

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: P323158

Luminaire Tested: **GAN-SA4B-730-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323158  
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-SA4B-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA 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: 17388 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

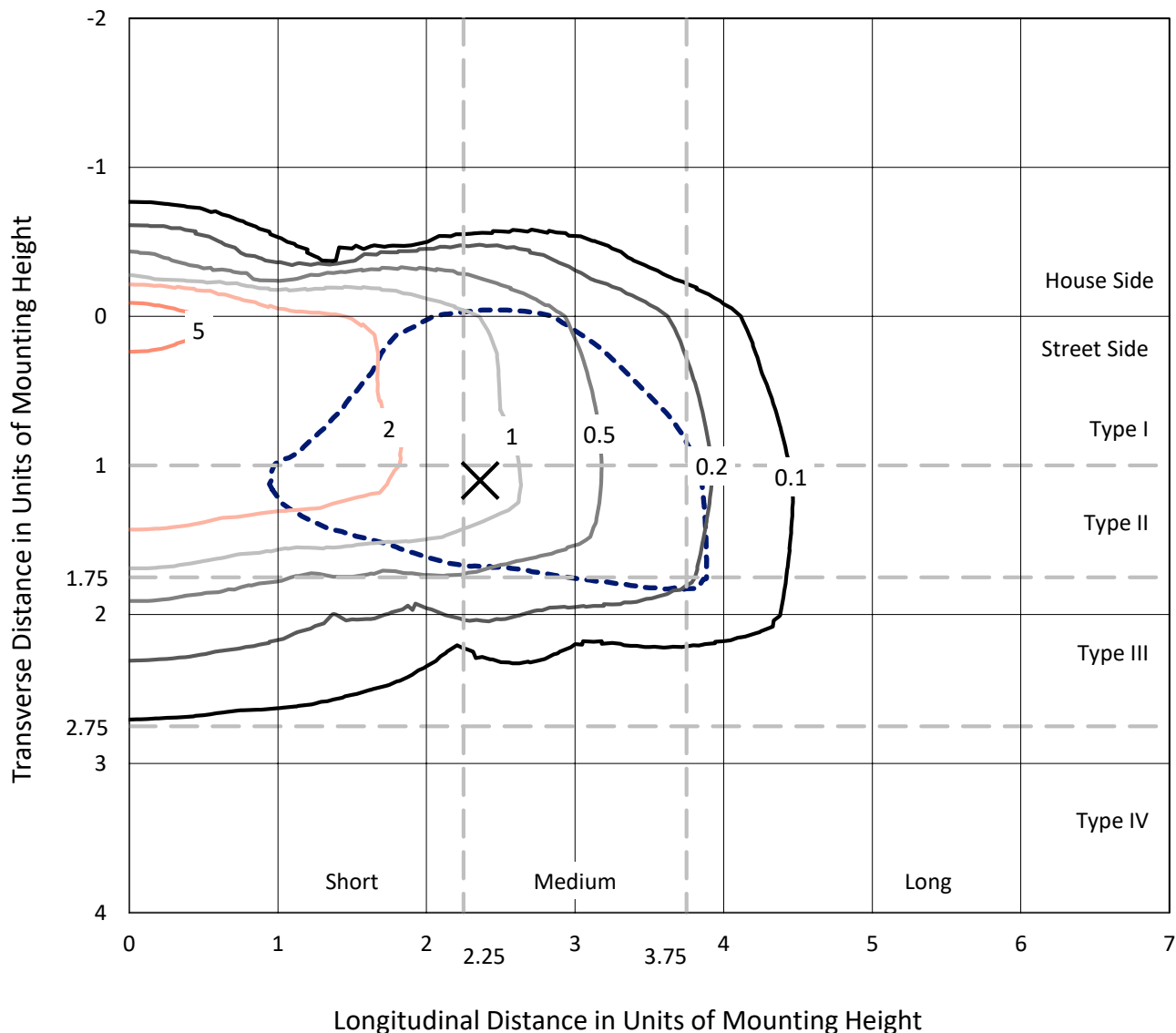
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

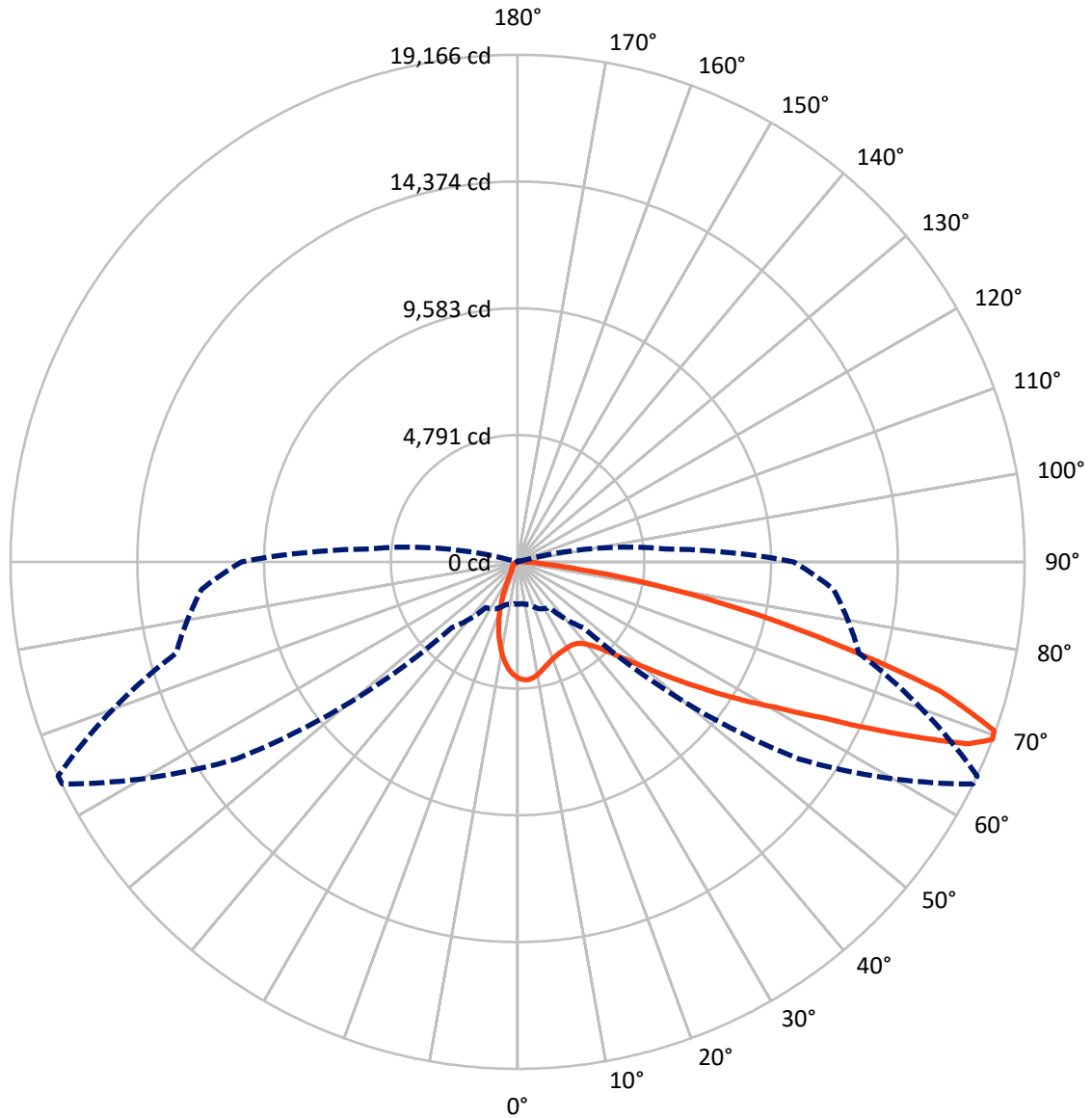
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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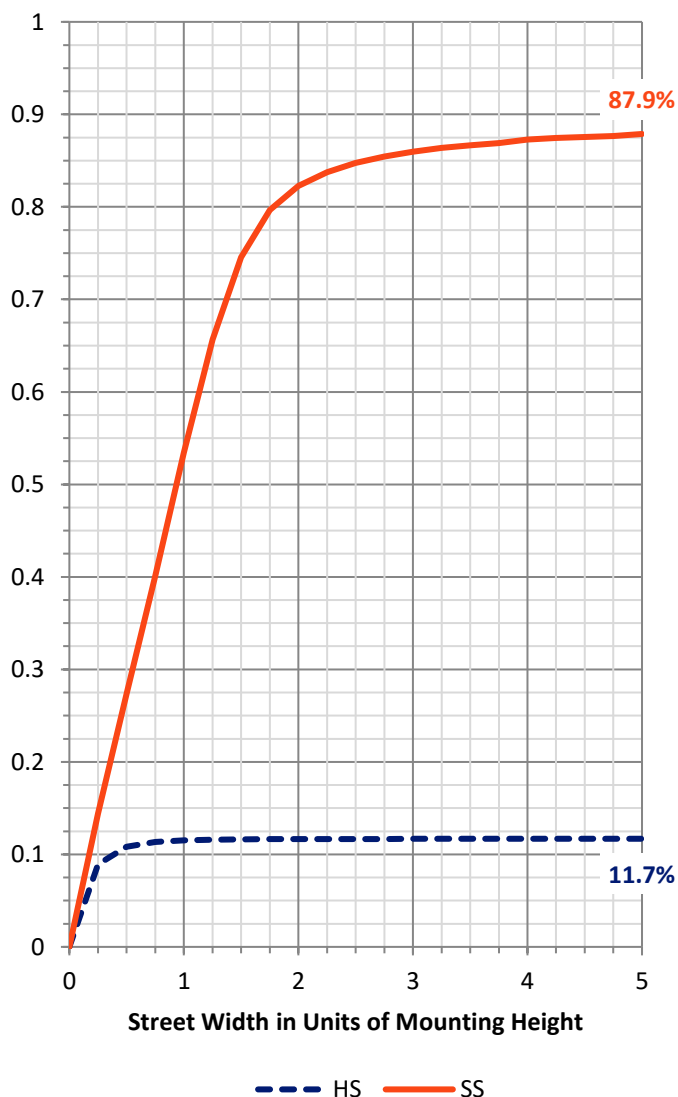
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2049.6	0.0	2049.6
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	15338.4	0.0	15338.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	17388.0	0.0	17388.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.4	2.1
10°-20°	804.3	4.6
20°-30°	1114.0	6.4
30°-40°	1553.3	8.9
40°-50°	2414.3	13.9
50°-60°	3875.9	22.3
60°-70°	4384.3	25.2
70°-80°	2574.9	14.8
80°-90°	299.5	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°	17388.0	100.0
0°-180°	17388.0	100.0

