

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: P320984

Luminaire Tested: **GAN-SA0D-740-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0D-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 78790 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

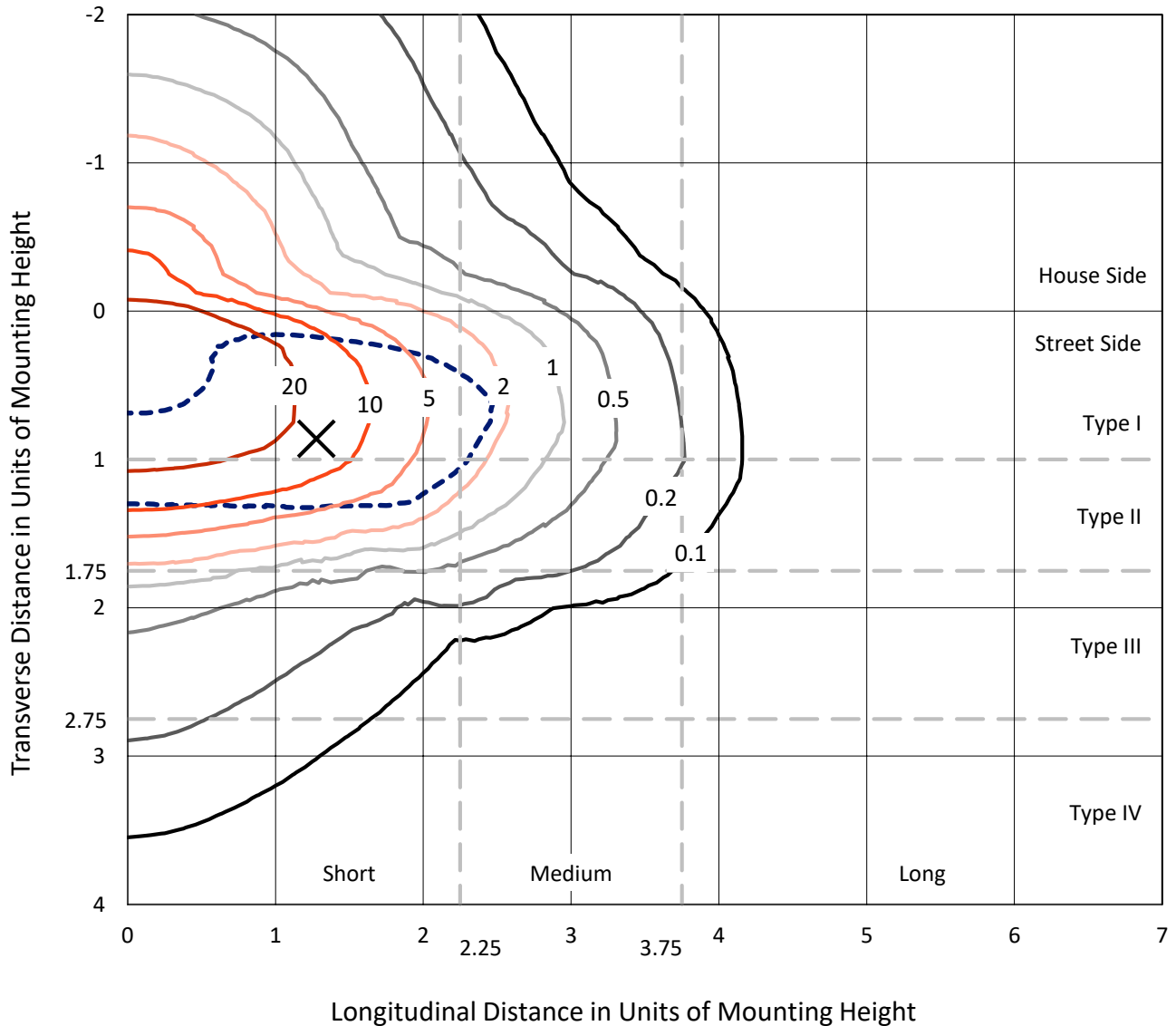
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

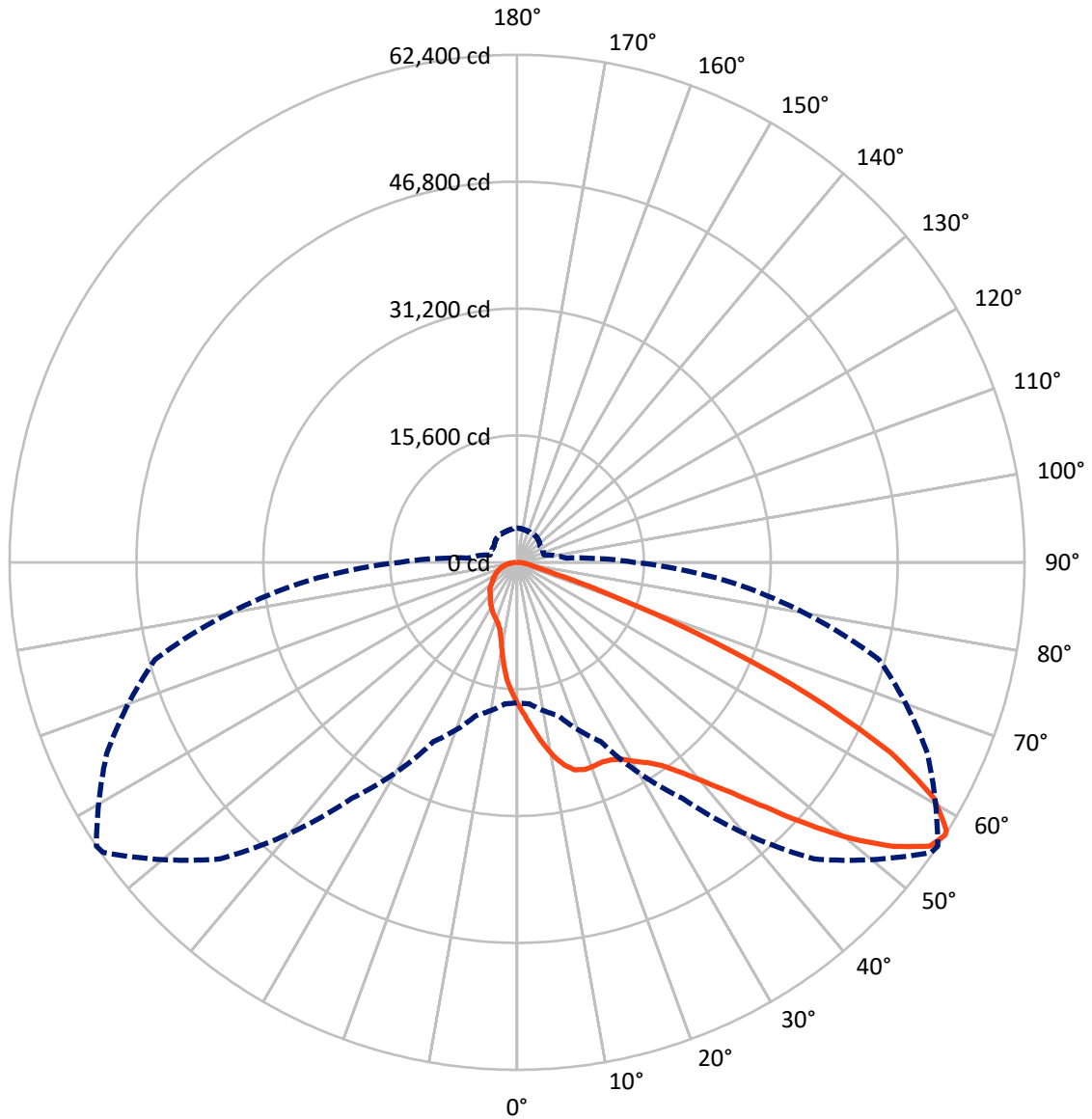
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 38.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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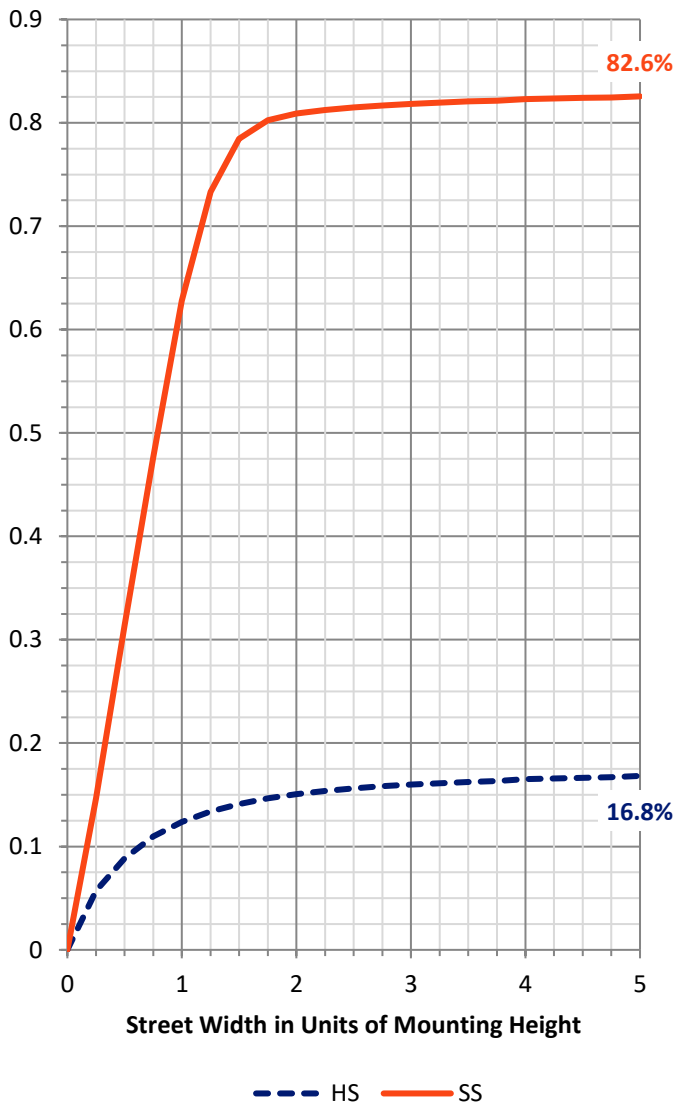
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13581.7	0.0	13581.7
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	65208.3	0.0	65208.3
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	78790.0	0.0	78790.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1669.4	2.1
10°-20°	4719.7	6.0
20°-30°	7687.5	9.8
30°-40°	11491.9	14.6
40°-50°	17430.8	22.1
50°-60°	19536.8	24.8
60°-70°	11539.2	14.6
70°-80°	3780.7	4.8
80°-90°	934.1	1.2
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°	78790.0	100.0
0°-180°	78790.0	100.0

**Coefficient of Utilization**

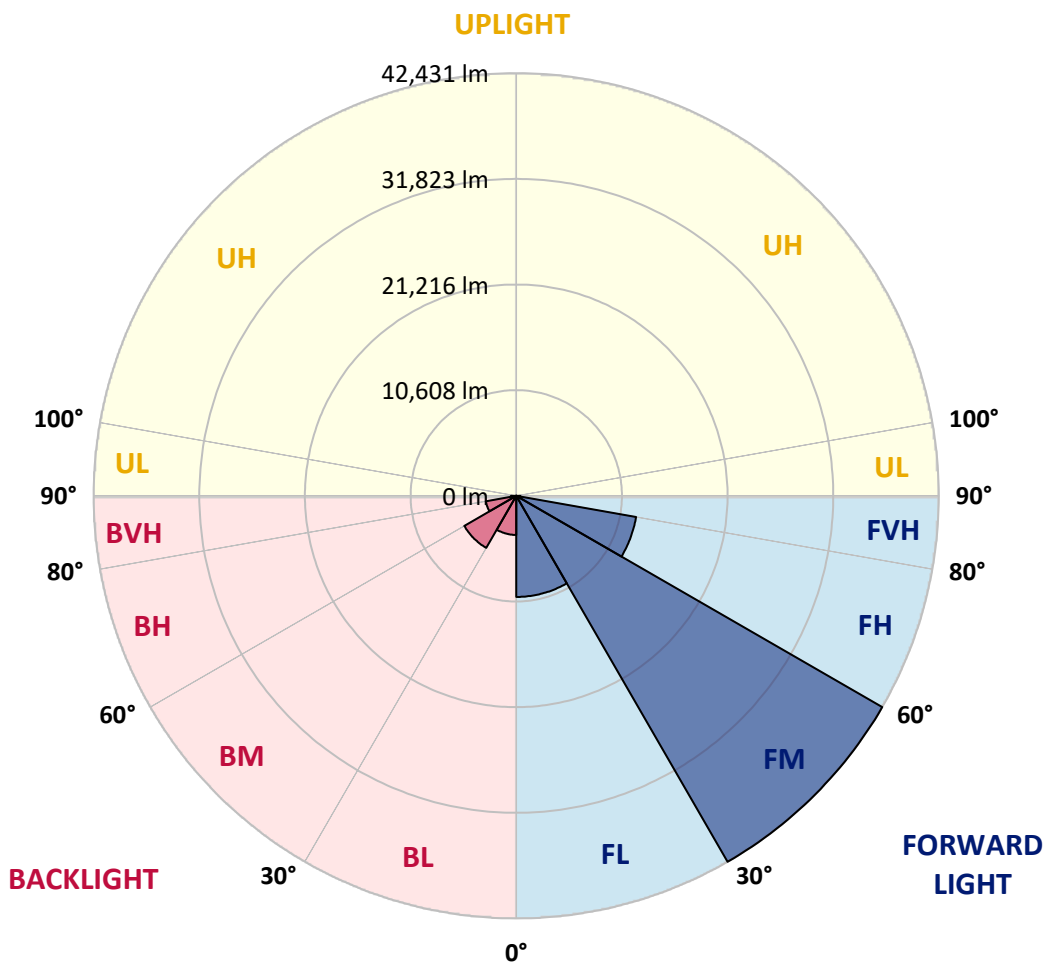


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10149.3	12.9			
FM (30°-60°)	42431.0	53.9			
FH (60°-80°)	12216.6	15.5			G5
