

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: P317404

Luminaire Tested: **GAN-SA0B-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317404  
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-SA0B-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53666 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

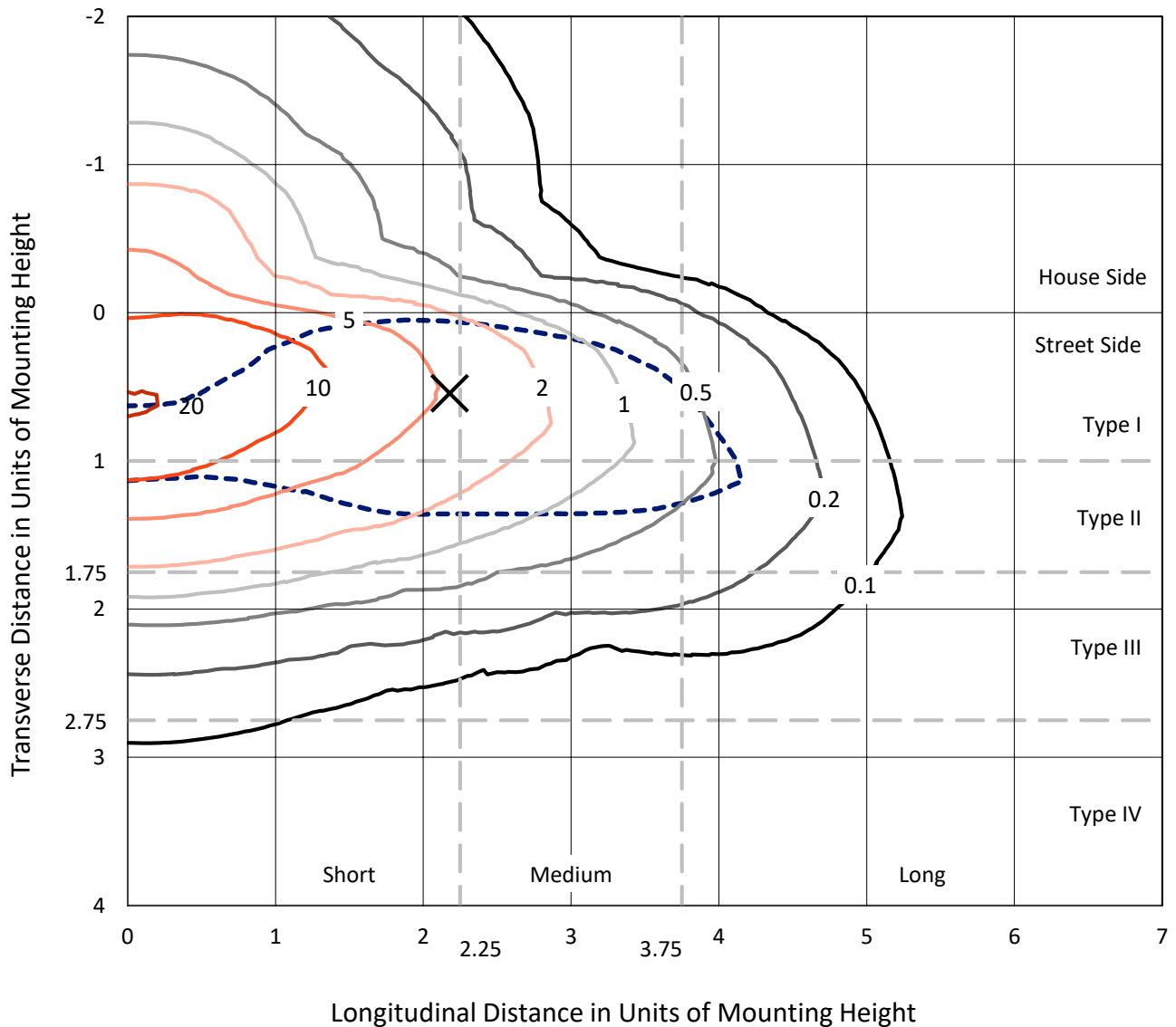
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

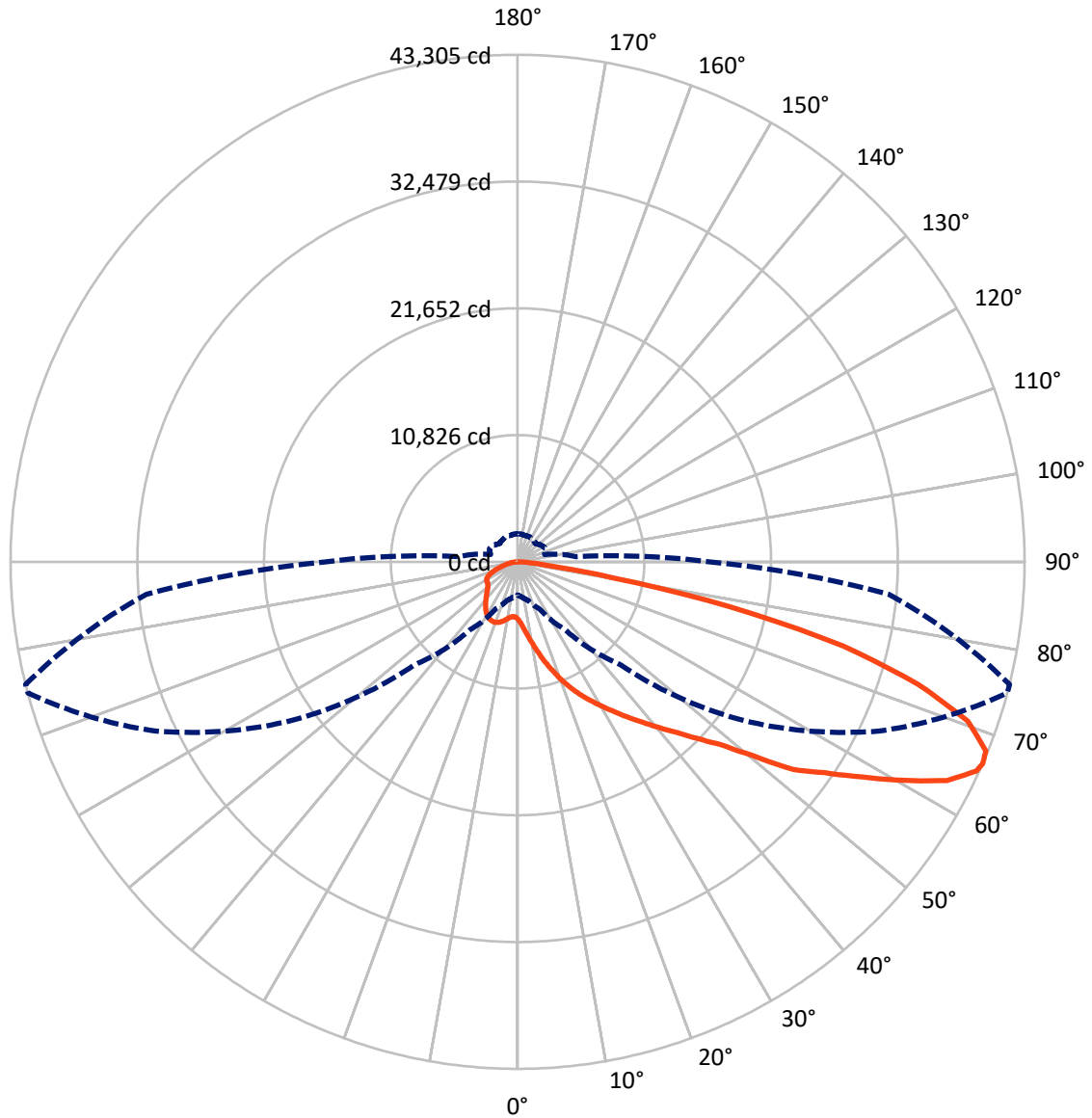
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 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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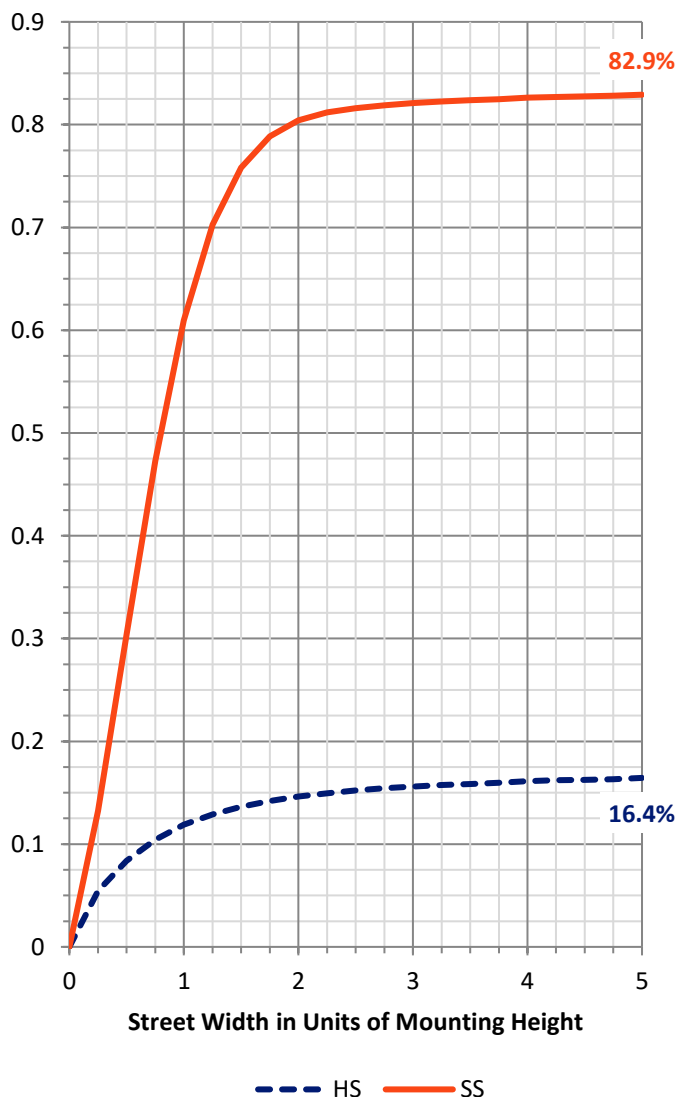
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9030.1	0.0	9030.1
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	44635.9	0.0	44635.9
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	53666.0	0.0	53666.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	592.7	1.1
10°-20°	2340.4	4.4
20°-30°	4547.9	8.5
30°-40°	7423.1	13.8
40°-50°	10141.8	18.9
50°-60°	11813.1	22.0
60°-70°	10590.7	19.7
70°-80°	5352.1	10.0
80°-90°	864.3	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°	53666.0	100.0
0°-180°	53666.0	100.0

**Coefficient of Utilization**

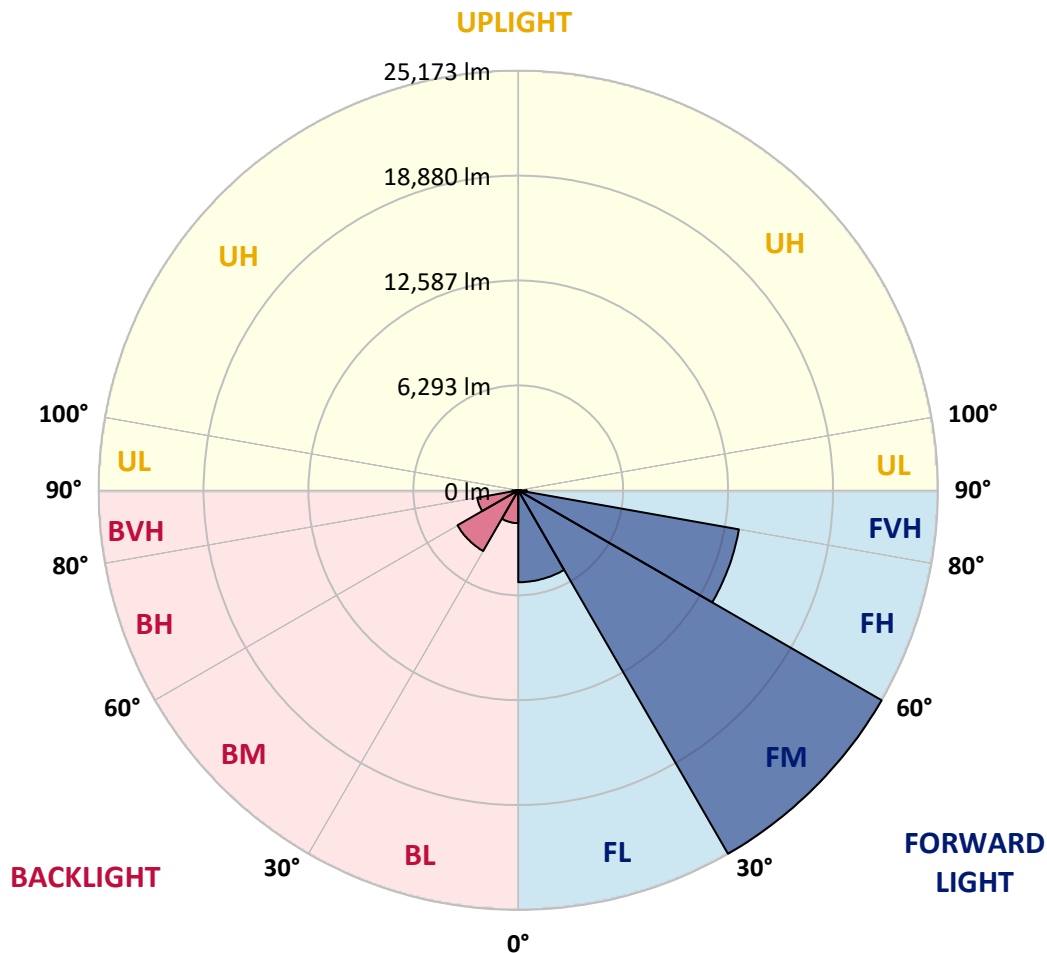


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5511.4	10.3			
