

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: P323208

Luminaire Tested: **GAN-SA4C-740-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4C-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23632 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

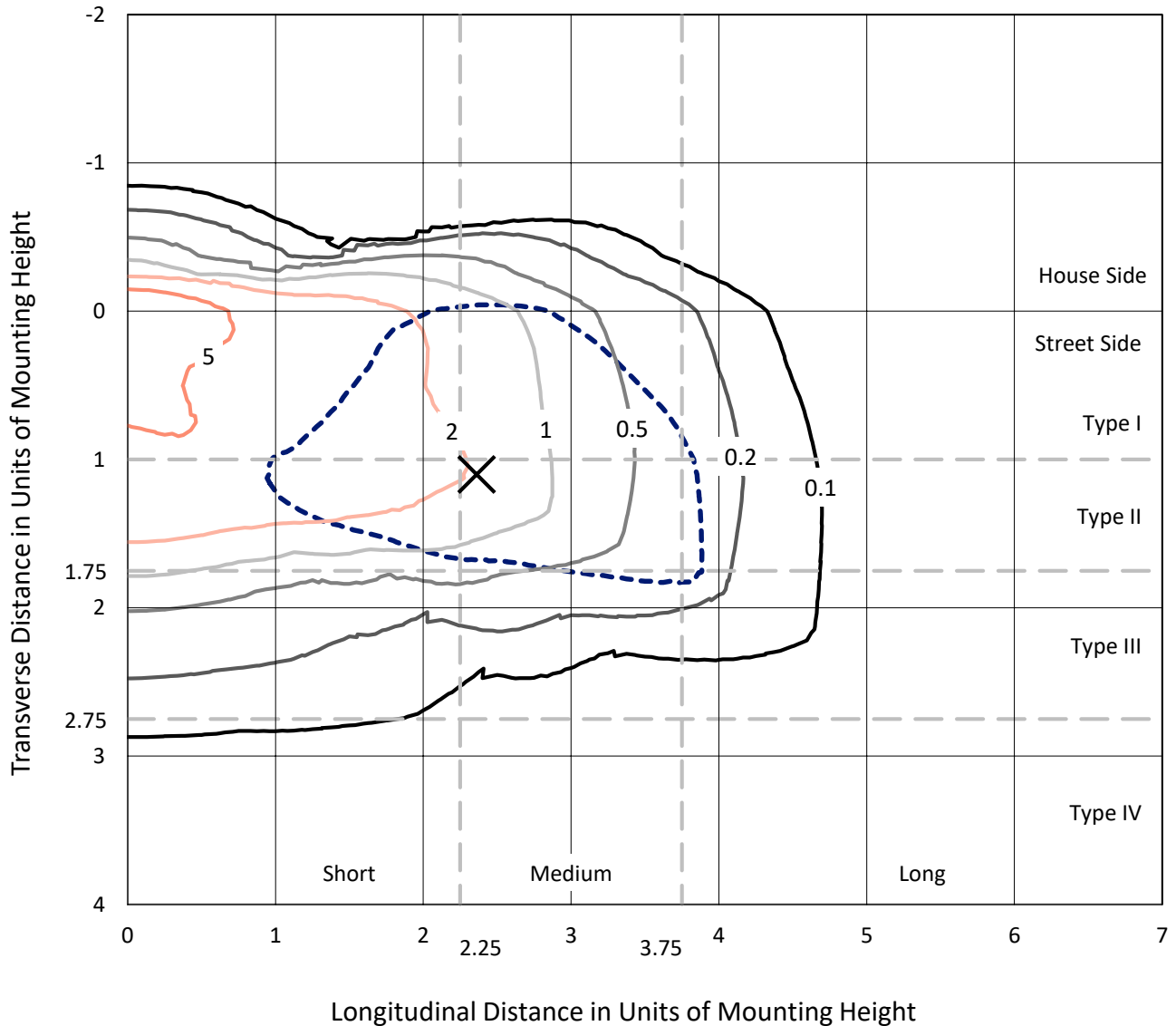
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

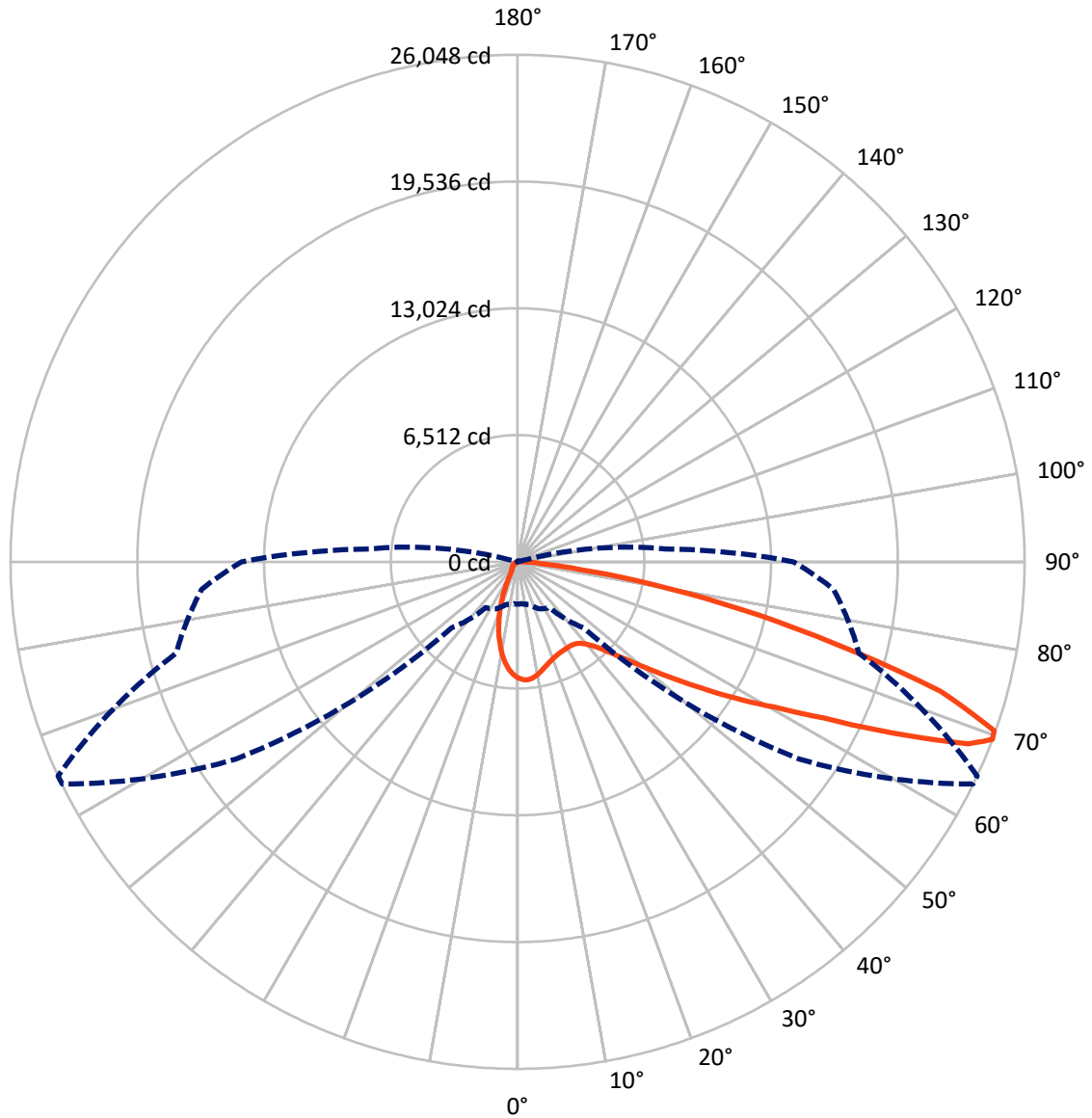
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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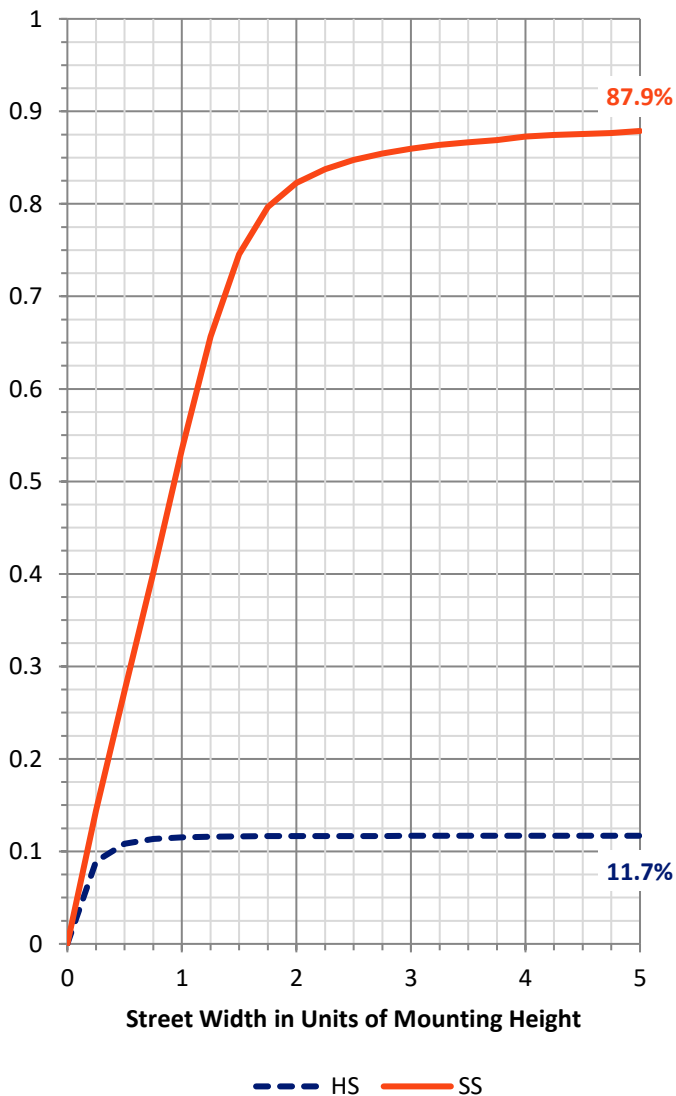
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2785.7	0.0	2785.7
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	20846.4	0.0	20846.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	23632.0	0.0	23632.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.4	2.1
10°-20°	1093.1	4.6
20°-30°	1514.1	6.4
30°-40°	2111.1	8.9
40°-50°	3281.3	13.9
50°-60°	5267.7	22.3
60°-70°	5958.7	25.2
70°-80°	3499.6	14.8
80°-90°	407.1	1.7
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°	23632.0	100.0
0°-180°	23632.0	100.0

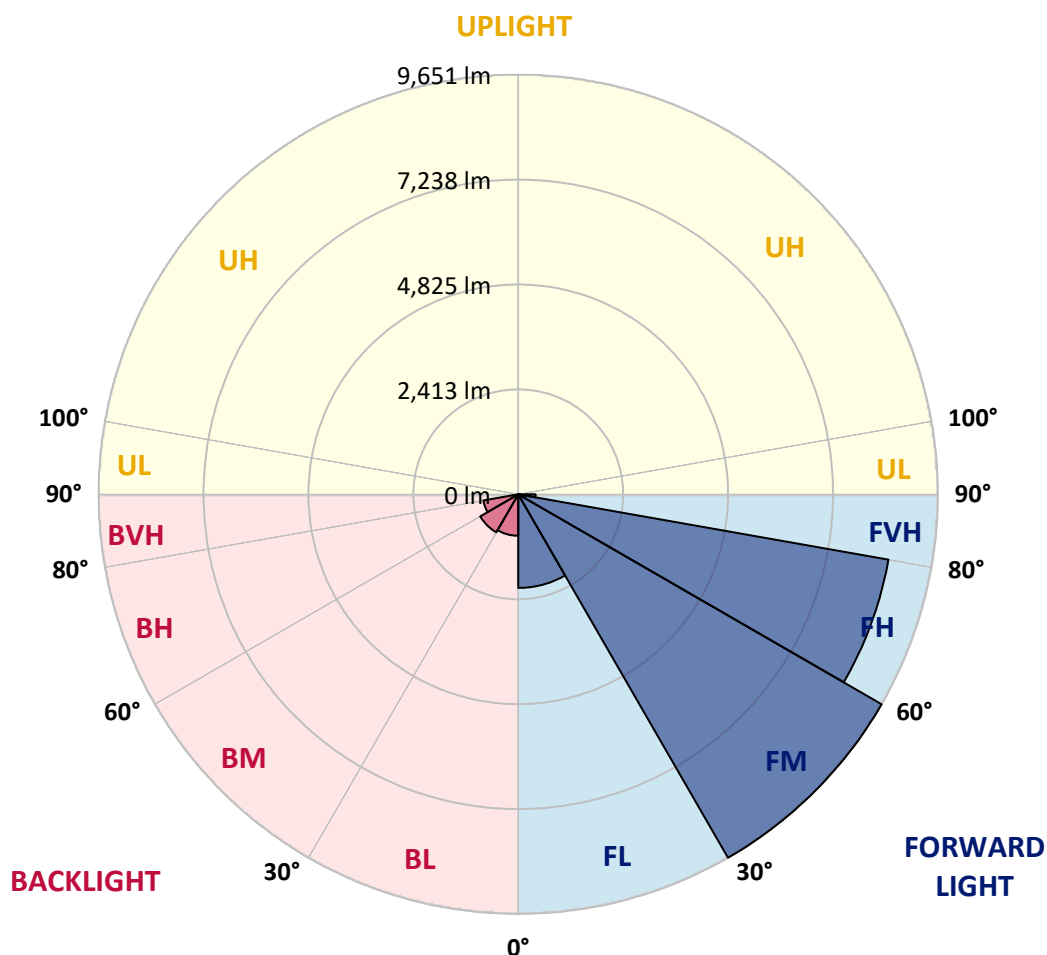


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2153.4	9.1			