FVH (80°-90°)	411.3	0.5			G3/500
BL (0°-30°)	3927.2	5.0	B4/5000		
BM (30°-60°)	6028.5	7.7	B4/8500		
BH (60°-80°)	3103.3	3.9	B4/5000		G4/5000
BVH (80°-90°)	522.8	0.7			G4/750
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°	56°	65°	75°	85°
0°	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7
2.5°	20067.0	20251.1	20169.9	19888.3	19671.7	19365.7	19024.5	18921.6	18561.5	18158.0	17673.4
5°	23243.2	23151.1	23018.4	22579.8	22116.7	21577.9	20722.3	20586.9	19785.4	18872.9	17908.9
7.5°	25051.9	25043.8	24965.3	24708.0	24285.6	23581.6	22550.0	22390.2	21179.9	19712.3	18217.6
10°	24789.3	24770.3	24900.3	25168.4	25295.6	25149.4	24280.2	24120.5	22633.9	20641.0	18575.0
12.5°	23297.3	23308.1	23516.6	24079.8	24846.1	25766.8	25626.0	25547.4	24142.1	21691.6	19008.3
15°	22135.7	22160.1	22325.2	22815.3	23719.7	25390.4	26443.7	26470.8	25601.6	22850.5	19514.6
17.5°	21626.6	21678.1	21753.9	22097.8	22926.4	24640.3	26638.7	26784.9	26879.6	24052.8	20002.0
20°	21789.1	21837.8	21859.5	22078.8	22758.5	24185.5	26503.3	26765.9	27859.8	25184.6	20489.4
22.5°	22517.5	22547.3	22560.8	22617.7	23145.7	24315.4	26413.9	26690.1	28569.3	26200.0	20857.6
25°	23725.1	23703.5	23616.8	23543.7	23898.4	24829.9	26619.7	26882.4	29146.0	27120.6	21098.6
27.5°	25171.1	25144.0	24976.1	24775.7	24978.8	25631.4	27212.7	27421.2	29663.2	27981.7	21220.5
