

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: P319399

Luminaire Tested: **GAN-SA5B-750-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5B-750-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27980 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

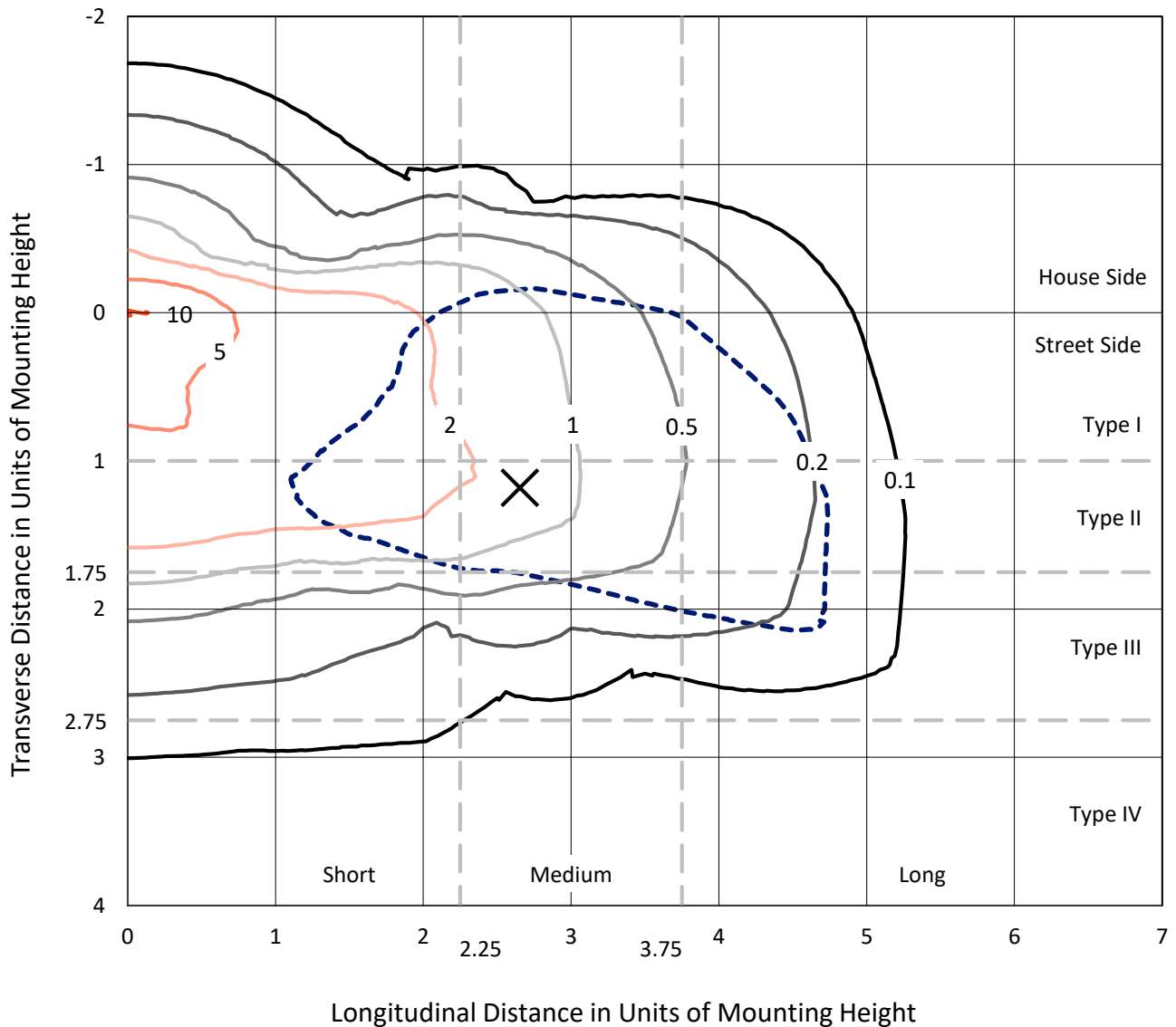
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

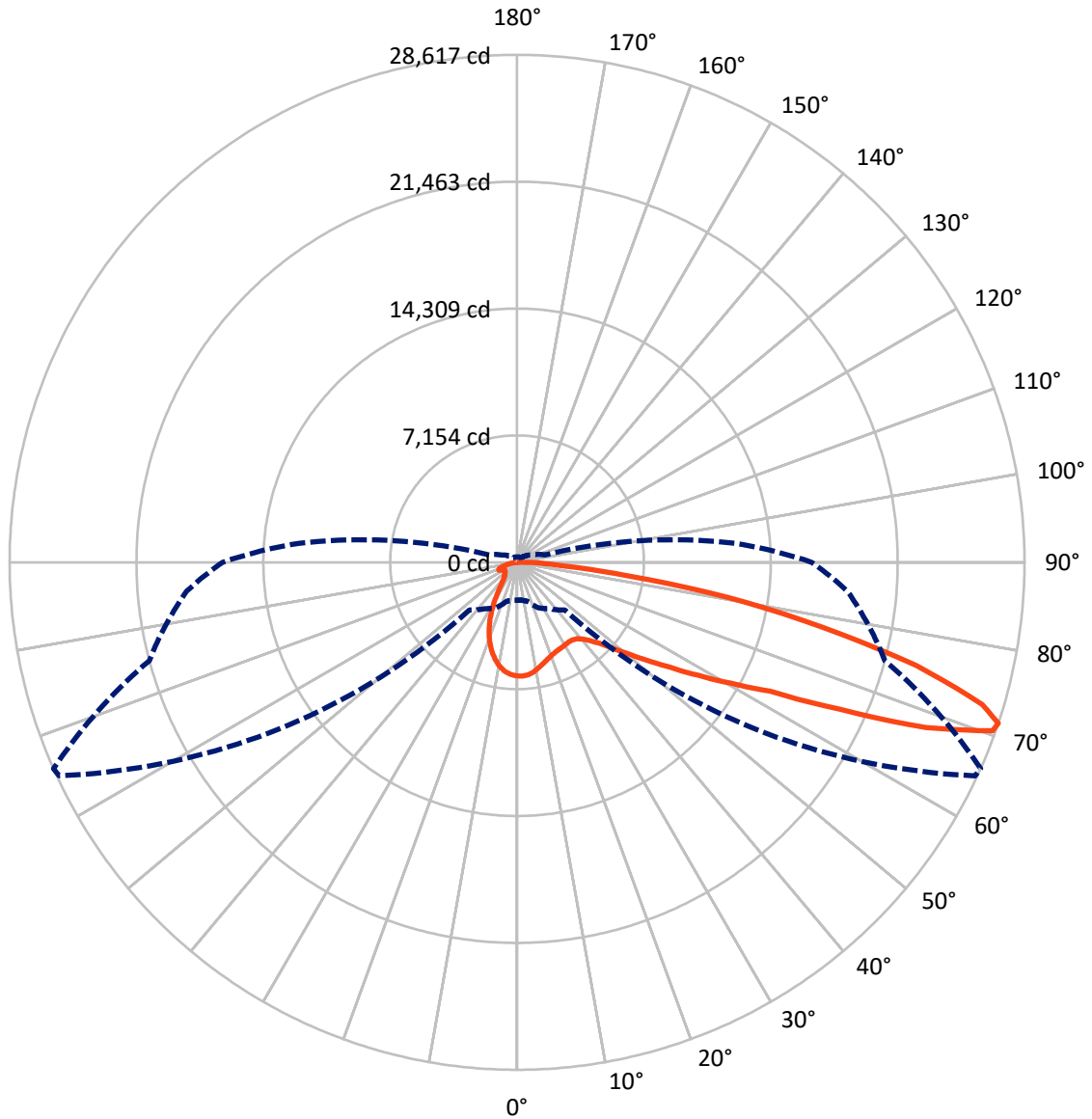
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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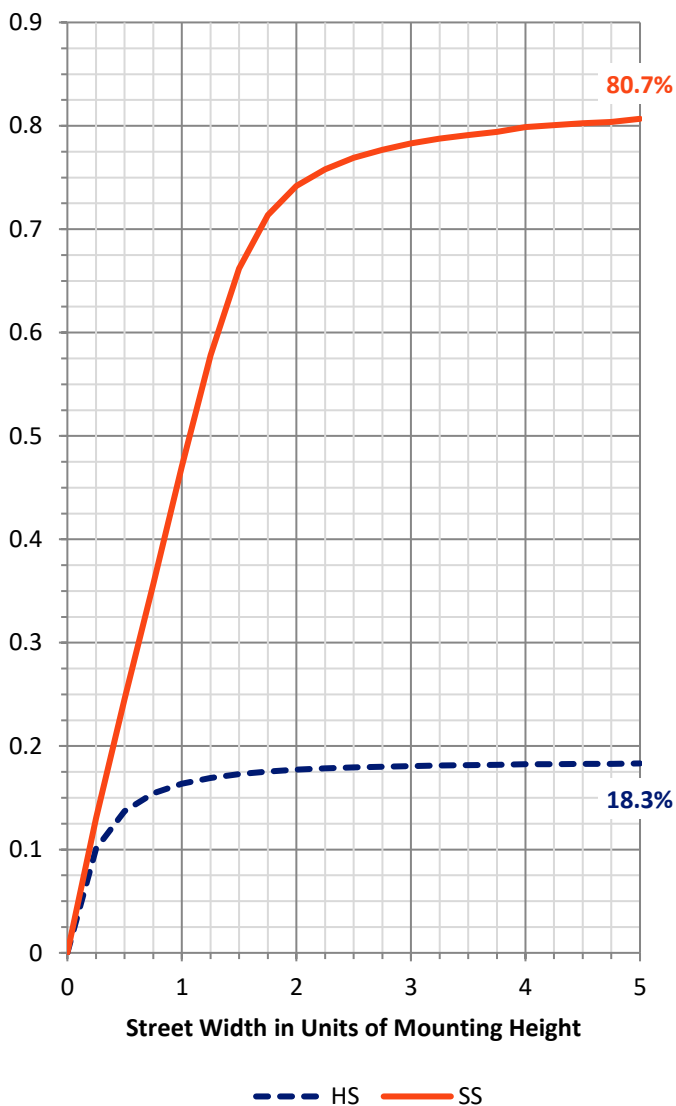
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5185.5	0.0	5185.5
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	22794.5	0.0	22794.5
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	27980.0	0.0	27980.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.2	2.0
10°-20°	1353.2	4.8
20°-30°	1817.7	6.5
30°-40°	2391.2	8.5
40°-50°	3478.5	12.4
50°-60°	5433.8	19.4
60°-70°	6806.7	24.3
70°-80°	5192.0	18.6
80°-90°	942.8	3.4
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°	27980.0	100.0
0°-180°	27980.0	100.0

**Coefficient of Utilization**

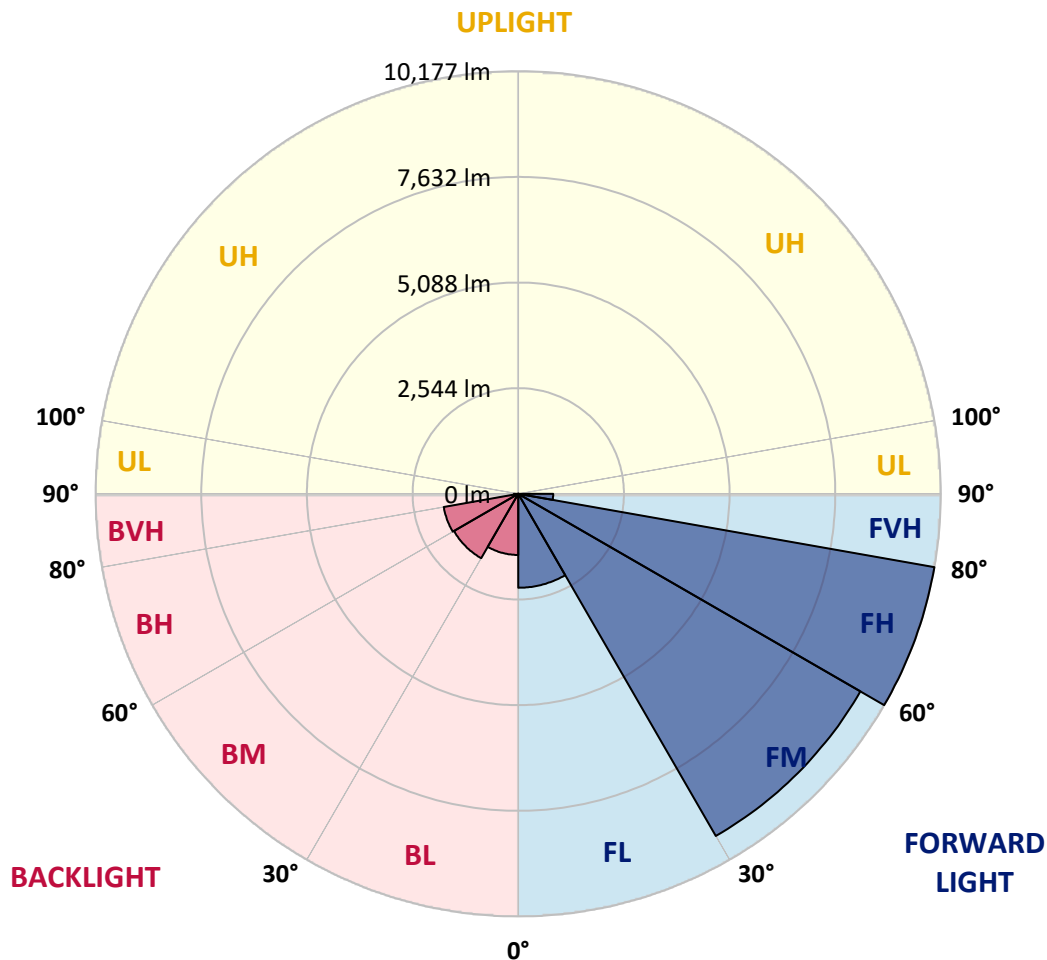


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2262.6	8.1			
FM (30°-60°)	9514.6	34.0			