**Coefficient of Utilization**

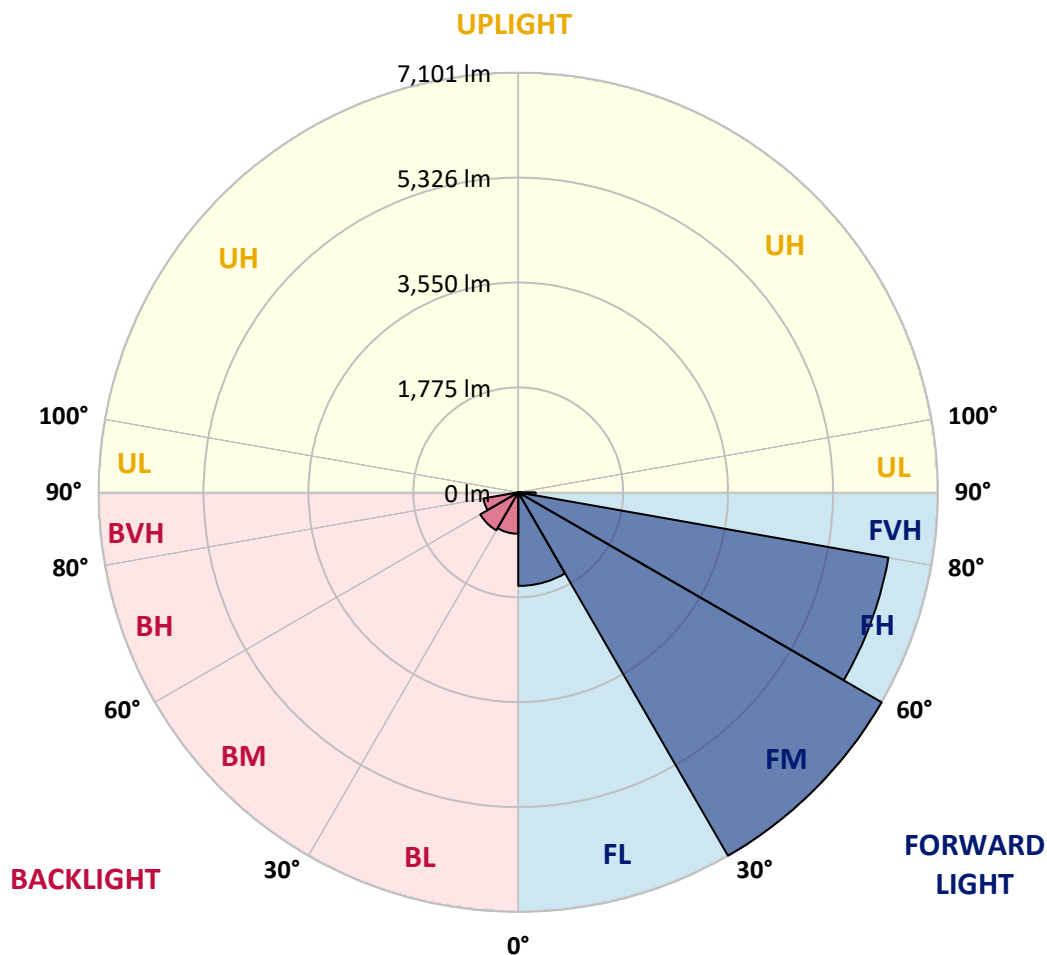


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.5	9.1			
FM (30°-60°)	7100.8	40.8			
FH (60°-80°)	6360.4	36.6			G3/7500
FVH (80°-90°)	292.8	1.7			G3/500
BL (0°-30°)	701.3	4.0	B2/1000		
BM (30°-60°)	742.7	4.3	B1/1000		
BH (60°-80°)	598.9	3.4	B2/1000		G2/1000
BVH (80°-90°)	6.7	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-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0
2.5°	4433.0	4421.9	4430.8	4449.9	4459.5	4459.5	4466.8	4458.0	4460.9	4439.6	4408.7
5°	4155.6	4138.7	4162.9	4216.7	4282.9	4339.5	4423.4	4467.6	4472.0	4472.7	4436.7
7.5°	3856.9	3841.4	3877.5	3940.7	4026.1	4131.3	4277.7	4405.8	4413.1	4482.3	4455.8
10°	3614.1	3603.0	3645.0	3712.7	3812.7	3930.4	4110.0	4288.0	4309.4	4462.4	4452.8
12.5°	3421.3	3412.5	3452.2	3530.2	3632.5	3762.7	3950.3	4157.1	4185.8	4417.5	4438.1
15°	3280.8	3279.3	3312.4	3387.5	3500.8	3622.2	3814.2	4035.7	4068.8	4369.0	4435.9
17.5°	3207.2	3209.4	3233.7	3297.7	3394.8	3515.5	3699.4	3933.4	3969.4	4325.6	4447.0
20°	3199.8	3202.0	3215.3	3251.3	3330.1	3436.8	3606.0	3847.3	3884.8	4293.2	4464.6
22.5°	3264.6	3263.1	3266.8	3263.1	3307.3	3388.2	3544.2	3781.1	3824.5	4271.8	4478.6