30°	26906.7	26836.3	26519.5	26281.2	26359.8	26833.6	28190.2	28379.7	30462.0	28959.2	21339.6
32.5°	28913.1	28837.3	28379.7	27984.4	27984.4	28379.7	29197.5	29354.5	31138.9	30063.9	21531.9
35°	31425.9	31331.2	30735.5	30072.1	29885.2	30085.6	30570.3	30681.3	32357.4	31455.7	21881.2
37.5°	34388.2	34260.9	33489.2	32601.1	32192.2	32181.4	32530.7	32758.1	34304.2	33283.4	22474.2
40°	37358.6	37269.2	36595.0	35896.4	35094.9	34837.7	35376.5	35446.9	36849.5	35552.5	23232.3
42.5°	39654.7	39638.5	39513.9	39606.0	38785.5	38265.6	38688.1	38744.9	39958.0	38008.4	24039.2
45°	40867.8	40894.9	41498.7	42836.3	43139.6	42760.5	42969.0	42985.2	43510.5	40486.0	24778.4
47.5°	39895.7	40036.5	41563.7	44555.7	47038.7	48297.8	47951.2	48151.6	46954.8	42614.3	25357.9
50°	36107.6	36280.9	38880.3	43789.4	48858.3	53656.4	53475.0	53428.9	49732.9	44173.9	25672.0
52.5°	31415.1	31550.5	33695.0	39806.3	47523.4	56618.6	58283.9	58045.6	52202.3	45341.0	25731.6
55°	24269.4	24480.6	26535.8	31856.5	42124.2	55486.8	61820.2	61606.3	54452.5	45952.9	25661.2
57°	17253.7	17475.7	19517.3	24312.7	35436.1	51568.7	62172.2	62399.7	55668.2	46055.8	25739.7
57.5°	15396.2	15623.6	17646.3	22303.6	33351.1	50152.6	61868.9	62248.0	55887.6	46039.5	25783.0
60°	7752.2	7838.9	9127.8	12450.1	21082.4	40545.6	57912.9	58890.4	56085.2	45243.5	25969.8
62.5°	4819.8	4757.5	4716.9	5735.0	10256.9	26887.8	49749.1	51631.0	52302.5	43315.6	25517.7
