

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: P319319

Luminaire Tested: **GAN-SA5B-730-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319319  
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-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 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: 25482 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

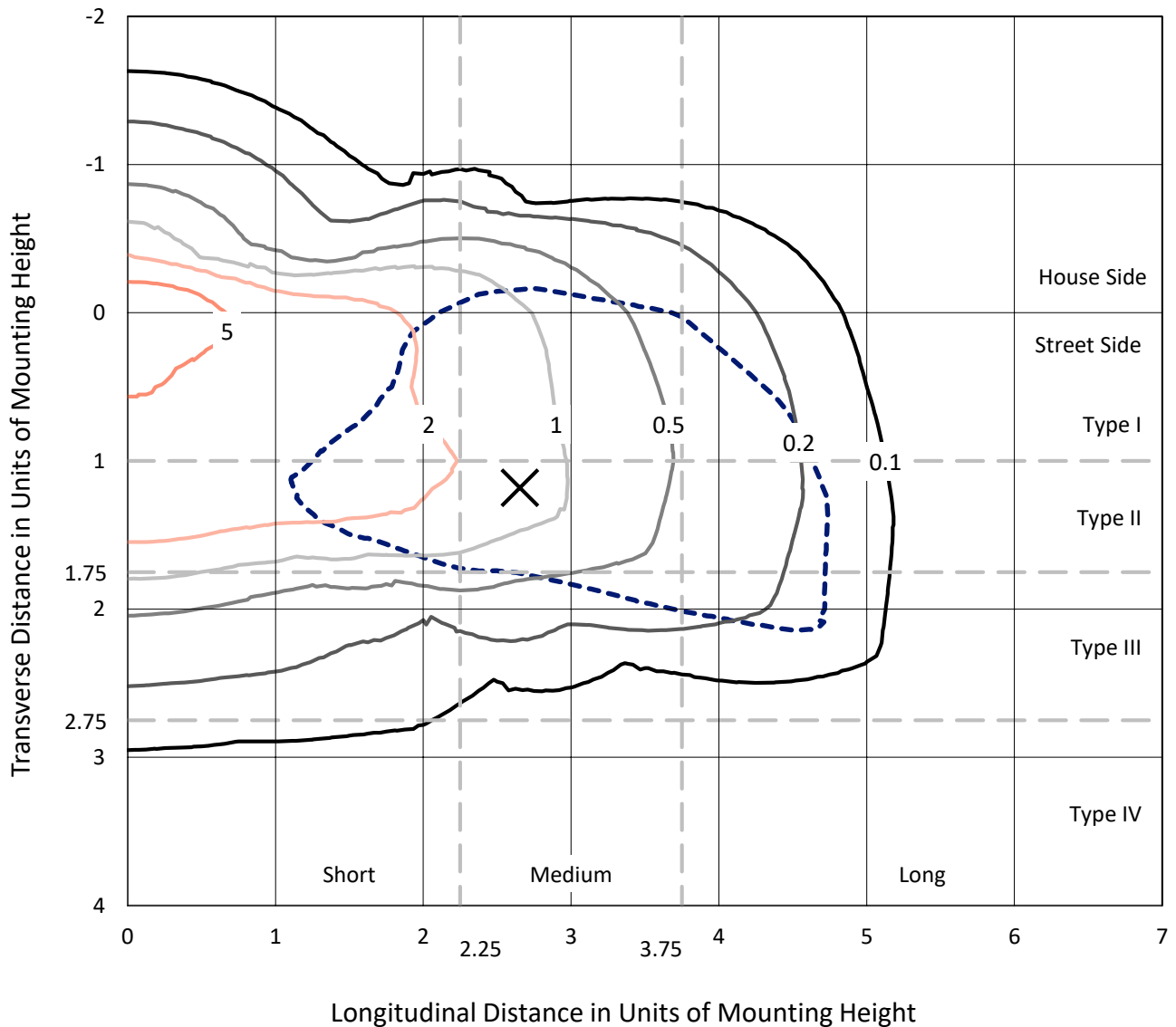
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

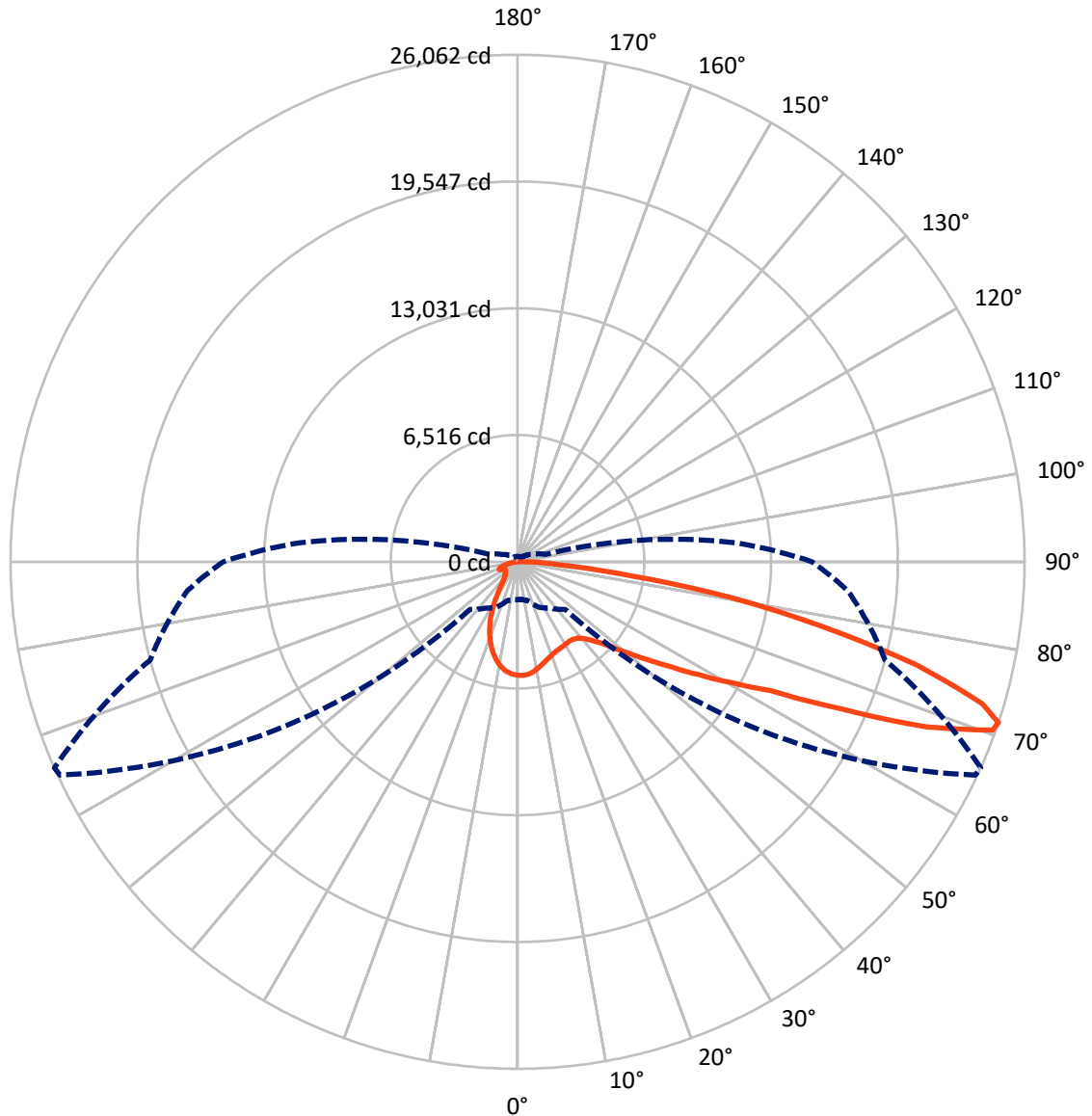
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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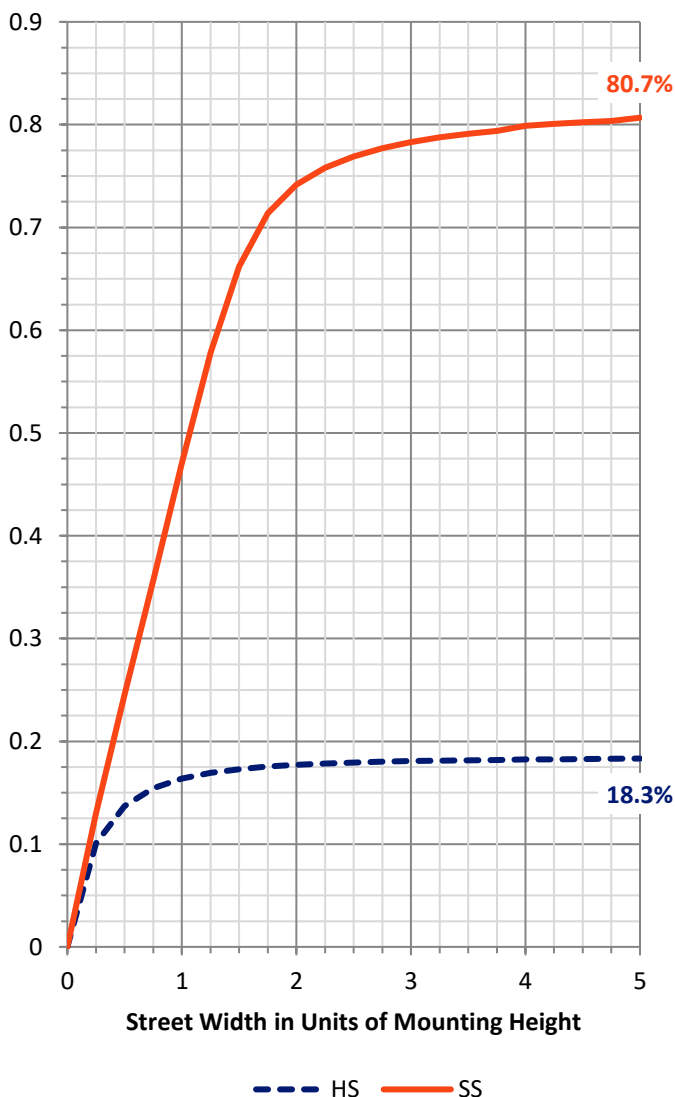
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4722.5	0.0	4722.5
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	20759.5	0.0	20759.5
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	25482.0	0.0	25482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.8	2.0
10°-20°	1232.4	4.8
20°-30°	1655.4	6.5
30°-40°	2177.7	8.5
40°-50°	3167.9	12.4
50°-60°	4948.7	19.4
60°-70°	6199.0	24.3
70°-80°	4728.5	18.6
80°-90°	858.6	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°	25482.0	100.0
0°-180°	25482.0	100.0

**Coefficient of Utilization**

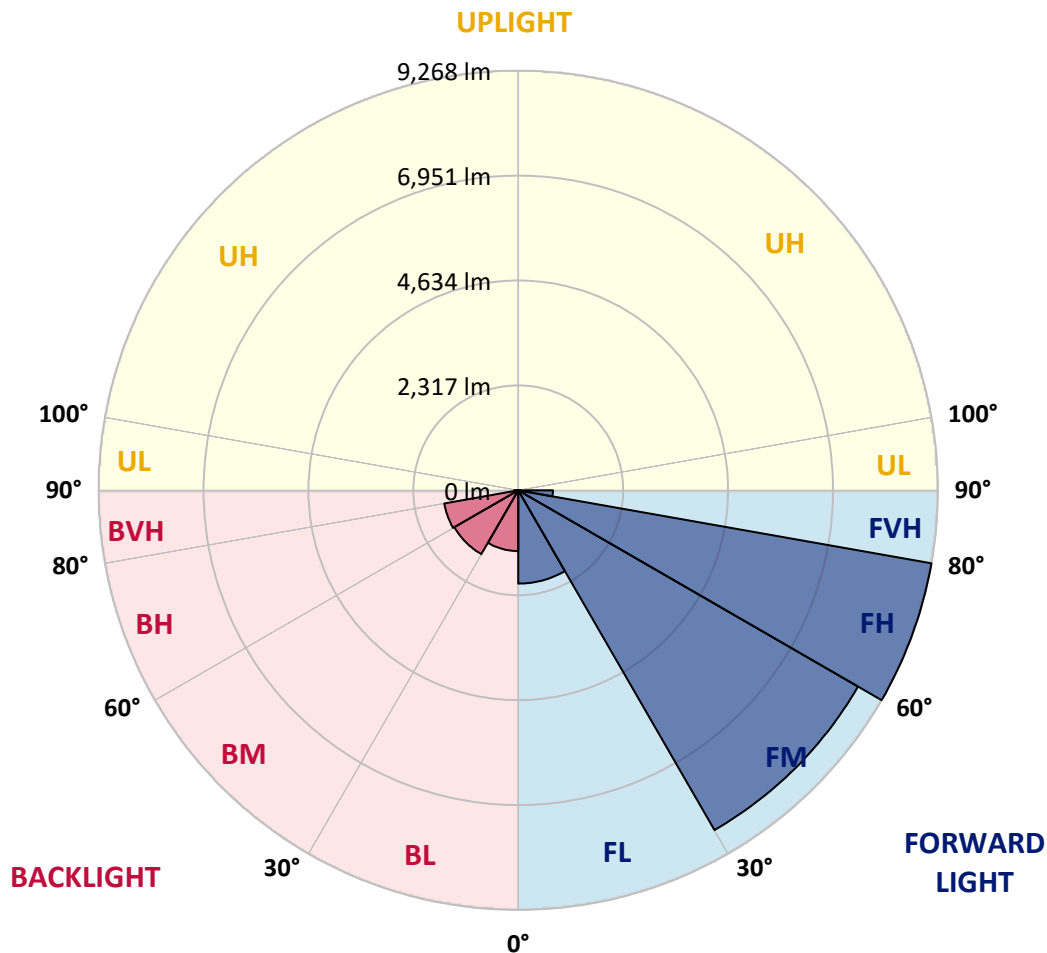