FH (60°-80°)	10176.6	36.4			G4/12000
FVH (80°-90°)	840.8	3.0			G5
BL (0°-30°)	1472.5	5.3	B3/2500		
BM (30°-60°)	1788.8	6.4	B2/2500		
BH (60°-80°)	1822.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	102.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7
2.5°	6290.9	6281.2	6310.2	6340.1	6351.7	6371.0	6400.0	6416.4	6415.5	6418.4	6408.7
5°	5873.5	5861.0	5918.9	5966.3	6057.1	6159.5	6284.1	6373.0	6374.9	6425.1	6438.7
7.5°	5478.4	5469.7	5536.4	5612.7	5718.0	5874.5	6076.4	6267.7	6279.3	6415.5	6462.8
10°	5161.6	5159.6	5224.3	5307.4	5430.1	5605.0	5836.8	6117.0	6134.4	6369.1	6466.7
12.5°	4914.2	4918.1	4974.1	5068.8	5198.3	5380.8	5632.0	5947.9	5975.9	6295.7	6444.5
15°	4731.7	4747.1	4792.5	4888.2	5015.7	5201.2	5459.1	5791.4	5833.9	6213.6	6431.9
17.5°	4627.3	4644.7	4676.6	4755.8	4875.6	5054.3	5298.7	5662.9	5701.6	6150.8	6432.9
20°	4596.4	4610.9	4629.3	4677.6	4779.0	4941.3	5172.2	5547.0	5588.5	6100.5	6442.5
22.5°	4657.3	4667.9	4669.8	4666.0	4727.8	4860.1	5080.4	5462.0	5506.4	6067.7	6449.3
25°	4787.7	4802.2	4791.6	4755.8	4735.5	4816.7	5033.1	5406.0	5450.4	6043.5	6435.8
27.5°	4983.8	4985.7	4977.0	4930.7	4835.0	4821.5	5018.6	5373.1	5415.6	6015.5	6407.7
30°	5250.4	5263.0	5247.5	5184.7	5028.2	4898.8	5036.0	5341.2	5379.9	5979.8	6362.3