65°	4237.6	4121.2	3674.4	3593.2	4530.0	13059.4	37464.2	39806.3	44219.9	40277.5	24440.0
67.5°	3980.4	3866.6	3363.0	3059.7	3062.4	5177.2	23259.4	25896.7	34447.7	35140.9	21897.4
70°	3715.0	3612.1	3141.0	2783.5	2607.5	2867.5	10701.0	12702.0	22455.2	27621.6	18301.6
72.5°	3373.8	3303.4	2856.7	2488.4	2301.6	2147.2	4096.8	4838.7	12999.8	18550.7	12710.1
75°	3016.4	2951.4	2569.6	2217.6	1990.2	1689.6	2307.0	2485.7	6604.2	9490.6	6257.6
77.5°	2623.8	2585.9	2285.3	1960.4	1779.0	1399.9	1632.8	1719.4	2832.3	4069.7	3138.3
80°	2087.7	2160.8	1998.3	1746.5	1578.6	1121.0	1156.2	1213.1	1649.0	1987.5	1781.7
82.5°	1359.3	1486.5	1565.1	1418.9	1299.7	882.7	831.3	855.6	1075.0	1213.1	774.4
85°	565.9	636.3	1028.9	928.8	863.8	644.4	557.8	568.6	666.1	690.5	316.8
87.5°	251.8	268.1	452.2	425.1	365.5	222.0	238.3	259.9	354.7	335.8	121.8
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°	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7	17475.7
2.5°	17491.9	17264.5	16874.6	16444.0	16092.0	15810.4	15526.1	15331.2	15103.7	14981.9	14919.6
5°	17505.5	17058.7	16238.3	15396.2	14643.4	13955.6	13300.4	12796.7	12325.6	12071.1	12000.7
7.5°	17562.3	16890.8	15564.0	14177.7	12840.1	11618.9	10676.6	10086.3	9661.2	9471.6	9417.5
10°	17608.4	16693.2	14730.1	12677.6	10858.0	9620.6	8889.5	8559.1	8412.9	8388.5	8364.2
