

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: P323879

Luminaire Tested: **GAN-SA5B-750-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5B-750-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23180 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

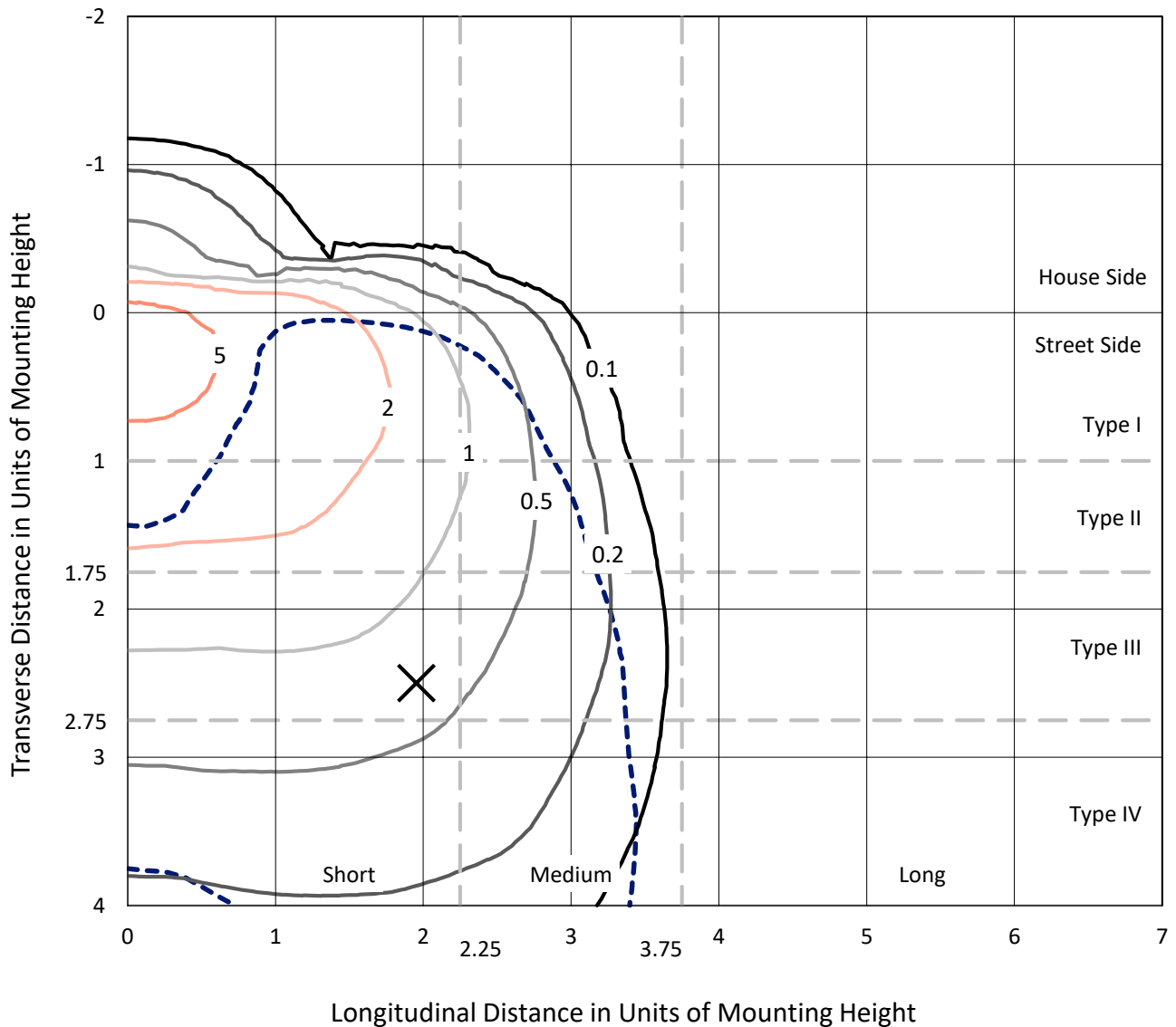
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

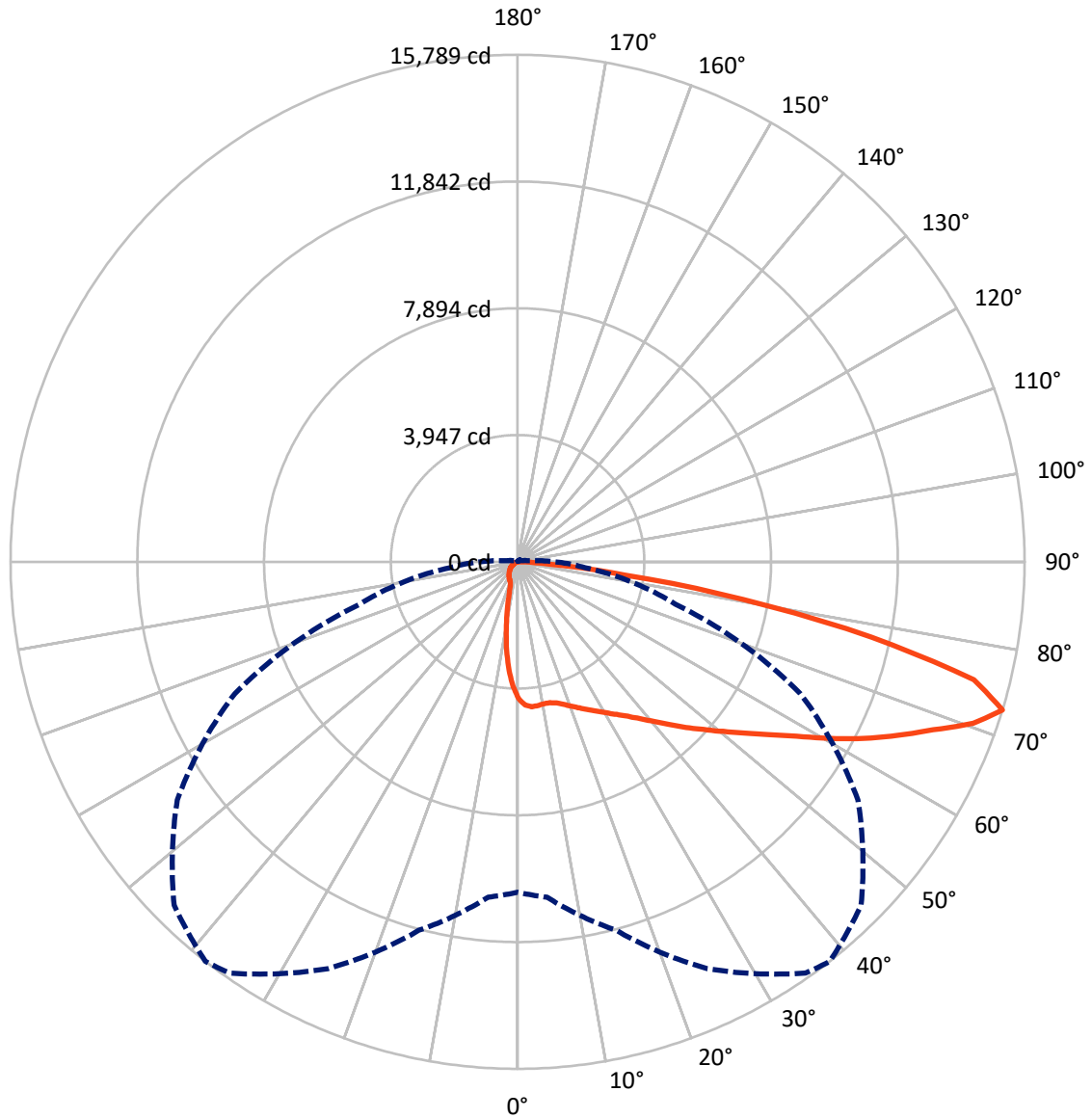
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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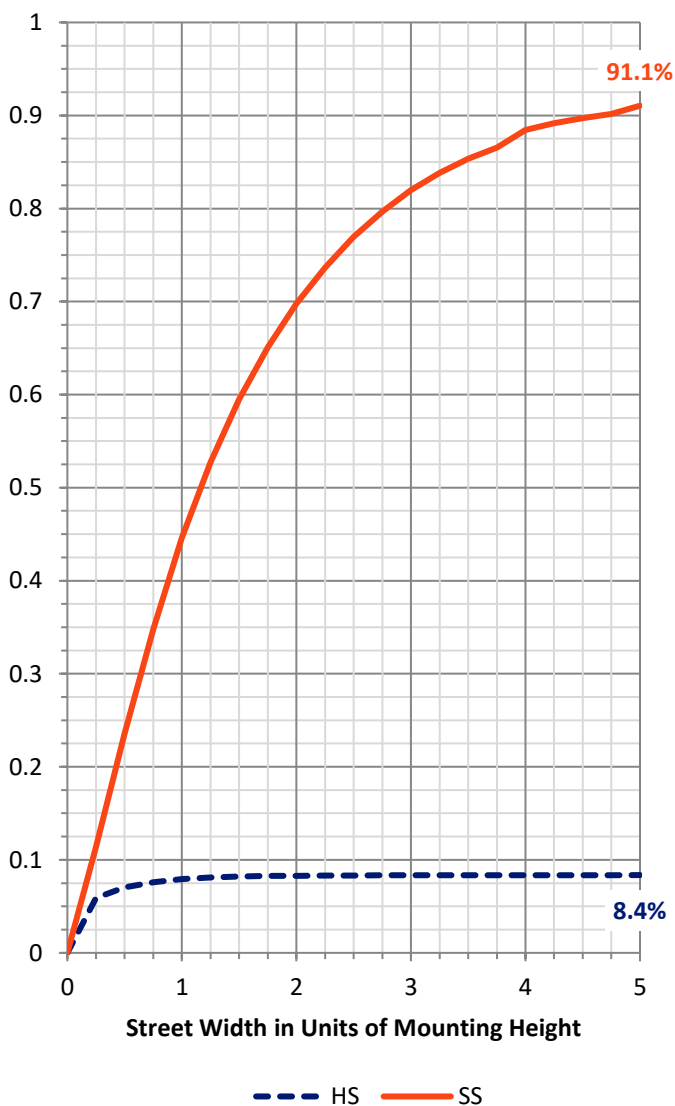
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1950.7	0.0	1950.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	21229.3	0.0	21229.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	23180.0	0.0	23180.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.3	1.6
10°-20°	888.3	3.8
20°-30°	1412.8	6.1
30°-40°	2123.9	9.2
40°-50°	3240.2	14.0
50°-60°	4579.5	19.8
60°-70°	5744.3	24.8
70°-80°	4295.1	18.5
80°-90°	532.6	2.3
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°	23180.0	100.0
0°-180°	23180.0	100.0

**Coefficient of Utilization**



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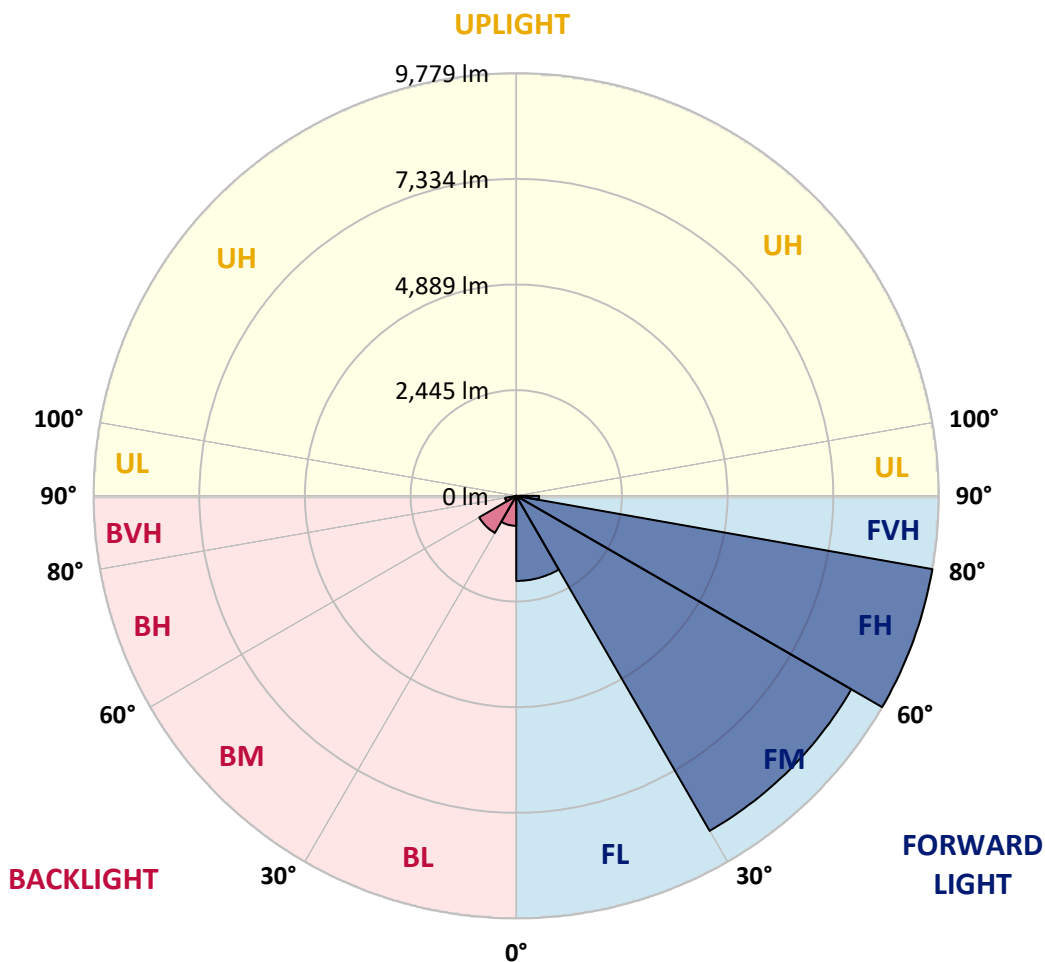