FM (30°-60°)	9650.6	40.8			
FH (60°-80°)	8644.3	36.6			G4/12000
FVH (80°-90°)	397.9	1.7			G3/500
BL (0°-30°)	953.1	4.0	B2/1000		
BM (30°-60°)	1009.5	4.3	B2/2500		
BH (60°-80°)	813.9	3.4	B2/1000		G2/1000
BVH (80°-90°)	9.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8
2.5°	6024.8	6009.8	6021.8	6047.8	6060.8	6060.8	6070.8	6058.8	6062.8	6033.8	5991.8
5°	5647.9	5624.9	5657.9	5730.9	5820.9	5897.8	6011.8	6071.8	6077.8	6078.8	6029.8
7.5°	5241.9	5220.9	5269.9	5355.9	5471.9	5614.9	5813.9	5987.8	5997.8	6091.8	6055.8
10°	4911.9	4896.9	4953.9	5045.9	5181.9	5341.9	5585.9	5827.9	5856.9	6064.8	6051.8
12.5°	4649.9	4637.9	4691.9	4797.9	4936.9	5113.9	5368.9	5649.9	5688.9	6003.8	6031.8
15°	4458.9	4456.9	4501.9	4603.9	4757.9	4922.9	5183.9	5484.9	5529.9	5937.8	6028.8
17.5°	4358.9	4361.9	4394.9	4481.9	4613.9	4777.9	5027.9	5345.9	5394.9	5878.9	6043.8
20°	4348.9	4351.9	4369.9	4418.9	4525.9	4670.9	4900.9	5228.9	5279.9	5834.9	6067.8
22.5°	4436.9	4434.9	4439.9	4434.9	4494.9	4604.9	4816.9	5138.9	5197.9	5805.9	6086.8
25°	4605.9	4602.9	4600.9	4563.9	4523.9	4582.9	4781.9	5087.9	5143.9	5784.9	6097.8
27.5°	4840.9	4838.9	4835.9	4774.9	4654.9	4617.9	4785.9	5068.9	5115.9	5767.9	6095.8