25°	3388.9	3386.7	3385.2	3358.0	3328.6	3372.0	3518.4	3743.6	3784.8	4256.4	4486.7
27.5°	3561.8	3560.4	3558.2	3513.3	3425.0	3397.8	3521.4	3729.6	3764.2	4243.9	4485.2
30°	3789.2	3799.5	3796.5	3734.0	3596.4	3476.5	3552.3	3722.2	3752.4	4219.6	4469.8
32.5°	4056.3	4076.9	4093.1	4026.1	3853.9	3632.5	3623.6	3730.3	3752.4	4201.2	4441.8
35°	4333.6	4360.1	4419.7	4396.2	4169.6	3867.2	3746.5	3778.9	3797.3	4211.5	4428.6
37.5°	4606.6	4638.3	4767.7	4836.2	4583.1	4177.7	3937.8	3898.8	3908.4	4274.0	4443.3
40°	4923.7	4971.6	5168.0	5278.4	5076.8	4593.4	4224.0	4104.8	4108.5	4411.6	4511.7
42.5°	5340.2	5389.5	5602.1	5775.0	5633.0	5118.7	4612.5	4419.7	4416.1	4669.2	4672.8
45°	5847.8	5899.3	6119.3	6311.4	6247.4	5741.2	5109.9	4879.6	4875.2	5075.3	4978.2
47.5°	6423.2	6474.0	6670.4	6868.3	6937.5	6468.1	5743.4	5507.2	5496.9	5639.6	5449.8
50°	6916.9	6950.0	7131.0	7397.4	7709.3	7361.3	6531.4	6304.0	6293.0	6389.4	6142.2
52.5°	7096.4	7115.6	7299.5	7672.5	8451.0	8570.9	7566.6	7273.8	7265.7	7307.6	7064.1
55°	6733.0	6767.6	6993.4	7546.7	8852.7	9938.0	8873.3	8474.5	8413.5	8323.0	8027.9
57.5°	5742.6	5797.8	6040.6	6776.4	8665.1	11022.5	10793.6	9832.7	9743.0	9189.7	8811.5
60°	4302.7	4370.4	4572.0	5365.9	7663.7	11408.7	12892.0	11346.2	11143.9	9879.8	9531.8
