

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: P317464

Luminaire Tested: **GAN-SA0D-740-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317464  
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-740-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 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: 80010 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

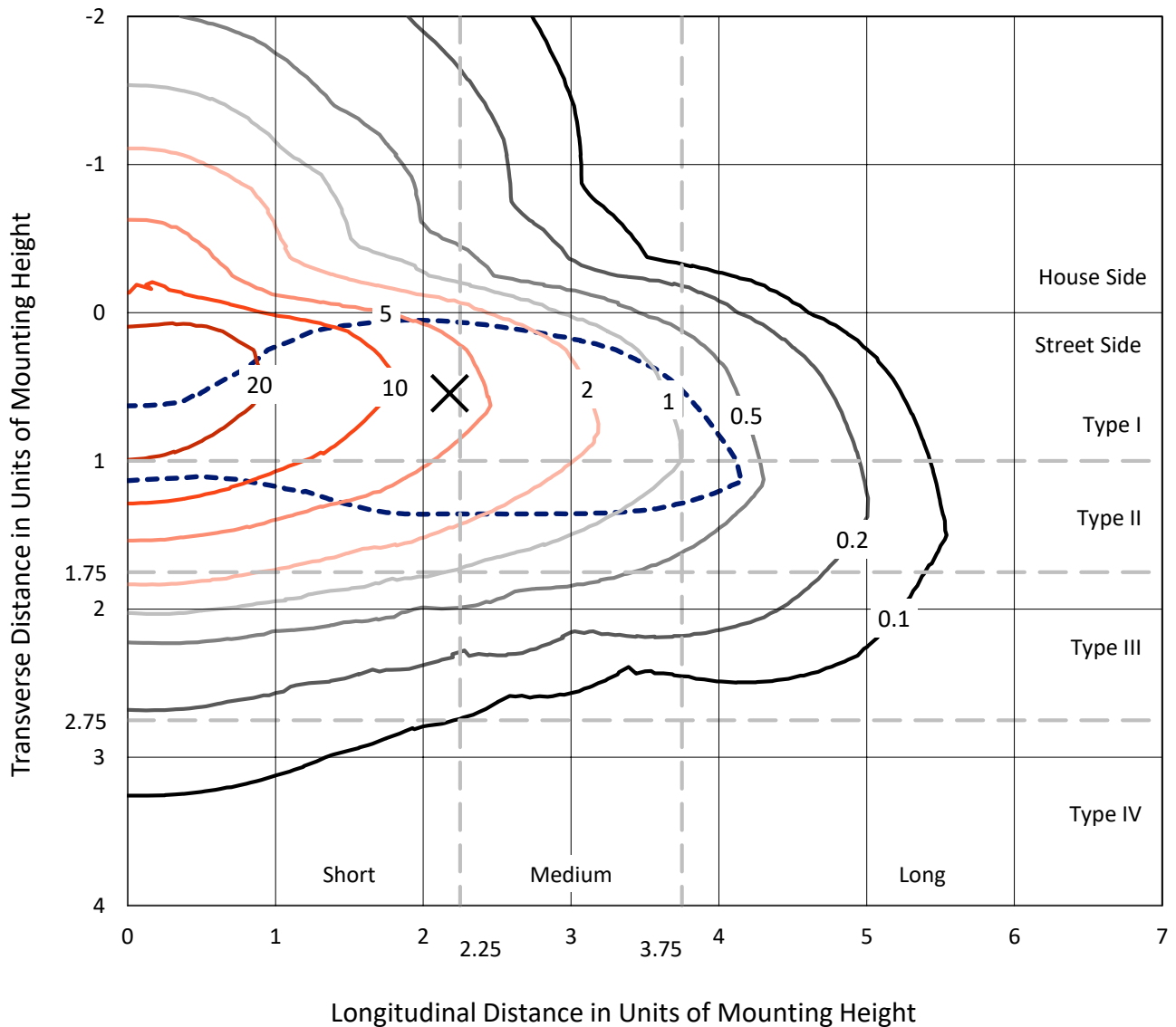
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

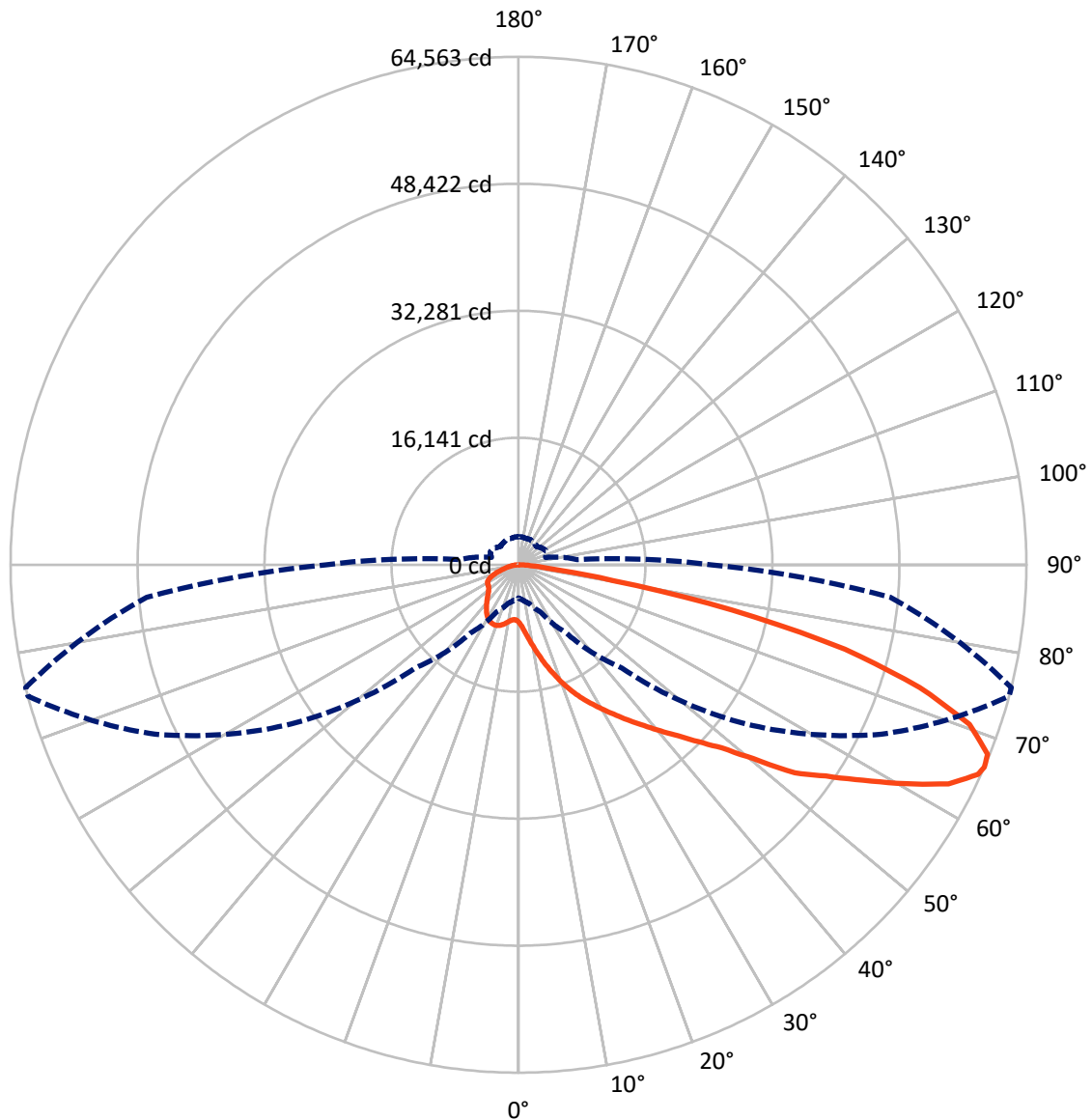
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31 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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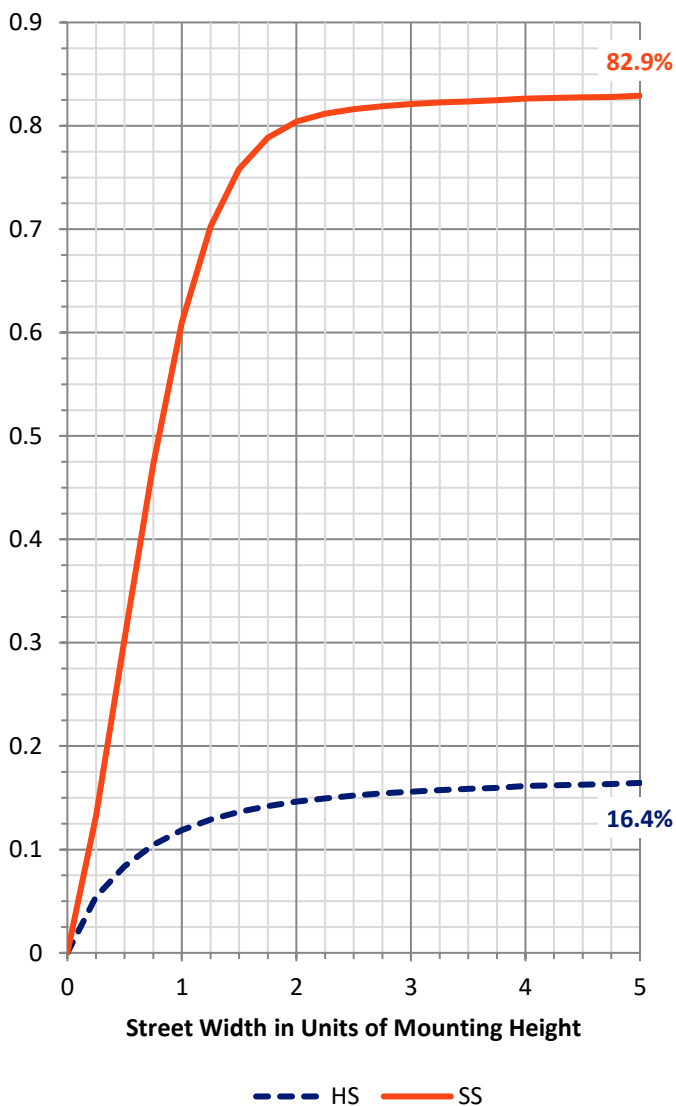
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13462.9	0.0	13462.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	66547.1	0.0	66547.1
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	80010.0	0.0	80010.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	883.6	1.1
10°-20°	3489.2	4.4
20°-30°	6780.4	8.5
30°-40°	11067.1	13.8
40°-50°	15120.3	18.9
50°-60°	17612.1	22.0
60°-70°	15789.5	19.7
70°-80°	7979.4	10.0
80°-90°	1288.6	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°	80010.0	100.0
0°-180°	80010.0	100.0

**Coefficient of Utilization**

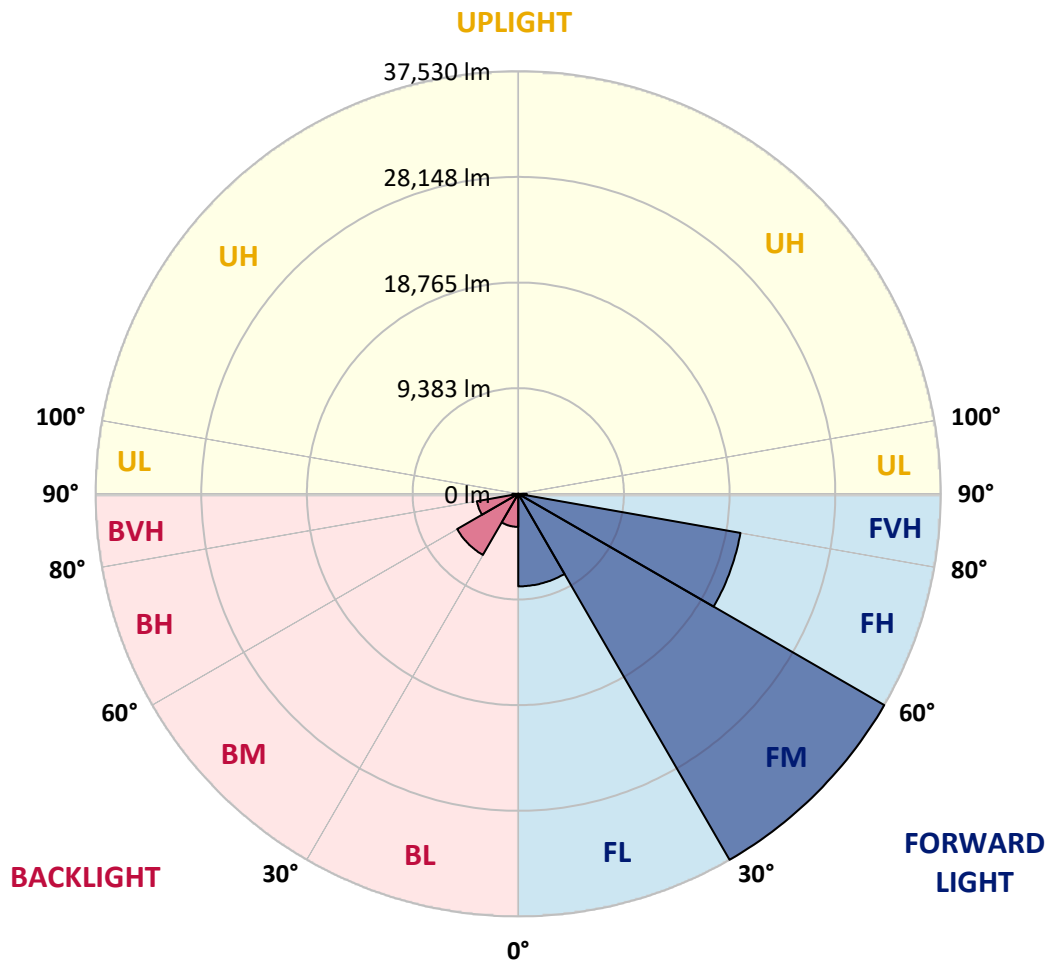


