

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: P323168

Luminaire Tested: **GAN-SA4C-730-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323168  
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-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 21522 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

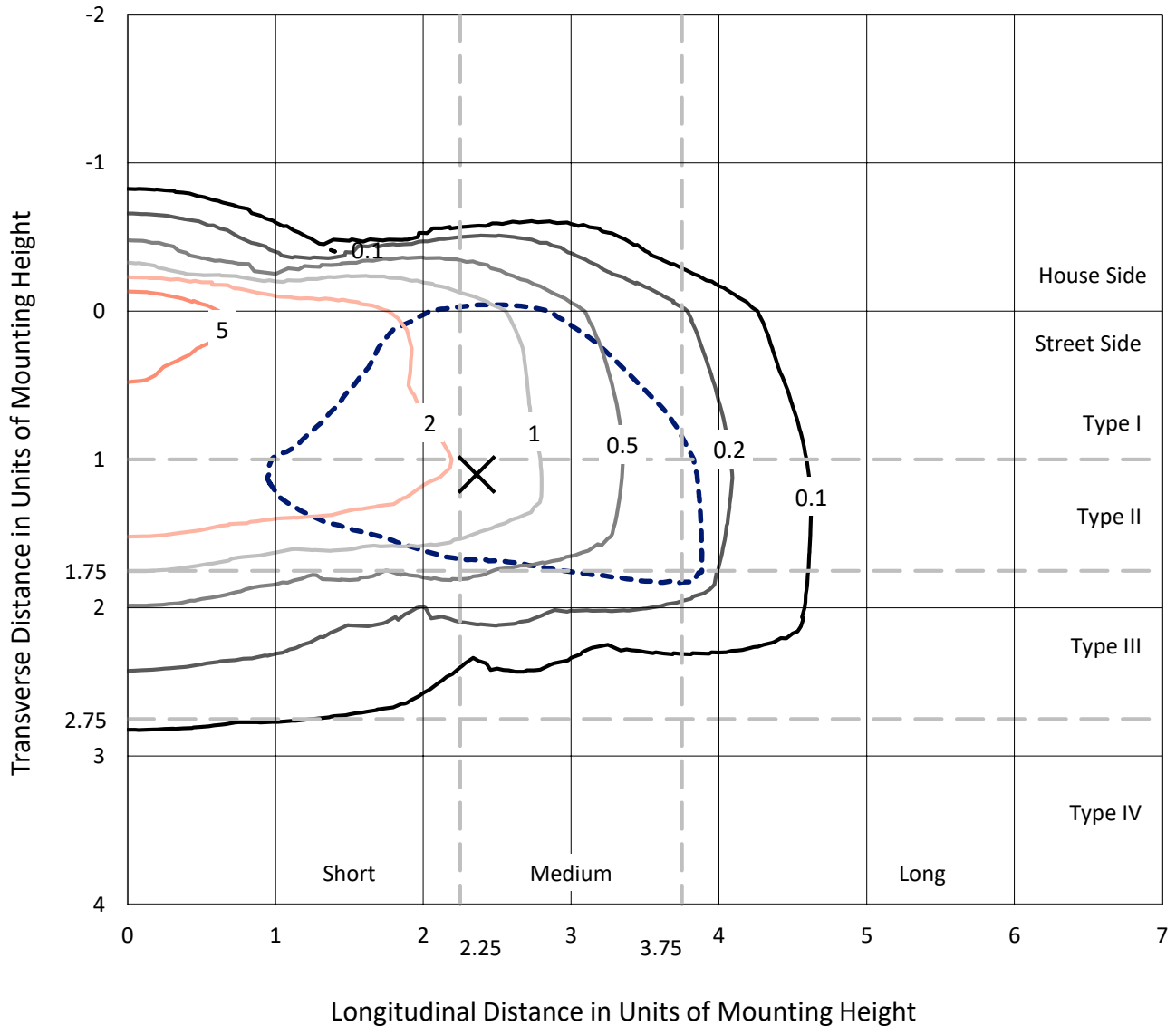
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

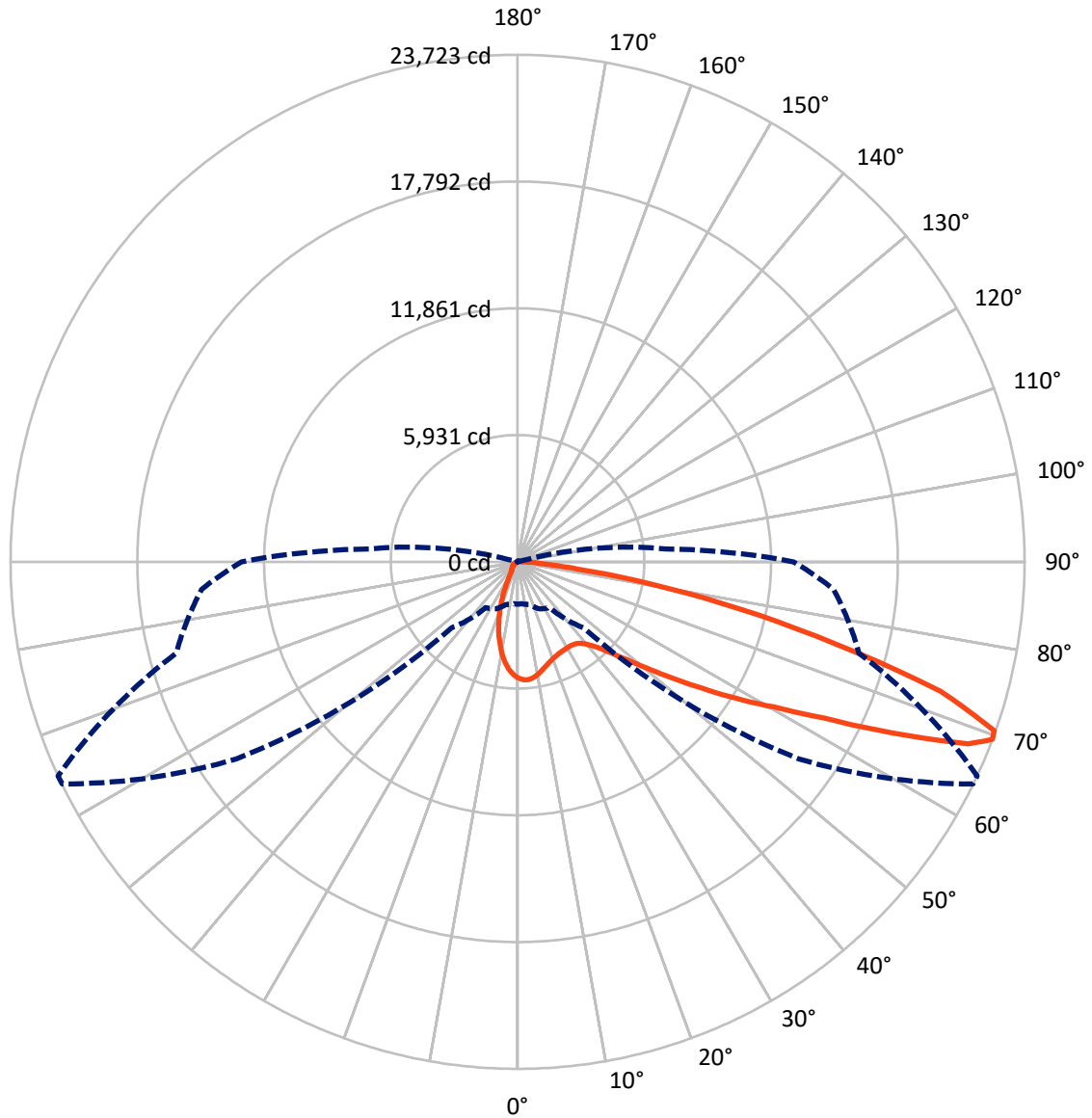
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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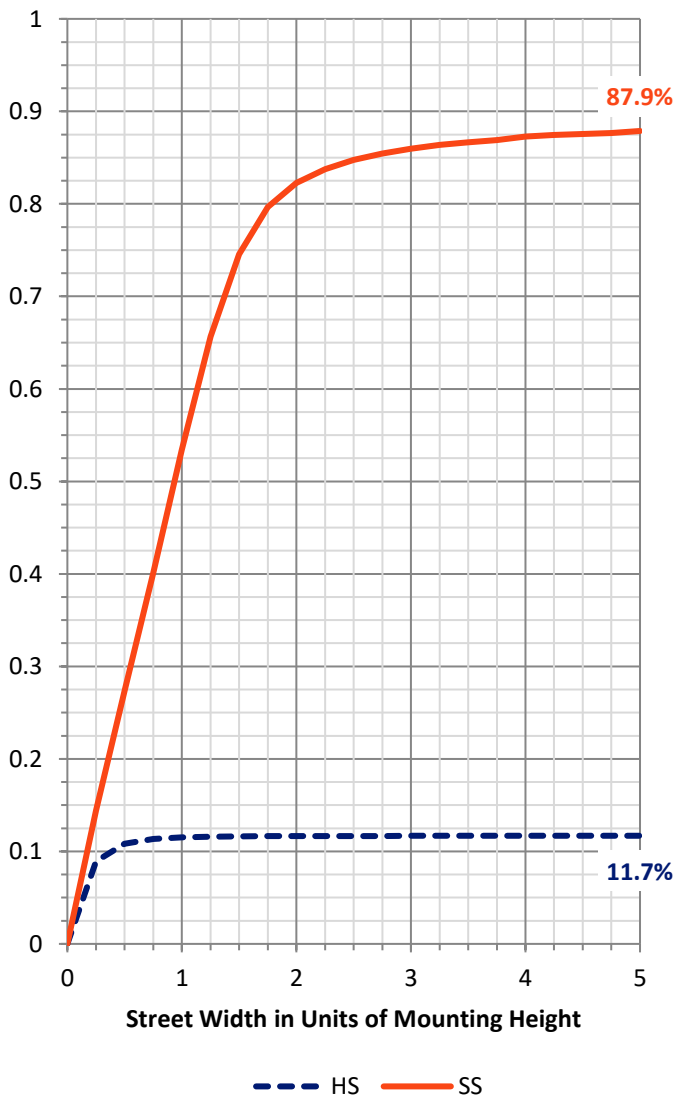
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2536.9	0.0	2536.9
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	18985.1	0.0	18985.1
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	21522.0	0.0	21522.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.8	2.1
10°-20°	995.5	4.6
20°-30°	1378.9	6.4
30°-40°	1922.6	8.9
40°-50°	2988.3	13.9
50°-60°	4797.4	22.3
60°-70°	5426.7	25.2
70°-80°	3187.1	14.8
80°-90°	370.7	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°	21522.0	100.0
0°-180°	21522.0	100.0

**Coefficient of Utilization**

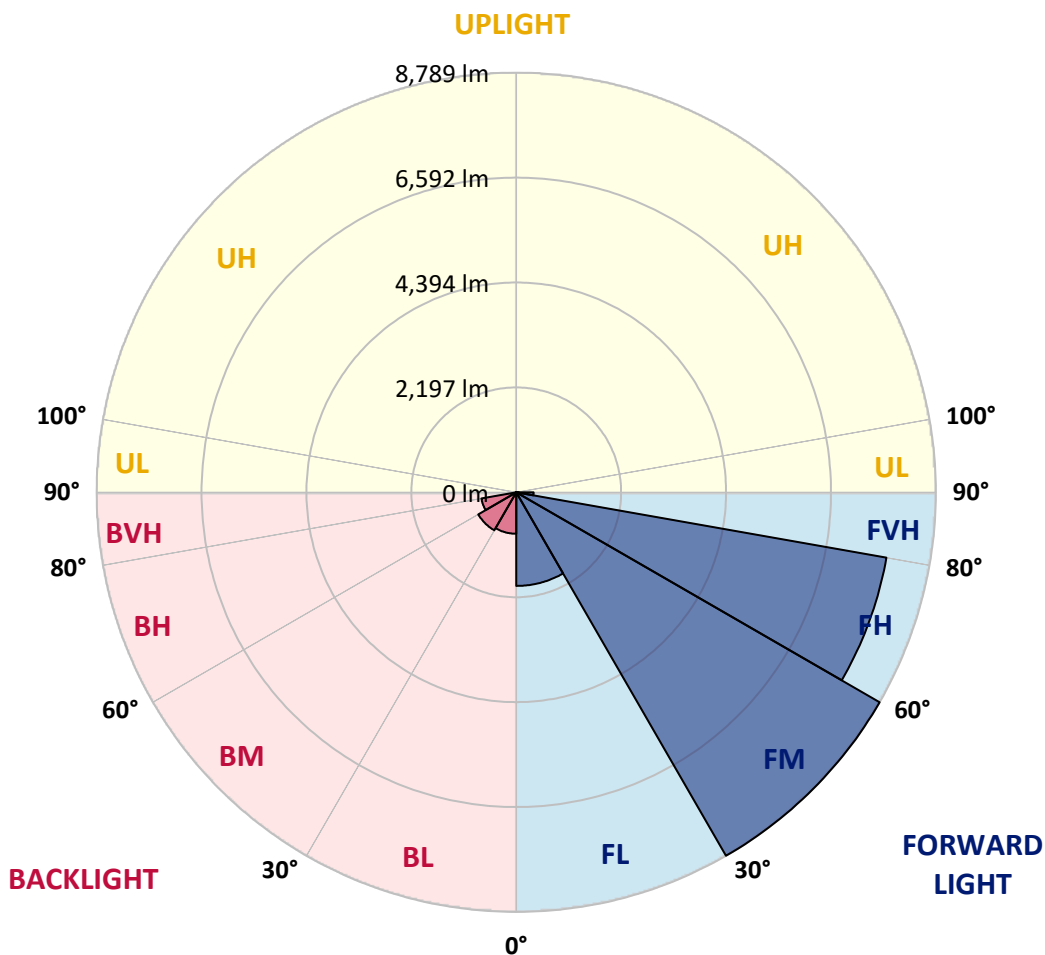