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1969.7	8.5			
FM (30°-60°)	8953.1	38.6			
FH (60°-80°)	9778.8	42.2			G4/12000
FVH (80°-90°)	527.6	2.3			G4/750
BL (0°-30°)	694.6	3.0	B2/1000		
BM (30°-60°)	990.6	4.3	B1/1000		
BH (60°-80°)	260.6	1.1	B1/500		G1/500
BVH (80°-90°)	5.0	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7
2.5°	4524.6	4525.5	4514.9	4497.6	4475.5	4463.9	4444.7	4413.9	4381.1	4322.4	4258.9
5°	4617.0	4617.0	4603.5	4580.4	4544.8	4534.2	4497.6	4448.5	4381.1	4285.8	4179.0
7.5°	4607.4	4609.3	4591.0	4566.9	4531.3	4521.7	4477.4	4422.5	4338.8	4223.3	4086.6
10°	4557.3	4562.1	4547.7	4536.1	4503.4	4492.8	4451.4	4396.5	4312.8	4189.6	4032.6
12.5°	4506.3	4511.1	4515.9	4526.5	4506.3	4502.4	4469.7	4423.5	4343.6	4215.6	4038.4
15°	4473.6	4483.2	4517.8	4559.2	4564.0	4560.2	4539.0	4495.7	4414.8	4282.0	4079.8
17.5°	4473.6	4489.0	4561.2	4640.1	4668.0	4670.9	4652.6	4592.0	4495.7	4353.2	4118.3
20°	4511.1	4532.3	4644.9	4756.6	4802.8	4802.8	4767.2	4682.5	4569.8	4417.7	4144.3
22.5°	4607.4	4635.3	4776.8	4905.8	4954.9	4944.3	4896.2	4772.9	4646.8	4490.9	4177.0
25°	4797.0	4818.2	4965.5	5095.4	5125.3	5101.2	5040.6	4882.7	4745.0	4590.0	4236.7