FM (30°-60°)	25173.1	46.9			
FH (60°-80°)	13441.0	25.0			G5
FVH (80°-90°)	510.4	1.0			G4/750
BL (0°-30°)	1969.5	3.7	B3/2500		
BM (30°-60°)	4205.0	7.8	B3/5000		
BH (60°-80°)	2501.8	4.7	B4/5000		G4/5000
BVH (80°-90°)	353.9	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°	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9
2.5°	6506.0	6407.6	6398.5	6254.6	6221.8	5946.7	5744.5	5533.1	5292.6	5245.3	5055.8
5°	8357.1	8348.0	8222.2	7987.2	7803.2	7333.2	6868.6	6376.7	5837.4	5749.9	5323.6
7.5°	10022.3	10007.7	9911.1	9657.9	9391.9	8814.4	8151.2	7396.9	6522.4	6393.1	5686.2
10°	11286.7	11281.2	11248.4	11062.6	10836.7	10282.8	9550.4	8521.0	7318.6	7141.9	6139.8
12.5°	12263.2	12274.2	12296.0	12230.4	12122.9	11651.1	10900.4	9712.6	8167.6	7992.7	6644.5
15°	12924.6	12957.4	13070.3	13163.2	13219.7	12930.0	12203.1	10931.4	9118.6	8909.1	7203.8
17.5°	13258.0	13294.4	13489.4	13769.9	14028.6	13999.5	13422.0	12093.8	10031.4	9829.2	7805.0
20°	13545.8	13573.2	13791.8	14128.8	14586.1	14788.4	14464.1	13212.4	11031.6	10791.1	8442.7
22.5°	14380.3	14414.9	14480.5	14671.8	15076.2	15447.9	15291.2	14271.0	11948.0	11723.9	9047.6
25°	15990.8	16032.7	15890.6	15728.5	15805.0	16063.7	16092.9	15236.6	12877.2	12624.0	9698.0
27.5°	17931.2	17991.3	17749.0	17331.8	16967.4	16867.2	16832.6	16027.3	13764.5	13471.1	10341.1