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1961.2	9.1			
FM (30°-60°)	8789.0	40.8			
FH (60°-80°)	7872.5	36.6			G4/12000
FVH (80°-90°)	362.4	1.7			G3/500
BL (0°-30°)	868.0	4.0	B2/1000		
BM (30°-60°)	919.3	4.3	B1/1000		
BH (60°-80°)	741.2	3.4	B2/1000		G2/1000
BVH (80°-90°)	8.3	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°	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6
2.5°	5486.9	5473.3	5484.2	5507.9	5519.7	5519.7	5528.8	5517.9	5521.5	5495.1	5456.9
5°	5143.6	5122.6	5152.7	5219.2	5301.1	5371.3	5475.1	5529.7	5535.2	5536.1	5491.5
7.5°	4773.8	4754.7	4799.3	4877.7	4983.3	5113.5	5294.8	5453.2	5462.3	5547.9	5515.1
10°	4473.3	4459.7	4511.6	4595.3	4719.2	4864.9	5087.1	5307.5	5333.9	5523.3	5511.5
12.5°	4234.7	4223.8	4273.0	4369.5	4496.1	4657.3	4889.5	5145.4	5180.9	5467.8	5493.3
15°	4060.8	4059.0	4099.9	4192.8	4333.1	4483.3	4721.0	4995.1	5036.1	5407.7	5490.6
17.5°	3969.7	3972.4	4002.5	4081.7	4201.9	4351.3	4579.0	4868.6	4913.2	5354.0	5504.2
20°	3960.6	3963.3	3979.7	4024.3	4121.8	4253.8	4463.3	4762.0	4808.4	5313.9	5526.1
22.5°	4040.7	4038.9	4043.5	4038.9	4093.6	4193.7	4386.8	4680.0	4733.8	5287.5	5543.4
25°	4194.6	4191.9	4190.1	4156.4	4120.0	4173.7	4354.9	4633.6	4684.6	5268.3	5553.4