27.5°	5041.5	5044.4	5196.5	5306.3	5288.0	5271.6	5195.6	5020.4	4886.5	4731.5	4339.7
30°	5310.1	5310.1	5443.9	5527.7	5471.8	5458.4	5382.3	5186.9	5067.5	4924.1	4486.1
32.5°	5570.0	5581.6	5690.4	5743.3	5680.7	5667.3	5593.1	5397.7	5308.2	5217.7	4714.2
35°	5821.3	5830.0	5933.0	5961.8	5902.2	5906.0	5853.1	5687.5	5653.8	5642.2	5057.9
37.5°	6064.9	6066.8	6171.7	6190.0	6160.2	6192.9	6197.7	6051.4	6113.9	6207.3	5542.1
40°	6287.2	6289.2	6393.1	6440.3	6491.3	6533.7	6571.2	6493.2	6700.2	6916.8	6118.8
42.5°	6465.3	6485.5	6617.4	6707.0	6841.7	6922.6	7024.6	7020.8	7398.2	7723.5	6815.7
45°	6622.2	6656.9	6840.8	6997.7	7228.7	7357.7	7517.5	7642.7	8183.7	8621.7	7521.4
47.5°	6829.2	6861.9	7071.8	7328.8	7636.9	7806.3	8071.1	8341.6	9047.2	9503.5	8210.7
50°	7120.9	7106.5	7313.4	7682.1	8077.8	8300.2	8677.6	9082.8	9904.0	10271.7	8615.9
52.5°	7431.9	7426.1	7579.1	8066.3	8597.7	8857.6	9356.2	9849.1	10723.2	10801.2	8801.7
55°	7816.9	7775.5	7904.5	8504.3	9214.7	9493.9	10081.1	10607.7	11375.9	11099.6	8895.1
57.5°	8220.3	8151.9	8275.2	8992.3	9910.7	10240.9	10884.0	11347.1	11810.1	11303.7	8894.2
60°	8637.1	8556.3	8702.6	9602.7	10775.2	11157.4	11754.3	11846.7	12215.4	11406.7	8828.7