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.6	8.1			
FM (30°-60°)	8665.1	34.0			
FH (60°-80°)	9268.1	36.4			G4/12000
FVH (80°-90°)	765.7	3.0			G5
BL (0°-30°)	1341.1	5.3	B3/2500		
BM (30°-60°)	1629.1	6.4	B2/2500		
BH (60°-80°)	1659.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	92.9	0.4			G1/100
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°	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4
2.5°	5729.2	5720.4	5746.8	5774.1	5784.6	5802.2	5828.6	5843.6	5842.7	5845.4	5836.6
5°	5349.1	5337.7	5390.5	5433.6	5516.3	5609.6	5723.1	5804.0	5805.8	5851.5	5863.8
7.5°	4989.3	4981.4	5042.1	5111.6	5207.5	5350.0	5533.9	5708.1	5718.7	5842.7	5885.8
10°	4700.7	4699.0	4757.9	4833.6	4945.3	5104.6	5315.7	5570.9	5586.7	5800.5	5889.3
12.5°	4475.5	4479.0	4530.1	4616.3	4734.2	4900.5	5129.2	5416.9	5442.4	5733.6	5869.1
15°	4309.2	4323.3	4364.7	4451.8	4567.9	4736.8	4971.7	5274.4	5313.1	5658.8	5857.7
17.5°	4214.2	4230.0	4259.1	4331.2	4440.3	4603.1	4825.7	5157.4	5192.5	5601.6	5858.5
20°	4186.1	4199.3	4216.0	4260.0	4352.3	4500.1	4710.4	5051.8	5089.6	5555.9	5867.3
22.5°	4241.5	4251.2	4252.9	4249.4	4305.7	4426.2	4626.8	4974.4	5014.8	5526.0	5873.5
25°	4360.3	4373.5	4363.8	4331.2	4312.7	4386.7	4583.7	4923.3	4963.8	5504.0	5861.2