27.5°	4408.7	4406.8	4404.1	4348.5	4239.3	4205.6	4358.6	4616.3	4659.1	5252.9	5551.6
30°	4690.1	4702.8	4699.2	4621.8	4451.5	4303.0	4396.8	4607.2	4644.5	5222.8	5532.4
32.5°	5020.6	5046.1	5066.2	4983.3	4770.2	4496.1	4485.2	4617.2	4644.5	5200.0	5497.8
35°	5364.0	5396.8	5470.5	5441.4	5160.9	4786.6	4637.2	4677.3	4700.1	5212.8	5481.4
37.5°	5701.8	5741.0	5901.3	5986.0	5672.7	5170.9	4874.0	4825.8	4837.6	5290.2	5499.7
40°	6094.3	6153.5	6396.7	6533.3	6283.8	5685.4	5228.3	5080.7	5085.3	5460.5	5584.4
42.5°	6609.8	6670.8	6934.0	7148.0	6972.3	6335.7	5709.1	5470.5	5466.0	5779.2	5783.8
45°	7238.2	7301.9	7574.2	7811.9	7732.7	7106.1	6324.7	6039.7	6034.2	6281.9	6161.7
47.5°	7950.3	8013.2	8256.3	8501.3	8586.9	8005.9	7108.9	6816.5	6803.8	6980.4	6745.5
50°	8561.4	8602.4	8826.4	9156.1	9542.2	9111.5	8084.2	7802.8	7789.1	7908.4	7602.4
52.5°	8783.6	8807.3	9035.0	9496.7	10460.2	10608.6	9365.5	9003.1	8993.1	9045.0	8743.5
55°	8333.7	8376.5	8656.1	9341.0	10957.4	12300.7	10982.9	10489.3	10413.8	10301.7	9936.6
57.5°	7107.9	7176.2	7476.8	8387.5	10725.2	13643.1	13359.8	12170.5	12059.4	11374.5	10906.4
60°	5325.7	5409.5	5659.0	6641.7	9485.8	14121.2	15957.1	14043.8	13793.3	12228.8	11798.0