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8216.8	10.3			
FM (30°-60°)	37530.2	46.9			
FH (60°-80°)	20039.1	25.0			G5
FVH (80°-90°)	761.0	1.0			G5
BL (0°-30°)	2936.3	3.7	B4/5000		
BM (30°-60°)	6269.2	7.8	B4/8500		
BH (60°-80°)	3729.9	4.7	B4/5000		G4/5000
BVH (80°-90°)	527.6	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°	65°	75°	76°	85°
0°	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7
2.5°	9699.7	9553.1	9539.5	9324.9	9276.0	8865.8	8564.3	8249.3	7890.7	7820.1	7537.6
5°	12459.4	12445.9	12258.4	11908.0	11633.7	10932.9	10240.3	9506.9	8702.9	8572.5	7936.9
7.5°	14942.1	14920.4	14776.4	14398.9	14002.3	13141.2	12152.5	11028.0	9724.2	9531.3	8477.4
10°	16827.2	16819.0	16770.1	16493.1	16156.3	15330.5	14238.6	12703.9	10911.2	10647.7	9153.8
12.5°	18283.1	18299.4	18332.0	18234.2	18073.9	17370.4	16251.3	14480.3	12177.0	11916.2	9906.2
15°	19269.1	19318.0	19486.4	19624.9	19709.1	19277.2	18193.5	16297.5	13594.8	13282.5	10740.1
17.5°	19766.2	19820.5	20111.1	20529.4	20915.1	20871.7	20010.6	18030.5	14955.7	14654.2	11636.4
20°	20195.3	20236.1	20562.0	21064.5	21746.3	22047.8	21564.3	19698.3	16446.9	16088.4	12587.1
22.5°	21439.4	21491.0	21588.8	21874.0	22477.0	23031.1	22797.5	21276.4	17813.2	17479.1	13488.9
25°	23840.5	23903.0	23691.1	23449.4	23563.5	23949.2	23992.7	22716.0	19198.5	18820.9	14458.6