27.5°	4538.9	4540.6	4532.7	4490.5	4403.4	4391.1	4570.5	4893.4	4932.1	5478.5	5835.7
30°	4781.7	4793.1	4779.0	4721.9	4579.3	4461.4	4586.4	4864.4	4899.6	5445.9	5794.3
32.5°	5065.9	5094.0	5093.1	5033.3	4829.2	4618.9	4651.5	4846.8	4874.1	5411.6	5744.2
35°	5360.6	5399.3	5471.4	5445.9	5193.4	4867.9	4776.4	4874.9	4893.4	5407.2	5709.0
37.5°	5666.8	5705.5	5854.1	5922.8	5627.2	5224.2	4973.5	4974.4	4983.2	5460.9	5706.3
40°	5987.0	6028.3	6251.8	6430.4	6189.4	5675.6	5291.1	5182.0	5172.3	5592.9	5758.3
42.5°	6435.7	6472.6	6741.0	6968.8	6813.1	6253.6	5730.1	5502.2	5482.0	5851.5	5924.5
45°	7003.2	7034.8	7319.9	7563.6	7483.5	6913.4	6281.7	5943.0	5939.5	6282.6	6261.5
47.5°	7678.0	7702.6	7958.6	8194.4	8223.4	7672.7	6975.0	6623.1	6565.9	6873.8	6783.2
50°	8380.9	8408.2	8582.4	8835.8	9051.3	8688.8	7867.1	7456.3	7379.7	7654.2	7522.2
52.5°	8846.3	8882.4	9033.7	9354.8	9982.1	9802.7	8922.0	8466.3	8350.1	8600.0	8498.8
55°	8638.7	8719.6	8951.0	9465.7	10726.4	11504.2	10223.2	9644.3	9513.2	9720.8	9661.0
57.5°	7694.7	7805.5	8121.4	8915.8	10831.1	13003.4	12190.4	11031.7	10939.4	10879.5	10906.8
60°	5969.4	6075.9	6467.4	7502.9	10101.8	14097.8	15150.9	12742.1	12608.3	12042.6	12067.3
62.5°	4224.8	4171.1	4439.4	5196.9	8208.5	14226.3	18519.7	15029.5	14589.6	13270.8	13162.6