62.5°	3654.6	3696.5	3865.9	4506.1	6985.9	13338.0	18130.0	16552.7	16095.6	13157.7	12762.4
65°	2791.3	2805.8	2875.1	3095.4	4160.0	10834.5	18994.3	19863.1	19310.3	14268.7	13763.3
67.5°	2249.4	2237.6	2333.2	2648.3	2785.8	6609.8	17986.1	22994.9	22736.3	15754.0	14770.5
69°	1983.5	1967.1	2064.5	2430.6	2616.4	4369.5	16079.2	23706.2	23722.6	16538.1	14839.7
70°	1785.0	1795.9	1892.4	2301.3	2559.0	3429.7	14257.8	23525.0	23654.3	16831.4	14424.4
72.5°	1192.1	1221.2	1415.2	1910.6	2460.7	2595.5	8608.8	20187.3	20684.5	16171.1	12375.4
75°	672.1	693.9	924.4	1440.7	2318.6	2471.6	4547.1	14872.5	15353.3	13522.9	9543.1
77.5°	329.7	341.5	522.7	929.8	1938.9	2355.0	2579.1	10102.3	10651.4	8826.4	5397.7
80°	139.3	145.7	261.4	573.7	1386.1	2247.6	1915.2	6217.3	6285.6	3457.9	1438.0
82.5°	53.7	55.6	110.2	357.9	880.6	1752.2	1601.9	2947.9	2876.9	651.1	327.8
85°	6.4	7.3	40.1	214.9	490.0	901.6	1301.4	1270.4	1175.7	129.3	168.5
87.5°	0.0	0.0	2.7	65.6	145.7	422.6	676.6	527.3	475.4	41.9	87.4
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°	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6	5438.6
2.5°	5425.0	5415.9	5366.7	5295.7	5228.3	5144.5	5064.4	5016.1	4977.8	4952.3	4982.4
5°	5439.6	5399.5	5250.1	5058.9	4871.3	4660.0	4463.3	4296.6	4231.1	4158.2	4191.0