32.5°	5562.5	5593.4	5592.4	5526.7	5302.6	5071.7	5107.5	5321.9	5351.9	5942.1	6307.3
35°	5886.1	5928.6	6007.8	5979.8	5702.5	5345.1	5244.6	5352.8	5373.1	5937.3	6268.6
37.5°	6222.3	6264.8	6428.0	6503.4	6178.8	5736.3	5461.0	5462.0	5471.7	5996.2	6265.7
40°	6573.9	6619.3	6864.7	7060.8	6796.1	6231.9	5809.8	5690.0	5679.3	6141.1	6322.7
42.5°	7066.6	7107.2	7401.8	7652.0	7481.0	6866.6	6291.8	6041.6	6019.4	6425.1	6505.3
45°	7689.7	7724.5	8037.5	8305.0	8217.1	7591.1	6897.5	6525.6	6521.7	6898.5	6875.3
47.5°	8430.6	8457.7	8738.8	8997.7	9029.6	8424.8	7658.8	7272.4	7209.6	7547.7	7448.2
50°	9202.5	9232.4	9423.7	9701.9	9938.6	9540.6	8638.3	8187.2	8103.1	8404.5	8259.6
52.5°	9713.5	9753.1	9919.3	10271.9	10960.7	10763.6	9796.6	9296.2	9168.7	9443.0	9331.9
55°	9485.5	9574.4	9828.5	10393.6	11778.0	12631.9	11225.4	10589.7	10445.8	10673.8	10608.1
57.5°	8449.0	8570.7	8917.5	9789.9	11892.9	14278.1	13385.5	12113.2	12011.7	11946.1	11976.0
60°	6554.6	6671.5	7101.4	8238.4	11092.1	15479.8	16636.2	13991.2	13844.3	13223.2	13250.2
62.5°	4638.9	4580.0	4874.6	5706.4	9013.2	15620.9	20335.1	16502.9	16019.8	14571.7	14452.9
65°	3537.6	3524.1	3656.5	3921.2	5459.1	13933.2	22538.7	20724.5	19970.0	16158.0	15877.8