65°	3221.8	3209.5	3330.0	3571.1	4971.7	12689.3	20526.5	18874.2	18187.1	14715.4	14460.3
67.5°	2647.3	2625.3	2744.1	3095.1	3201.6	8186.5	20570.5	23334.8	22660.0	16513.7	15961.2
70°	2176.6	2152.0	2262.8	2715.9	2958.7	4151.7	17312.6	25946.9	25910.8	18790.6	17094.4
71°	1951.4	1933.8	2066.6	2569.9	2906.8	3460.2	14947.7	25953.9	26062.1	19561.3	17027.5
72.5°	1588.9	1595.1	1735.8	2287.5	2868.1	3055.5	10986.0	24744.2	24973.0	20296.0	16419.6
75°	1055.8	1061.0	1245.8	1759.6	2781.0	2989.5	6038.0	20763.1	21183.7	19856.1	14982.9
77.5°	709.1	707.4	833.2	1207.1	2423.0	2989.5	3540.3	15529.2	15991.1	15799.3	11550.8
80°	488.3	484.8	573.6	833.2	1834.4	3025.6	2737.0	10883.1	11022.9	8532.2	4694.6
82.5°	299.1	301.8	374.8	588.6	1248.4	2723.0	2584.0	5934.2	5782.0	2393.0	1172.8
85°	171.6	170.7	239.3	398.5	801.5	2298.0	2519.7	2554.0	2342.9	720.6	424.1
87.5°	61.6	66.0	128.4	220.8	459.3	1600.3	2137.9	1328.5	1197.4	325.5	191.8
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°	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4	5837.4
2.5°	5830.4	5835.7	5829.5	5794.3	5764.4	5716.0	5688.7	5650.9	5639.5	5634.2	5648.3
5°	5852.4	5854.1	5802.2	5709.9	5606.0	5483.8	5395.8	5287.6	5236.5	5214.5	5228.6
7.5°	5872.6	5864.7	5751.2	5574.4	5382.6	5169.7	4980.5	4807.2	4706.0	4664.7	4668.2