30°	5149.9	5163.9	5159.9	5074.9	4887.9	4724.9	4827.9	5058.9	5099.9	5734.9	6074.8
32.5°	5512.9	5540.9	5562.9	5471.9	5237.9	4936.9	4924.9	5069.9	5099.9	5709.9	6036.8
35°	5889.8	5925.8	6006.8	5974.8	5666.9	5255.9	5091.9	5135.9	5160.9	5723.9	6018.8
37.5°	6260.8	6303.8	6479.8	6572.8	6228.8	5677.9	5351.9	5298.9	5311.9	5808.9	6038.8
40°	6691.8	6756.8	7023.8	7173.8	6899.8	6242.8	5740.9	5578.9	5583.9	5995.8	6131.8
42.5°	7257.8	7324.8	7613.8	7848.8	7655.8	6956.8	6268.8	6006.8	6001.8	6345.8	6350.8
45°	7947.8	8017.8	8316.8	8577.8	8490.8	7802.8	6944.8	6631.8	6625.8	6897.8	6765.8
47.5°	8729.8	8798.8	9065.8	9334.8	9428.8	8790.8	7805.8	7484.8	7470.8	7664.8	7406.8
50°	9400.8	9445.8	9691.8	10053.7	10477.7	10004.7	8876.8	8567.8	8552.8	8683.8	8347.8
52.5°	9644.8	9670.8	9920.7	10427.7	11485.7	11648.7	10283.7	9885.7	9874.7	9931.7	9600.8
55°	9150.8	9197.8	9504.8	10256.7	12031.7	13506.7	12059.7	11517.7	11434.7	11311.7	10910.7
57.5°	7804.8	7879.8	8209.8	9209.8	11776.7	14980.6	14669.6	13363.7	13241.7	12489.7	11975.7
60°	5847.9	5939.8	6213.8	7292.8	10415.7	15505.6	17521.6	15420.6	15145.6	13427.7	12954.7
62.5°	4012.9	4058.9	4244.9	4947.9	7670.8	14645.6	19907.5	18175.5	17673.5	14447.6	14013.6