62.5°	2952.6	2986.5	3123.3	3640.6	5644.0	10776.0	14647.6	13373.2	13003.9	10630.3	10311.0
65°	2255.1	2266.9	2322.8	2500.9	3361.0	8753.4	15345.8	16047.7	15601.1	11527.9	11119.6
67.5°	1817.3	1807.8	1885.0	2139.6	2250.7	5340.2	14531.3	18578.0	18369.1	12728.0	11933.3
69°	1602.5	1589.2	1668.0	1963.8	2113.8	3530.2	12990.6	19152.7	19165.9	13361.5	11989.3
70°	1442.1	1450.9	1528.9	1859.3	2067.5	2770.9	11519.1	19006.2	19110.7	13598.4	11653.8
72.5°	963.1	986.7	1143.4	1543.6	1988.0	2096.9	6955.2	16309.7	16711.4	13064.9	9998.3
75°	543.0	560.7	746.8	1164.0	1873.3	1996.9	3673.7	12015.7	12404.2	10925.3	7710.1
77.5°	266.3	275.9	422.3	751.2	1566.4	1902.7	2083.7	8161.8	8605.5	7131.0	4360.9
80°	112.6	117.7	211.2	463.5	1119.8	1815.9	1547.3	5023.1	5078.2	2793.7	1161.8
82.5°	43.4	44.9	89.0	289.2	711.5	1415.6	1294.2	2381.7	2324.3	526.1	264.9
85°	5.2	5.9	32.4	173.6	395.8	728.4	1051.4	1026.4	949.9	104.5	136.1
87.5°	0.0	0.0	2.2	53.0	117.7	341.4	546.7	426.0	384.1	33.8	70.6
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°	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0	4394.0
2.5°	4382.9	4375.6	4335.9	4278.5	4224.0	4156.3	4091.6	4052.6	4021.7	4001.1	4025.4