30°	19831.4	19935.3	19620.1	19079.0	18410.3	17940.3	17592.3	16801.6	14639.0	14358.4	10947.8
32.5°	21687.9	21646.0	21188.7	20660.4	19877.0	19288.5	18446.8	17632.4	15622.8	15300.3	11550.9
35°	22959.6	22974.2	22549.7	21922.9	21176.0	20724.1	19590.9	18528.7	16626.7	16329.7	12235.9
37.5°	24041.8	23974.4	23493.4	22908.6	22265.5	22072.3	20930.0	19516.2	17714.4	17390.1	12964.7
40°	24402.6	24324.2	24009.0	23588.2	23072.6	23056.2	22407.6	20634.9	18944.1	18623.5	13786.3
42.5°	24183.9	24083.7	23954.4	23839.6	23681.1	23754.0	23795.9	21946.6	20296.0	19937.1	14737.4
45°	23376.8	23225.6	23316.7	23566.3	23910.6	24322.4	25049.3	23398.7	21810.0	21509.4	15854.2
47.5°	22136.1	21999.5	22283.7	22817.5	23754.0	24796.1	26235.4	25002.0	23617.3	23318.5	17444.7
50°	20390.7	20430.8	20837.1	21808.2	23223.8	25014.7	27696.6	27124.5	26244.5	25965.7	19614.6
52.5°	17526.7	17534.0	18678.1	20272.3	22283.7	24901.8	28507.3	29837.3	29831.8	29494.8	21680.6
55°	14866.7	15028.9	15934.4	18053.2	20760.6	24449.9	29073.9	31156.3	32187.5	31792.2	23606.4
57.5°	12268.7	12363.4	13221.5	15349.5	18587.0	23245.6	29655.1	32739.6	34902.2	34652.6	26000.4
60°	9313.6	9459.3	10346.6	12312.4	15806.8	21108.6	29709.8	34392.0	38147.0	37895.6	28673.1
62.5°	6045.1	6296.5	7127.3	8969.2	12443.6	18035.0	28441.7	35472.4	41222.4	41133.1	31045.2