67.5°	2906.8	2882.7	3013.1	3398.5	3515.4	8989.0	22587.0	25622.3	24881.3	18132.6	17525.9
70°	2390.0	2362.9	2484.7	2982.2	3248.8	4558.7	19009.7	28490.5	28450.8	20632.7	18770.2
71°	2142.7	2123.4	2269.2	2821.8	3191.8	3799.4	16413.0	28498.2	28617.0	21478.9	18696.7
72.5°	1744.7	1751.4	1906.0	2511.7	3149.3	3355.1	12062.9	27169.9	27421.0	22285.6	18029.2
75°	1159.2	1165.0	1367.9	1932.1	3053.7	3282.6	6629.9	22798.5	23260.3	21802.6	16451.7
77.5°	778.6	776.7	914.8	1325.4	2660.5	3282.6	3887.3	17051.6	17558.7	17348.1	12683.1
80°	536.2	532.3	629.9	914.8	2014.2	3322.2	3005.4	11949.9	12103.5	9368.7	5154.8
82.5°	328.5	331.4	411.5	646.3	1370.8	2989.9	2837.3	6515.9	6348.8	2627.6	1287.7
85°	188.4	187.4	262.8	437.6	880.1	2523.3	2766.7	2804.4	2572.6	791.2	465.6
87.5°	67.6	72.5	141.0	242.5	504.3	1757.2	2347.5	1458.7	1314.8	357.4	210.6
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°	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7
2.5°	6401.9	6407.7	6401.0	6362.3	6329.5	6276.4	6246.4	6204.9	6192.3	6186.5	6202.0
5°	6426.1	6428.0	6371.0	6269.6	6155.6	6021.3	5924.7	5805.9	5749.9	5725.7	5741.2
7.5°	6448.3	6439.6	6315.0	6120.8	5910.2	5676.5	5468.8	5278.4	5167.3	5121.9	5125.8
10°	6451.2	6414.5	6214.5	5914.1	5587.6	5244.6	4925.8	4632.2	4446.7	4325.9	4362.6