27.5°	26733.4	26823.0	26461.7	25839.7	25296.5	25147.1	25095.5	23894.9	20521.3	20084.0	15417.4
30°	29566.4	29721.2	29251.3	28444.6	27447.7	26746.9	26228.1	25049.3	21825.1	21406.8	16322.0
32.5°	32334.3	32271.8	31590.0	30802.3	29634.3	28757.0	27502.1	26287.9	23291.9	22811.1	17221.0
35°	34230.2	34251.9	33619.0	32684.7	31571.0	30897.4	29207.9	27624.3	24788.5	24345.8	18242.3
37.5°	35843.7	35743.2	35026.1	34154.2	33195.3	32907.4	31204.3	29096.5	26410.1	25926.6	19328.8
40°	36381.5	36264.7	35794.8	35167.3	34398.6	34374.2	33407.2	30764.3	28243.6	27765.5	20553.9
42.5°	36055.5	35906.1	35713.3	35542.2	35305.8	35414.5	35477.0	32720.0	30259.0	29723.9	21971.8
45°	34852.2	34626.8	34762.6	35134.7	35648.1	36262.0	37345.7	34884.8	32516.3	32068.1	23636.8
47.5°	33002.5	32798.7	33222.5	34018.3	35414.5	36968.2	39114.0	37275.1	35210.8	34765.3	26008.1
50°	30400.3	30460.0	31065.8	32513.5	34624.1	37294.1	41292.5	40439.6	39127.6	38712.0	29243.2
52.5°	26130.3	26141.2	27847.0	30223.7	33222.5	37125.7	42501.2	44484.1	44475.9	43973.4	32323.4
55°	22164.6	22406.4	23756.3	26915.3	30951.7	36452.1	43345.9	46450.6	47988.0	47398.6	35194.5
57.5°	18291.2	18432.5	19711.8	22884.4	27711.2	34656.7	44212.4	48811.0	52035.2	51663.1	38763.6
60°	13885.5	14102.8	15425.6	18356.4	23566.2	31470.5	44293.9	51274.7	56872.9	56498.0	42748.4
62.5°	9012.5	9387.4	10626.0	13372.1	18552.0	26888.2	42403.4	52885.4	61457.9	61324.8	46284.9