65°	3474.4	3663.8	4241.4	5662.5	8584.8	14176.2	25426.5	35057.0	43115.3	43064.3	31932.5
66°	2838.5	2956.9	3399.7	4425.4	7083.6	12449.1	23673.8	34180.7	43303.0	43304.8	31830.4
67.5°	2270.1	2322.9	2521.5	3168.3	5227.0	9867.4	20541.9	32247.7	43069.8	43133.5	31172.7
70°	1878.4	1905.7	1967.7	2124.3	2853.1	5950.3	14580.7	27224.7	40728.6	40777.8	28605.7
72.5°	1685.3	1701.7	1725.3	1747.2	2013.2	3325.0	8905.5	21779.0	35709.3	35773.0	24694.1
75°	1526.8	1535.9	1532.2	1534.0	1688.9	2118.9	4602.1	16260.5	28873.5	28746.0	18916.8
77.5°	1340.9	1350.0	1331.8	1335.5	1494.0	1628.8	2290.1	11383.2	19485.2	18585.2	10658.1
80°	1133.2	1140.5	1133.2	1146.0	1300.8	1229.8	1331.8	6404.0	8615.8	8149.4	3789.6
82.5°	856.3	887.3	909.1	960.1	1071.3	874.5	890.9	2494.2	2623.5	2497.8	1162.4
85°	375.3	457.3	685.0	734.2	805.3	524.7	584.8	1016.6	1067.6	1034.8	422.7
87.5°	98.4	107.5	338.9	426.3	446.4	236.8	304.3	462.8	488.3	462.8	140.3
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°	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9	4900.9
2.5°	4955.6	4866.3	4706.0	4563.9	4456.4	4383.5	4310.6	4274.2	4252.3	4230.5	4234.1
5°	5114.1	4933.7	4658.6	4463.7	4354.3	4285.1	4248.7	4234.1	4225.0	4203.1	4203.1
7.5°	5352.7	5097.7	4718.7	4518.3	4432.7	4379.9	4358.0	4350.7	4339.8	4314.3	4317.9
10°	5653.4	5296.3	4844.4	4649.5	4571.2	4512.9	4481.9	4470.9	4450.9	4421.8	4425.4
