5803.2	5773.5	5743.8	5748.8
5°	6943.5	6698.7	6325.1	6060.4	5912.0	5818.0	5768.6	5748.8	5736.4	5706.7	5706.7
7.5°	7267.6	6921.3	6406.8	6134.7	6018.4	5946.7	5917.0	5907.1	5892.2	5857.6	5862.6
10°	7675.7	7190.9	6577.4	6312.8	6206.4	6127.2	6085.2	6070.3	6043.1	6003.6	6008.5
12.5°	8155.6	7524.9	6802.5	6525.5	6396.9	6290.5	6221.2	6179.2	6132.2	6080.2	6082.7
15°	8680.0	7888.5	7045.0	6716.0	6540.3	6391.9	6280.6	6208.9	6134.7	6070.3	6067.9
17.5°	9211.9	8239.7	7230.5	6819.9	6582.4	6387.0	6236.1	6124.8	6033.2	5954.1	5946.7
20°	9785.8	8556.4	7334.4	6810.0	6503.2	6270.7	6070.3	5931.8	5830.4	5751.2	5738.9
22.5°	10369.6	8853.2	7351.7	6708.5	6327.6	6043.1	5832.9	5679.5	5575.6	5494.0	5464.3
25°	10903.9	9083.3	7280.0	6513.1	6082.7	5776.0	5570.7	5414.8	5330.7	5234.2	5204.6
27.5°	11391.2	9244.0	7136.5	6263.3	5808.1	5506.4	5313.4	5179.8	5088.3	5014.1	4989.4
30°	11829.0	9330.6	6901.5	5966.5	5526.1	5251.6	5088.3	4996.8	4917.6	4823.6	4806.3
32.5°	12244.6	9330.6	6599.7	5642.4	5246.6	5026.5	4930.0	4873.1	4784.0	4692.5	4667.8
35°	12660.2	9273.7	6243.5	5303.5	4989.4	4865.7	4860.7	4793.9	4657.9	4534.2	4502.0
37.5°	13098.0	9157.5	5842.8	4986.9	4779.1	4793.9	4836.0	4687.6	4494.6	4319.0	4272.0
40°	13592.7	8996.7	5427.2	4712.3	4603.5	4761.8	4769.2	4534.2	4158.2	3997.4	3955.4
42.5°	14174.0	8835.9	5041.3	4469.9	4464.9	4665.3	4643.0	4202.7	3977.6	3896.0	3873.7
45°	14938.4	8744.4	4675.2	4239.8	4356.1	4509.5	4427.8	4019.7	3925.7	3878.7	3858.9
47.5°	16143.1	8791.4	4338.8	4056.8	4247.3	4353.6	4027.1	3945.5	3878.7	3821.8	3802.0
50°	17652.0	8764.2	4066.7	3930.6	4123.6	4190.4	3846.5	3849.0	3814.4	3750.1	3720.4
52.5°	18787.4	8551.4	3891.1	3858.9	4014.7	3901.0	3732.7	3755.0	3737.7	3643.7	3611.5
55°	19883.2	8368.4	3802.0	3831.7	3935.6	3539.8	3599.2	3653.6	3636.3	3544.7	3529.9
57.5°	21246.2	8333.7	3747.6	3839.1	3868.8	3359.2	3470.5	3542.3	3529.9	3490.3	3482.9
60°	22915.9	8343.6	3698.1	3851.5	3794.6	3225.6	3349.3	3440.9	3448.3	3440.9	3435.9
62.5°	23833.6	8074.0	3574.4	3816.8	3663.5	3109.4	3223.2	3356.7	3359.2	3374.1	3371.6
65°	23054.4	7267.6	3344.4	3695.6	3443.3	3012.9	3114.3	3260.3	3223.2	3290.0	3290.0
66°	22297.5	6802.5	3230.6	3616.5	3349.3	2975.8	3079.7	3210.8	3163.8	3255.3	3255.3
67.5°	20751.5	6018.4	3025.3	3448.3	3215.7	2923.9	3040.1	3129.2	3064.9	3200.9	3191.0
70°	17926.6	4655.4	2612.2	3067.3	2995.6	2847.2	2985.7	2965.9	2871.9	3079.7	3040.1
72.5°	15114.0	3537.3	2097.7	2567.7	2661.7	2750.7	2909.0	2758.1	2639.4	2785.3	2698.8
75°	11727.6	2659.2	1657.3	1996.2	2248.6	2599.8	2817.5	2518.2	2347.5	2332.7	2285.7
77.5°	6340.0	1825.6	1313.5	1523.8	1786.0	2411.8	2755.6	2260.9	2003.7	1944.3	1907.2
80°	2510.8	1187.4	954.8	1155.2	1249.2	2139.7	2607.2	1961.6	1652.4	1593.0	1536.1
82.5°	1036.5	702.5	615.9	774.3	813.8	1830.5	2340.1	1607.9	1276.4	1766.2	1875.0
85°	445.3	385.9	366.1	400.7	460.1	1283.8	1862.7	1226.9	1377.8	1229.4	977.1
87.5°	133.6	163.3	155.8	153.4	168.2	306.7	991.9	682.7	1011.7	383.4	286.9
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)