65°	3064.9	3080.9	3156.9	3398.9	4567.9	11896.7	20856.5	21810.4	21203.5	15667.6	15112.6
67.5°	2469.9	2456.9	2561.9	2907.9	3058.9	7257.8	19749.5	25249.4	24965.4	17298.6	16218.6
69°	2177.9	2159.9	2266.9	2668.9	2872.9	4797.9	17655.6	26030.3	26048.3	18159.5	16294.6
70°	1960.0	1971.9	2077.9	2526.9	2809.9	3765.9	15655.6	25831.3	25973.3	18481.5	15838.6
72.5°	1309.0	1341.0	1554.0	2097.9	2701.9	2849.9	9452.8	22166.4	22712.4	17756.5	13588.7
75°	738.0	762.0	1015.0	1582.0	2545.9	2713.9	4992.9	16330.6	16858.6	14848.6	10478.7
77.5°	362.0	375.0	574.0	1021.0	2128.9	2585.9	2831.9	11092.7	11695.7	9691.8	5926.8
80°	153.0	160.0	287.0	630.0	1522.0	2467.9	2102.9	6826.8	6901.8	3796.9	1579.0
82.5°	59.0	61.0	121.0	393.0	967.0	1924.0	1759.0	3236.9	3158.9	715.0	360.0
85°	7.0	8.0	44.0	236.0	538.0	990.0	1429.0	1395.0	1291.0	142.0	185.0
87.5°	0.0	0.0	3.0	72.0	160.0	464.0	743.0	579.0	522.0	46.0	96.0
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°	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8	5971.8
2.5°	5956.8	5946.8	5892.8	5814.9	5740.9	5648.9	5560.9	5507.9	5465.9	5437.9	5470.9
5°	5972.8	5928.8	5764.9	5554.9	5348.9	5116.9	4900.9	4717.9	4645.9	4565.9	4601.9
7.5°	5967.8	5884.9	5589.9	5215.9	4837.9	4446.9	4076.9	3791.9	3643.9	3498.9	3535.9