12.5°	17716.7	16490.1	13852.8	11112.5	9317.3	8461.7	8207.1	8185.5	8226.1	8285.7	8285.7
15°	17887.3	16289.7	12850.9	9769.5	8337.1	8036.5	8088.0	8207.1	8318.1	8410.2	8423.8
17.5°	18011.8	16043.3	11773.2	8694.5	7814.5	7895.7	8079.9	8247.7	8361.5	8450.8	8459.0
20°	18101.2	15661.5	10622.4	7874.1	7514.0	7765.8	7995.9	8144.9	8223.4	8312.7	8326.3
22.5°	18055.1	15149.8	9601.6	7286.5	7270.3	7576.2	7795.6	7974.3	7914.7	7828.0	7884.9
25°	17833.1	14445.7	8551.0	6847.9	7013.0	7321.7	7592.5	7473.3	7273.0	7235.1	7256.7
27.5°	17437.8	13546.8	7578.9	6441.7	6715.2	7086.1	7069.9	6950.7	6880.3	6831.6	6861.4
30°	17012.7	12572.0	6728.7	6087.0	6384.8	6690.8	6628.5	6625.8	6555.4	6476.9	6514.8
32.5°	16593.0	11591.8	6054.5	5794.5	6135.7	6176.3	6311.7	6352.3	6214.2	6049.1	6038.2
35°	16227.4	10665.8	5542.7	5529.2	5835.2	5840.6	6038.2	5981.4	5637.5	5466.9	5466.9
37.5°	15953.9	9742.4	5152.8	5290.9	5439.8	5580.6	5680.8	5445.2	5388.4	5293.6	5290.9
40°	15834.8	8930.1	4909.1	5109.5	5160.9	5339.6	5082.4	5174.5	5201.6	5152.8	5152.8
42.5°	15710.3	8223.4	4697.9	4971.4	4963.3	4938.9	4808.9	4928.1	5036.4	5039.1	5031.0
45°	15585.7	7614.1	4511.1	4676.3	4790.0	4527.3	4551.7	4679.0	4830.6	4884.7	4884.7
47.5°	15447.6	7132.2	4340.5	4364.9	4540.9	4364.9	4345.9	4443.4	4622.1	4708.7	4727.7
50°	15144.3	6698.9	4145.5	4091.4	4140.1	4199.7	4215.9	4262.0	4459.6	4597.7	4630.2