12.5°	6006.8	5542.2	5010.2	4806.2	4711.4	4633.1	4582.1	4551.1	4516.5	4478.2	4480.1
15°	6393.1	5810.0	5188.8	4946.5	4817.1	4707.8	4625.8	4573.0	4518.3	4470.9	4469.1
17.5°	6784.8	6068.8	5325.4	5023.0	4848.1	4704.2	4593.0	4511.0	4443.6	4385.3	4379.9
20°	7207.4	6302.0	5401.9	5015.7	4789.8	4618.5	4470.9	4368.9	4294.2	4235.9	4226.8
22.5°	7637.4	6520.6	5414.7	4941.0	4660.4	4450.9	4296.0	4183.1	4106.6	4046.4	4024.6
25°	8030.9	6690.0	5361.9	4797.1	4480.1	4254.1	4102.9	3988.1	3926.2	3855.1	3833.3
27.5°	8389.9	6808.4	5256.2	4613.1	4277.8	4055.6	3913.4	3815.1	3747.7	3693.0	3674.8
30°	8712.3	6872.2	5083.1	4394.4	4070.1	3867.9	3747.7	3680.2	3621.9	3552.7	3540.0
32.5°	9018.4	6872.2	4860.8	4155.8	3864.3	3702.1	3631.1	3589.1	3523.6	3456.1	3437.9
35°	9324.5	6830.3	4598.5	3906.2	3674.8	3583.7	3580.0	3530.8	3430.6	3339.5	3315.9
37.5°	9647.0	6744.7	4303.3	3673.0	3519.9	3530.8	3561.8	3452.5	3310.4	3181.0	3146.4
40°	10011.4	6626.3	3997.3	3470.7	3390.6	3507.2	3512.6	3339.5	3062.6	2944.2	2913.2
42.5°	10439.5	6507.8	3713.0	3292.2	3288.5	3436.1	3419.7	3095.4	2929.6	2869.5	2853.1
45°	11002.5	6440.4	3443.4	3122.7	3208.4	3321.3	3261.2	2960.6	2891.4	2856.7	2842.2
47.5°	11889.7	6475.0	3195.6	2987.9	3128.2	3206.5	2966.1	2905.9	2856.7	2814.8	2800.3
50°	13001.1	6455.0	2995.2	2895.0	3037.1	3086.3	2833.1	2834.9	2809.4	2762.0	2740.1