10°	5875.3	5841.8	5659.7	5386.1	5088.7	4776.4	4486.1	4218.6	4049.7	3939.7	3973.1
12.5°	5848.0	5791.7	5525.1	5142.4	4729.8	4304.0	3911.6	3510.4	3269.3	3157.6	3161.1
15°	5826.9	5724.8	5359.7	4855.6	4301.3	3737.4	3201.6	2730.0	2473.1	2358.7	2305.1
17.5°	5809.3	5652.7	5167.9	4532.7	3795.4	3080.2	2436.1	2015.6	1874.8	1841.4	1827.3
20°	5784.6	5576.1	4954.1	4158.8	3219.2	2344.7	1778.9	1571.3	1572.2	1610.9	1616.2
22.5°	5750.3	5489.0	4726.3	3739.1	2600.7	1707.7	1394.5	1334.6	1395.4	1469.3	1482.5
25°	5699.3	5386.1	4472.9	3275.5	1983.1	1312.7	1191.2	1188.6	1262.5	1339.9	1351.4
27.5°	5627.2	5251.5	4191.3	2777.5	1461.3	1115.6	1067.2	1085.7	1140.2	1196.5	1200.9
30°	5530.4	5094.9	3880.8	2252.3	1145.5	993.3	988.0	1004.7	1038.2	1077.7	1081.3
32.5°	5423.9	4935.6	3549.1	1743.8	981.0	927.3	932.6	940.5	956.3	972.2	975.7
35°	5327.2	4772.9	3209.5	1325.0	902.7	884.2	880.7	878.9	880.7	875.4	876.3
37.5°	5264.7	4638.3	2855.8	1054.9	857.8	846.4	835.8	822.6	807.7	798.9	800.6
40°	5241.8	4538.0	2497.7	911.5	820.8	812.9	792.7	764.5	746.9	741.7	741.7
42.5°	5303.4	4486.1	2152.0	839.3	790.1	776.9	743.4	710.9	697.7	696.8	695.9
45°	5491.7	4507.2	1822.9	799.7	761.9	736.4	692.4	665.1	656.3	658.1	657.2
47.5°	5829.5	4640.0	1541.4	773.3	733.7	700.3	651.0	629.1	618.5	618.5	619.4