10°	5942.8	5802.9	5355.9	4801.9	4235.9	3673.9	3148.9	2749.9	2526.9	2324.9	2353.9
12.5°	5887.8	5692.9	5079.9	4327.9	3570.9	2829.9	2214.9	1704.0	1430.0	1309.0	1324.0
15°	5854.9	5585.9	4787.9	3847.9	2860.9	1970.9	1354.0	1007.0	882.0	842.0	847.0
17.5°	5838.9	5482.9	4485.9	3298.9	2134.9	1255.0	875.0	772.0	745.0	738.0	740.0
20°	5822.9	5378.9	4174.9	2755.9	1471.0	844.0	719.0	689.0	679.0	670.0	672.0
22.5°	5795.9	5278.9	3840.9	2205.9	992.0	685.0	648.0	619.0	598.0	587.0	589.0
25°	5762.9	5173.9	3499.9	1643.0	724.0	611.0	576.0	535.0	510.0	490.0	491.0
27.5°	5709.9	5044.9	3147.9	1196.0	608.0	547.0	500.0	455.0	413.0	390.0	390.0
30°	5635.9	4898.9	2756.9	856.0	545.0	484.0	427.0	371.0	326.0	305.0	303.0
32.5°	5553.9	4746.9	2361.9	649.0	495.0	425.0	360.0	301.0	261.0	244.0	243.0
35°	5483.9	4582.9	1967.9	544.0	445.0	368.0	297.0	247.0	215.0	201.0	200.0
37.5°	5438.9	4418.9	1584.0	486.0	400.0	315.0	249.0	204.0	181.0	170.0	169.0
40°	5431.9	4296.9	1233.0	442.0	358.0	268.0	208.0	173.0	152.0	140.0	139.0
42.5°	5522.9	4226.9	946.0	405.0	315.0	227.0	177.0	148.0	126.0	114.0	113.0
45°	5761.9	4248.9	728.0	372.0	272.0	192.0	150.0	123.0	103.0	94.0	92.0