62.5°	8985.6	8937.5	9155.0	10255.4	11740.8	12116.2	12411.8	12301.1	12557.1	11486.6	8675.6
65°	9354.3	9357.2	9708.6	11016.9	12767.0	13020.2	13045.2	12890.2	12843.0	11470.3	8157.7
67.5°	9853.0	9899.2	10485.5	12050.8	13765.3	13960.7	13958.8	13528.5	13051.9	10819.5	7009.2
70°	10380.5	10489.3	11380.7	13233.9	14855.0	15053.4	14951.3	13934.7	12289.5	8748.8	4960.7
72.5°	10292.0	10480.6	11878.4	13980.0	15637.7	15788.8	15125.6	12936.4	9713.4	5084.9	2112.1
75°	7940.1	8158.7	10891.7	13240.6	14816.5	14680.8	12996.1	10066.7	5308.2	1419.0	475.6
77.5°	4194.4	4310.9	7195.0	10086.9	11553.1	11269.1	9155.0	5584.5	1618.3	351.4	213.7
80°	2196.8	2223.8	3135.4	5723.1	7130.5	7132.5	5425.6	2452.9	667.1	180.0	143.4
82.5°	1176.4	1199.5	1656.8	2644.5	3736.1	3386.7	2077.5	1349.7	388.0	102.0	137.7
85°	283.0	287.8	939.6	1208.2	1469.0	1049.3	617.1	1133.1	104.9	59.7	111.7
87.5°	108.8	110.7	348.5	522.7	374.5	242.6	288.8	422.6	13.5	23.1	17.3
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°	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7	4262.7
2.5°	4220.4	4195.3	4133.7	4055.8	3986.4	3936.4	3861.3	3812.2	3779.5	3778.5	3766.0
5°	4113.5	4062.5	3929.6	3771.8	3628.3	3499.3	3347.2	3226.9	3137.4	3122.9	3092.1