5°	4394.7	4362.3	4241.7	4087.2	3935.6	3764.9	3606.0	3471.3	3418.4	3359.5	3386.0
7.5°	4391.0	4330.0	4112.9	3837.7	3559.6	3271.9	2999.7	2790.0	2681.1	2574.4	2601.7
10°	4372.6	4269.6	3940.7	3533.1	3116.7	2703.2	2316.9	2023.3	1859.3	1710.6	1732.0
12.5°	4332.2	4188.7	3737.7	3184.4	2627.4	2082.2	1629.7	1253.7	1052.1	963.1	974.2
15°	4307.9	4110.0	3522.8	2831.2	2105.0	1450.2	996.2	740.9	648.9	619.5	623.2
17.5°	4296.1	4034.2	3300.6	2427.3	1570.9	923.4	643.8	568.0	548.1	543.0	544.5
20°	4284.3	3957.7	3071.8	2027.8	1082.3	621.0	529.0	506.9	499.6	493.0	494.4
22.5°	4264.5	3884.1	2826.1	1623.1	729.9	504.0	476.8	455.4	440.0	431.9	433.4
25°	4240.2	3806.8	2575.2	1208.9	532.7	449.6	423.8	393.6	375.2	360.5	361.3
27.5°	4201.2	3711.9	2316.2	880.0	447.3	402.5	367.9	334.8	303.9	286.9	286.9
30°	4146.8	3604.5	2028.5	629.8	401.0	356.1	314.2	273.0	239.9	224.4	222.9
32.5°	4086.4	3492.7	1737.9	477.5	364.2	312.7	264.9	221.5	192.0	179.5	178.8
35°	4034.9	3372.0	1448.0	400.3	327.4	270.8	218.5	181.7	158.2	147.9	147.2
37.5°	4001.8	3251.3	1165.4	357.6	294.3	231.8	183.2	150.1	133.2	125.1	124.3
40°	3996.7	3161.6	907.2	325.2	263.4	197.2	153.0	127.3	111.8	103.0	102.3
42.5°	4063.6	3110.1	696.0	298.0	231.8	167.0	130.2	108.9	92.7	83.9	83.1