47.5°	6197.8	4400.9	579.0	339.0	231.0	163.0	128.0	102.0	85.0	76.0	75.0
50°	6973.8	4757.9	484.0	303.0	193.0	139.0	106.0	83.0	69.0	61.0	60.0
52.5°	8003.8	5393.9	432.0	268.0	160.0	118.0	87.0	66.0	54.0	48.0	47.0
55°	9139.8	6163.8	398.0	230.0	131.0	98.0	69.0	52.0	42.0	37.0	35.0
57.5°	10248.7	6830.8	366.0	193.0	109.0	80.0	55.0	41.0	33.0	28.0	27.0
60°	11267.7	7443.8	329.0	155.0	89.0	63.0	43.0	32.0	26.0	21.0	21.0
62.5°	12358.7	7917.8	278.0	121.0	73.0	48.0	35.0	29.0	21.0	18.0	17.0
65°	13514.7	8269.8	218.0	94.0	57.0	36.0	29.0	30.0	17.0	13.0	12.0
67.5°	14368.6	8199.8	161.0	74.0	44.0	28.0	28.0	32.0	15.0	10.0	9.0
69°	14180.6	7630.8	135.0	64.0	38.0	24.0	26.0	32.0	14.0	9.0	8.0
70°	13635.7	7000.8	119.0	57.0	34.0	22.0	25.0	31.0	13.0	9.0	8.0
72.5°	11355.7	5272.9	93.0	43.0	27.0	18.0	21.0	27.0	13.0	9.0	7.0
75°	8541.8	3374.9	71.0	31.0	20.0	14.0	16.0	20.0	13.0	8.0	7.0
77.5°	4647.9	1217.0	51.0	21.0	14.0	11.0	11.0	15.0	12.0	6.0	4.0
80°	1195.0	306.0	32.0	14.0	11.0	8.0	7.0	10.0	7.0	1.0	0.0
82.5°	295.0	69.0	17.0	10.0	8.0	3.0	3.0	5.0	3.0	0.0	0.0
85°	162.0	34.0	11.0	7.0	4.0	0.0	0.0	1.0	0.0	0.0	0.0
87.5°	83.0	10.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
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)