65°	5179.9	5462.4	6323.4	8442.1	12799.0	21135.2	37908.0	52266.1	64280.1	64204.0	47607.7
66°	4231.9	4408.5	5068.5	6597.8	10560.8	18560.1	35295.0	50959.6	64559.9	64562.6	47455.6
67.5°	3384.4	3463.2	3759.3	4723.6	7792.9	14711.2	30625.7	48077.7	64212.2	64307.3	46475.1
70°	2800.5	2841.2	2933.6	3167.1	4253.7	8871.3	21738.2	40589.0	60721.8	60795.1	42647.9
72.5°	2512.5	2537.0	2572.3	2604.9	3001.5	4957.2	13277.0	32470.1	53238.5	53333.6	36816.1
75°	2276.2	2289.8	2284.4	2287.1	2518.0	3159.0	6861.3	24242.5	43047.2	42857.0	28202.8
77.5°	1999.2	2012.7	1985.6	1991.0	2227.3	2428.3	3414.3	16971.1	29050.3	27708.5	15890.1
80°	1689.5	1700.4	1689.5	1708.5	1939.4	1833.5	1985.6	9547.6	12845.2	12149.8	5649.8
82.5°	1276.6	1322.8	1355.4	1431.5	1597.2	1303.8	1328.2	3718.5	3911.4	3724.0	1733.0
85°	559.5	681.8	1021.3	1094.6	1200.6	782.3	871.9	1515.7	1591.7	1542.8	630.2
87.5°	146.7	160.3	505.2	635.6	665.5	353.1	453.6	689.9	728.0	689.9	209.2
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°	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7	7306.7
2.5°	7388.2	7255.1	7016.1	6804.2	6644.0	6535.3	6426.7	6372.3	6339.7	6307.1	6312.6
5°	7624.5	7355.6	6945.5	6654.8	6491.8	6388.6	6334.3	6312.6	6299.0	6266.4	6266.4
7.5°	7980.3	7600.1	7035.1	6736.3	6608.6	6529.9	6497.3	6486.4	6470.1	6432.1	6437.5
10°	8428.5	7896.1	7222.5	6931.9	6815.1	6728.2	6682.0	6665.7	6635.8	6592.3	6597.8