52.5°	14724.6	6311.7	3896.4	3839.6	3839.6	4064.3	4140.1	4153.7	4321.5	4486.7	4519.2
55°	14375.3	6065.3	3639.2	3628.4	3617.5	3920.8	4050.8	4072.4	4188.9	4318.8	4335.1
57°	14399.7	6046.4	3441.5	3452.4	3449.6	3774.6	3966.8	4012.9	4072.4	4183.4	4202.4
57.5°	14413.3	6059.9	3398.2	3403.6	3400.9	3734.0	3942.5	3993.9	4039.9	4156.4	4175.3
60°	14616.3	6095.1	3222.2	3162.6	3176.2	3517.3	3804.4	3869.3	3899.1	4053.5	4077.8
62.5°	14315.8	5938.1	3081.4	2937.9	2937.9	3289.9	3612.1	3715.0	3761.0	3969.5	4010.1
65°	13443.9	5496.7	2916.2	2683.4	2710.4	3062.4	3382.0	3549.8	3620.2	3880.2	3923.5
67.5°	12098.1	4984.9	2740.2	2455.9	2483.0	2824.2	3143.7	3325.1	3436.1	3782.7	3817.9
70°	10346.2	4359.4	2501.9	2214.9	2247.4	2564.2	2862.1	3067.9	3233.0	3690.6	3701.5
72.5°	7627.7	3574.2	2168.9	1949.6	1984.8	2261.0	2577.8	2816.0	3038.1	3460.5	3455.1
75°	4535.4	2794.4	1800.6	1681.5	1705.9	1963.1	2320.5	2610.3	2943.3	3371.1	3422.6
77.5°	2751.1	2103.9	1467.6	1408.0	1437.8	1700.5	2136.4	2445.1	2902.7	3178.9	3162.6
80°	1662.5	1502.8	1172.4	1134.5	1164.3	1454.1	1976.6	2320.5	2537.1	2715.9	2715.9
82.5°	869.2	917.9	861.1	831.3	871.9	1180.6	1797.9	2025.4	2242.0	1925.2	1797.9
85°	354.7	479.3	522.6	519.9	544.3	817.7	1551.5	1732.9	1445.9	1372.8	1405.3
87.5°	119.1	203.1	254.5	219.3	230.2	514.5	1075.0	836.7	993.7	693.2	658.0
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)