52.5°	13837.3	6298.3	2865.9	2842.2	2956.9	2873.1	2749.3	2765.6	2752.9	2683.7	2660.0
55°	14644.4	6163.5	2800.3	2822.1	2898.6	2607.1	2650.9	2690.9	2678.2	2610.8	2599.9
57.5°	15648.3	6138.0	2760.2	2827.6	2849.5	2474.1	2556.1	2609.0	2599.9	2570.7	2565.2
60°	16878.1	6145.3	2723.7	2836.7	2794.8	2375.8	2466.9	2534.3	2539.7	2534.3	2530.6
62.5°	17554.0	5946.7	2632.6	2811.2	2698.2	2290.1	2373.9	2472.3	2474.1	2485.1	2483.3
65°	16980.1	5352.7	2463.2	2721.9	2536.1	2219.1	2293.8	2401.3	2373.9	2423.1	2423.1
66°	16422.6	5010.2	2379.4	2663.6	2466.9	2191.7	2268.3	2364.8	2330.2	2397.6	2397.6
67.5°	15283.9	4432.7	2228.2	2539.7	2368.5	2153.5	2239.1	2304.7	2257.3	2357.5	2350.3
70°	13203.3	3428.8	1923.9	2259.2	2206.3	2097.0	2199.0	2184.5	2115.2	2268.3	2239.1
72.5°	11131.8	2605.3	1545.0	1891.1	1960.4	2026.0	2142.6	2031.4	1944.0	2051.5	1987.7
75°	8637.6	1958.5	1220.7	1470.3	1656.1	1914.8	2075.1	1854.7	1729.0	1718.1	1683.4
77.5°	4669.5	1344.6	967.4	1122.3	1315.4	1776.4	2029.6	1665.2	1475.7	1432.0	1404.7
80°	1849.2	874.5	703.3	850.8	920.1	1575.9	1920.3	1444.8	1217.0	1173.3	1131.4
82.5°	763.4	517.4	453.7	570.3	599.4	1348.2	1723.5	1184.2	940.1	1300.8	1381.0
85°	327.9	284.2	269.6	295.1	338.9	945.6	1371.9	903.7	1014.8	905.5	719.7
87.5°	98.4	120.2	114.8	113.0	123.9	225.9	730.6	502.8	745.2	282.4	211.3
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)