50°	6404.0	4950.6	1317.1	751.3	710.0	666.9	621.1	593.9	579.8	578.9	578.9
52.5°	7240.7	5506.6	1177.2	732.9	683.6	637.0	591.2	556.9	540.2	536.7	534.9
55°	8289.4	6303.7	1138.5	720.6	648.4	604.4	555.1	520.8	502.4	494.4	493.6
57.5°	9462.2	7273.3	1215.0	705.6	612.3	565.7	515.6	483.0	463.7	454.0	453.1
60°	10649.0	8331.6	1527.3	684.5	582.4	523.5	475.1	445.2	425.8	415.3	413.5
62.5°	11837.6	9447.2	2165.2	682.7	561.3	483.0	433.7	408.2	389.7	378.3	375.7
65°	13178.4	10668.4	2890.1	729.3	554.3	446.1	391.5	371.3	355.4	344.9	344.0
67.5°	14718.1	12047.0	2820.6	825.2	578.0	412.6	351.9	336.1	324.6	315.8	315.0
70°	15440.4	11831.5	1753.4	893.0	611.5	380.1	314.1	302.6	293.9	287.7	285.1
71°	15137.7	11234.1	1470.1	885.1	607.9	366.0	299.1	290.3	281.5	276.3	273.6
72.5°	14312.5	10245.2	1226.4	823.5	568.3	340.5	279.8	271.0	263.1	256.9	255.1
75°	12843.2	9149.9	981.9	658.1	453.1	287.7	245.5	235.8	229.6	226.1	222.6
77.5°	9441.1	6529.8	759.3	520.0	333.4	234.9	209.4	202.4	196.2	190.9	188.3
80°	3616.8	2529.4	511.2	388.0	244.6	185.6	168.9	165.4	159.2	155.7	155.7
82.5°	973.9	755.7	272.7	234.9	163.6	135.5	129.3	127.6	122.3	115.3	116.1
85°	394.1	333.4	153.1	129.3	100.3	80.1	87.1	88.0	81.8	73.0	73.9
87.5°	173.3	141.6	85.3	57.2	44.0	30.8	39.6	39.6	36.1	29.9	27.3
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)