45°	4239.5	3126.3	535.6	273.7	200.1	141.3	110.4	90.5	75.8	69.2	67.7
47.5°	4560.3	3238.1	426.0	249.4	170.0	119.9	94.2	75.0	62.5	55.9	55.2
50°	5131.2	3500.8	356.1	222.9	142.0	102.3	78.0	61.1	50.8	44.9	44.1
52.5°	5889.0	3968.7	317.8	197.2	117.7	86.8	64.0	48.6	39.7	35.3	34.6
55°	6724.9	4535.2	292.8	169.2	96.4	72.1	50.8	38.3	30.9	27.2	25.8
57.5°	7540.8	5026.0	269.3	142.0	80.2	58.9	40.5	30.2	24.3	20.6	19.9
60°	8290.6	5477.0	242.1	114.0	65.5	46.4	31.6	23.5	19.1	15.5	15.5
62.5°	9093.3	5825.8	204.5	89.0	53.7	35.3	25.8	21.3	15.5	13.2	12.5
65°	9943.8	6084.8	160.4	69.2	41.9	26.5	21.3	22.1	12.5	9.6	8.8
67.5°	10572.2	6033.3	118.5	54.4	32.4	20.6	20.6	23.5	11.0	7.4	6.6
69°	10433.9	5614.6	99.3	47.1	28.0	17.7	19.1	23.5	10.3	6.6	5.9
70°	10032.9	5151.1	87.6	41.9	25.0	16.2	18.4	22.8	9.6	6.6	5.9
72.5°	8355.3	3879.7	68.4	31.6	19.9	13.2	15.5	19.9	9.6	6.6	5.2
75°	6284.9	2483.2	52.2	22.8	14.7	10.3	11.8	14.7	9.6	5.9	5.2
77.5°	3419.8	895.4	37.5	15.5	10.3	8.1	8.1	11.0	8.8	4.4	2.9
80°	879.2	225.1	23.5	10.3	8.1	5.9	5.2	7.4	5.2	0.7	0.0
82.5°	217.1	50.8	12.5	7.4	5.9	2.2	2.2	3.7	2.2	0.0	0.0
85°	119.2	25.0	8.1	5.2	2.9	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	61.1	7.4	2.2	1.5	0.7	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)