7.5°	5435.0	5359.4	5090.8	4750.2	4405.9	4049.8	3712.9	3453.3	3318.6	3186.5	3220.2
10°	5412.2	5284.7	4877.7	4373.1	3857.7	3345.9	2867.8	2504.4	2301.3	2117.4	2143.8
12.5°	5362.1	5184.6	4626.3	3941.5	3252.1	2577.3	2017.2	1551.8	1302.3	1192.1	1205.8
15°	5332.1	5087.1	4360.4	3504.3	2605.5	1795.0	1233.1	917.1	803.2	766.8	771.4
17.5°	5317.5	4993.3	4085.4	3004.4	1944.3	1142.9	796.9	703.1	678.5	672.1	673.9
20°	5303.0	4898.6	3802.1	2509.9	1339.6	768.6	654.8	627.5	618.4	610.2	612.0
22.5°	5278.4	4807.5	3498.0	2009.0	903.4	623.8	590.1	563.7	544.6	534.6	536.4
25°	5248.3	4711.9	3187.4	1496.3	659.3	556.4	524.6	487.2	464.5	446.2	447.1
27.5°	5200.0	4594.4	2866.9	1089.2	553.7	498.1	455.3	414.4	376.1	355.2	355.2
30°	5132.7	4461.5	2510.8	779.6	496.3	440.8	388.9	337.9	296.9	277.8	275.9
32.5°	5058.0	4323.1	2151.1	591.0	450.8	387.0	327.8	274.1	237.7	222.2	221.3
35°	4994.2	4173.7	1792.2	495.4	405.3	335.1	270.5	224.9	195.8	183.0	182.1
37.5°	4953.2	4024.3	1442.5	442.6	364.3	286.9	226.8	185.8	164.8	154.8	153.9
40°	4946.9	3913.2	1122.9	402.5	326.0	244.1	189.4	157.5	138.4	127.5	126.6
42.5°	5029.7	3849.5	861.5	368.8	286.9	206.7	161.2	134.8	114.7	103.8	102.9