12.5°	6421.3	6359.4	6066.7	5646.5	5193.4	4725.9	4295.0	3854.5	3589.8	3467.1	3471.0
15°	6398.1	6286.0	5885.1	5331.6	4723.0	4103.7	3515.4	2997.6	2715.5	2590.0	2531.0
17.5°	6378.8	6206.8	5674.5	4977.0	4167.5	3382.1	2675.0	2213.2	2058.6	2021.9	2006.5
20°	6351.7	6122.8	5439.8	4566.5	3534.7	2574.5	1953.3	1725.3	1726.3	1768.8	1774.6
22.5°	6314.0	6027.1	5189.6	4105.7	2855.6	1875.1	1531.2	1465.5	1532.1	1613.3	1627.8
25°	6258.0	5914.1	4911.3	3596.6	2177.5	1441.3	1308.0	1305.1	1386.3	1471.3	1483.8
27.5°	6178.8	5766.3	4602.2	3049.8	1604.6	1224.9	1171.8	1192.1	1252.0	1313.8	1318.6
30°	6072.5	5594.3	4261.2	2473.1	1257.8	1090.7	1084.9	1103.2	1139.9	1183.4	1187.3
32.5°	5955.6	5419.5	3897.0	1914.7	1077.1	1018.2	1024.0	1032.7	1050.1	1067.5	1071.3
35°	5849.4	5240.8	3524.1	1454.9	991.2	970.9	967.0	965.1	967.0	961.2	962.2
37.5°	5780.8	5093.0	3135.8	1158.3	941.9	929.3	917.7	903.2	886.8	877.2	879.1
40°	5755.7	4982.8	2742.6	1000.8	901.3	892.6	870.4	839.5	820.2	814.4	814.4
42.5°	5823.3	4925.8	2362.9	921.6	867.5	853.0	816.3	780.6	766.1	765.1	764.1
45°	6030.0	4949.0	2001.6	878.1	836.6	808.6	760.3	730.3	720.7	722.6	721.6
47.5°	6401.0	5094.9	1692.5	849.1	805.7	769.0	714.9	690.7	679.1	679.1	680.1
50°	7031.8	5435.9	1446.2	825.0	779.6	732.3	682.0	652.1	636.6	635.7	635.7