12.5°	8955.5	8262.8	7469.7	7165.5	7024.2	6907.4	6831.4	6785.2	6733.6	6676.5	6679.3
15°	9531.3	8662.1	7735.9	7374.6	7181.8	7018.8	6896.6	6817.8	6736.3	6665.7	6663.0
17.5°	10115.3	9047.8	7939.6	7488.7	7227.9	7013.4	6847.7	6725.4	6624.9	6538.0	6529.9
20°	10745.5	9395.5	8053.7	7477.8	7141.0	6885.7	6665.7	6513.6	6402.2	6315.3	6301.7
22.5°	11386.5	9721.5	8072.7	7366.5	6948.2	6635.8	6404.9	6236.5	6122.4	6032.8	6000.2
25°	11973.2	9974.1	7993.9	7151.9	6679.3	6342.4	6117.0	5945.9	5853.5	5747.6	5715.0
27.5°	12508.3	10150.6	7836.4	6877.5	6377.8	6046.4	5834.5	5687.8	5587.3	5505.8	5478.7
30°	12989.1	10245.7	7578.3	6551.6	6068.1	5766.6	5587.3	5486.8	5399.9	5296.7	5277.7
32.5°	13445.4	10245.7	7247.0	6195.8	5761.2	5519.4	5413.5	5351.0	5253.2	5152.7	5125.6
35°	13901.8	10183.2	6855.8	5823.6	5478.7	5342.9	5337.4	5264.1	5114.7	4978.9	4943.6
37.5°	14382.6	10055.6	6415.8	5476.0	5247.8	5264.1	5310.3	5147.3	4935.4	4742.6	4691.0
40°	14925.8	9879.0	5959.5	5174.5	5054.9	5228.8	5236.9	4978.9	4566.0	4389.5	4343.3
42.5°	15564.1	9702.5	5535.7	4908.3	4902.8	5122.9	5098.4	4614.9	4367.7	4278.1	4253.7
45°	16403.4	9602.0	5133.7	4655.7	4783.3	4951.7	4862.1	4413.9	4310.7	4259.1	4237.4
47.5°	17726.3	9653.6	4764.3	4454.7	4663.8	4780.6	4422.1	4332.4	4259.1	4196.6	4174.9
50°	19383.2	9623.7	4465.5	4316.1	4528.0	4601.3	4223.8	4226.5	4188.5	4117.8	4085.2