7.5°	3999.0	3915.2	3711.1	3464.7	3224.0	2979.5	2695.5	2519.3	2368.2	2296.0	2288.3
10°	3928.7	3811.2	3521.5	3165.3	2787.9	2390.3	2018.7	1761.7	1575.9	1523.0	1483.5
12.5°	3914.2	3759.2	3375.1	2884.2	2345.1	1819.5	1408.4	1135.0	986.7	939.6	927.1
15°	3928.7	3735.2	3251.9	2606.0	1896.5	1290.9	945.3	786.5	730.7	717.2	716.2
17.5°	3937.3	3706.3	3112.3	2296.9	1461.3	922.2	723.9	677.7	669.1	668.1	670.0
20°	3936.4	3662.0	2945.8	1952.3	1086.9	724.9	654.6	645.0	643.1	644.0	643.1
22.5°	3929.6	3610.0	2762.9	1597.1	821.2	647.9	624.8	619.0	618.0	618.0	618.0
25°	3942.2	3568.6	2561.7	1257.3	676.8	612.3	597.8	593.0	592.0	592.0	590.1
27.5°	3987.4	3545.5	2341.2	967.5	611.3	580.5	568.9	568.0	565.1	564.1	566.1
30°	4060.6	3545.5	2099.6	752.8	571.8	547.8	539.1	537.2	536.2	535.2	536.2
32.5°	4189.6	3572.5	1835.8	625.7	534.3	511.2	505.4	508.3	505.4	505.4	505.4
35°	4422.5	3653.4	1559.5	545.8	494.8	475.6	469.8	473.6	471.7	471.7	470.7
37.5°	4762.4	3803.5	1281.3	497.7	460.2	439.9	432.2	438.0	436.1	436.1	435.1
40°	5176.3	4022.1	1016.6	461.1	426.5	405.3	398.5	401.4	396.6	396.6	398.5
42.5°	5687.5	4299.3	785.5	425.5	392.8	372.6	368.7	365.8	357.2	352.3	353.3