52.5°	7950.5	6046.4	1292.6	804.7	750.6	699.4	649.2	611.5	593.1	589.3	587.4
55°	9102.0	6921.7	1250.1	791.2	712.0	663.7	609.6	571.9	551.6	542.9	541.9
57.5°	10389.8	7986.3	1334.1	774.8	672.4	621.2	566.1	530.4	509.1	498.5	497.5
60°	11692.9	9148.4	1677.0	751.6	639.5	574.8	521.7	488.8	467.6	456.0	454.0
62.5°	12998.1	10373.3	2377.4	749.6	616.3	530.4	476.3	448.2	428.0	415.4	412.5
65°	14470.3	11714.2	3173.4	800.8	608.6	489.8	429.9	407.7	390.3	378.7	377.7
67.5°	16160.9	13228.0	3097.1	906.1	634.7	453.1	386.4	369.0	356.5	346.8	345.8
70°	16954.0	12991.3	1925.3	980.5	671.4	417.3	344.9	332.3	322.7	315.9	313.0
71°	16621.7	12335.4	1614.3	971.8	667.5	401.9	328.5	318.8	309.1	303.3	300.4
72.5°	15715.5	11249.5	1346.7	904.2	624.1	373.9	307.2	297.5	288.8	282.1	280.2
75°	14102.3	10046.8	1078.1	722.6	497.5	315.9	269.5	258.9	252.1	248.3	244.4
77.5°	10366.6	7169.9	833.7	570.9	366.1	257.9	229.9	222.2	215.4	209.6	206.7
80°	3971.4	2777.4	561.3	426.0	268.6	203.8	185.5	181.6	174.9	171.0	171.0
82.5°	1069.4	829.8	299.5	257.9	179.7	148.8	142.0	140.1	134.3	126.6	127.5
85°	432.8	366.1	168.1	142.0	110.1	87.9	95.6	96.6	89.8	80.2	81.1
87.5°	190.3	155.5	93.7	62.8	48.3	33.8	43.5	43.5	39.6	32.8	29.9
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)