45°	5247.4	3869.5	663.0	338.8	247.7	174.9	136.6	112.0	93.8	85.6	83.8
47.5°	5644.5	4008.0	527.3	308.7	210.4	148.4	116.6	92.9	77.4	69.2	68.3
50°	6351.2	4333.1	440.8	275.9	175.8	126.6	96.5	75.6	62.8	55.6	54.6
52.5°	7289.2	4912.3	393.4	244.1	145.7	107.5	79.2	60.1	49.2	43.7	42.8
55°	8323.7	5613.5	362.5	209.5	119.3	89.2	62.8	47.4	38.2	33.7	31.9
57.5°	9333.7	6220.9	333.3	175.8	99.3	72.9	50.1	37.3	30.1	25.5	24.6
60°	10261.7	6779.2	299.6	141.2	81.1	57.4	39.2	29.1	23.7	19.1	19.1
62.5°	11255.2	7210.9	253.2	110.2	66.5	43.7	31.9	26.4	19.1	16.4	15.5
65°	12308.0	7531.4	198.5	85.6	51.9	32.8	26.4	27.3	15.5	11.8	10.9
67.5°	13085.7	7467.7	146.6	67.4	40.1	25.5	25.5	29.1	13.7	9.1	8.2
69°	12914.5	6949.5	122.9	58.3	34.6	21.9	23.7	29.1	12.7	8.2	7.3
70°	12418.2	6375.7	108.4	51.9	31.0	20.0	22.8	28.2	11.8	8.2	7.3
72.5°	10341.8	4802.1	84.7	39.2	24.6	16.4	19.1	24.6	11.8	8.2	6.4
75°	7779.1	3073.6	64.7	28.2	18.2	12.7	14.6	18.2	11.8	7.3	6.4
77.5°	4232.9	1108.3	46.4	19.1	12.7	10.0	10.0	13.7	10.9	5.5	3.6
80°	1088.3	278.7	29.1	12.7	10.0	7.3	6.4	9.1	6.4	0.9	0.0
82.5°	268.7	62.8	15.5	9.1	7.3	2.7	2.7	4.6	2.7	0.0	0.0
85°	147.5	31.0	10.0	6.4	3.6	0.0	0.0	0.9	0.0	0.0	0.0
87.5°	75.6	9.1	2.7	1.8	0.9	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)