45°	6255.5	4588.1	612.3	390.8	361.0	344.6	338.9	331.2	316.7	307.1	308.1
47.5°	6762.8	4810.5	497.7	357.2	332.1	319.6	310.9	296.5	275.3	263.8	264.7
50°	7029.5	4844.2	423.6	323.5	305.2	292.7	280.1	258.0	233.0	220.5	219.5
52.5°	7097.8	4686.3	368.7	292.7	278.2	263.8	247.4	217.6	189.6	176.2	174.2
55°	7122.8	4445.6	319.6	263.8	249.3	233.0	211.8	178.1	152.1	138.6	137.7
57.5°	7040.0	4086.6	281.1	237.8	220.5	200.2	174.2	142.5	117.4	106.9	106.9
60°	6856.2	3600.4	251.3	209.9	190.6	167.5	140.6	110.7	87.6	78.9	78.9
62.5°	6489.4	2970.8	223.3	181.0	162.7	138.6	113.6	83.8	61.6	56.8	57.8
65°	5797.2	2253.6	195.4	155.0	138.6	114.6	88.6	59.7	41.4	41.4	43.3
67.5°	4727.7	1565.3	166.5	131.9	119.4	93.4	67.4	41.4	28.9	32.7	36.6
70°	3129.7	878.0	142.5	108.8	102.0	74.1	50.1	27.9	23.1	30.8	37.5
72.5°	1181.2	341.7	119.4	87.6	88.6	56.8	35.6	21.2	21.2	33.7	44.3
75°	329.2	167.5	85.7	64.5	69.3	41.4	26.0	18.3	20.2	38.5	52.0
77.5°	193.5	123.2	55.8	37.5	47.2	28.9	17.3	14.4	17.3	32.7	50.1
80°	156.0	65.5	32.7	19.3	26.0	16.4	11.6	8.7	4.8	12.5	26.0
82.5°	156.0	39.5	15.4	13.5	13.5	8.7	5.8	3.9	1.0	0.0	6.7
85°	104.9	16.4	9.6	8.7	6.7	2.9	1.9	1.0	0.0	0.0	0.0
87.5°	17.3	6.7	3.9	1.9	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)