52.5°	20629.9	9390.1	4272.7	4237.4	4408.5	4283.5	4098.8	4123.3	4104.3	4001.0	3965.7
55°	21833.2	9189.1	4174.9	4207.5	4321.6	3887.0	3952.1	4011.9	3992.9	3892.4	3876.1
57.5°	23329.9	9151.1	4115.1	4215.6	4248.2	3688.7	3810.9	3889.7	3876.1	3832.6	3824.5
60°	25163.4	9161.9	4060.8	4229.2	4166.7	3542.0	3677.8	3778.3	3786.5	3778.3	3772.9
62.5°	26171.1	8865.8	3925.0	4191.2	4022.8	3414.3	3539.3	3686.0	3688.7	3705.0	3702.3
65°	25315.5	7980.3	3672.4	4058.1	3781.0	3308.4	3419.8	3580.0	3539.3	3612.6	3612.6
66°	24484.3	7469.7	3547.4	3971.2	3677.8	3267.7	3381.7	3525.7	3474.1	3574.6	3574.6
67.5°	22786.6	6608.6	3322.0	3786.5	3531.1	3210.6	3338.3	3436.1	3365.4	3514.8	3504.0
70°	19684.7	5112.0	2868.4	3368.2	3289.4	3126.4	3278.5	3256.8	3153.6	3381.7	3338.3
72.5°	16596.3	3884.2	2303.4	2819.5	2922.7	3020.5	3194.3	3028.6	2898.2	3058.5	2963.4
75°	12877.8	2920.0	1819.9	2192.0	2469.1	2854.8	3093.8	2765.1	2577.7	2561.4	2509.8
77.5°	6961.8	2004.6	1442.3	1673.2	1961.1	2648.3	3025.9	2482.7	2200.2	2135.0	2094.2
80°	2757.0	1303.8	1048.5	1268.5	1371.7	2349.6	2862.9	2154.0	1814.5	1749.3	1686.8
82.5°	1138.1	771.4	676.3	850.2	893.6	2010.0	2569.6	1765.6	1401.6	1939.4	2058.9
85°	488.9	423.7	402.0	440.0	505.2	1409.7	2045.3	1347.3	1513.0	1350.0	1072.9
87.5°	146.7	179.3	171.1	168.4	184.7	336.8	1089.2	749.7	1110.9	421.0	315.1
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)