

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: P323489

Luminaire Tested: **GAN-SA5C-730-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323489  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27503 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

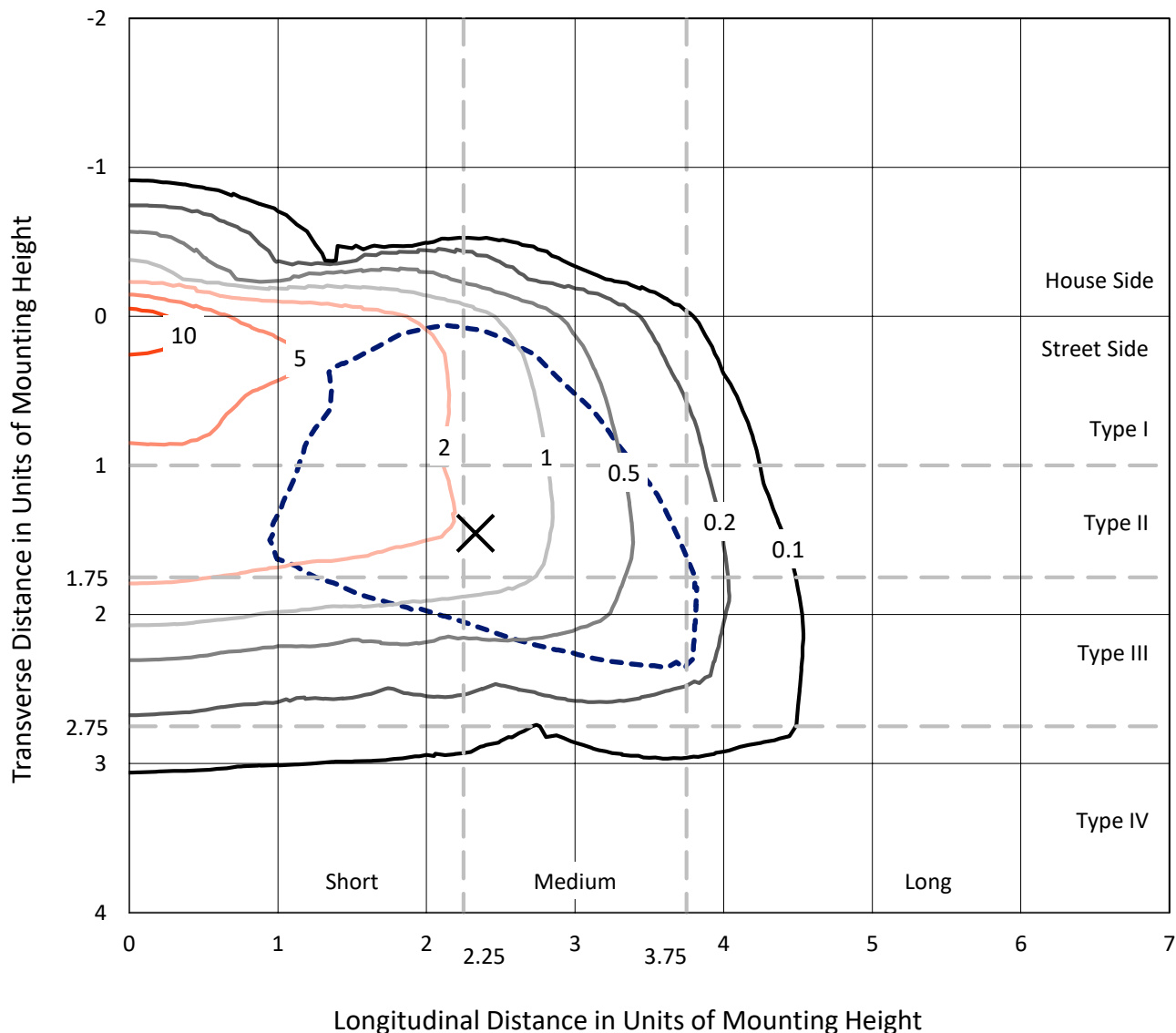
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

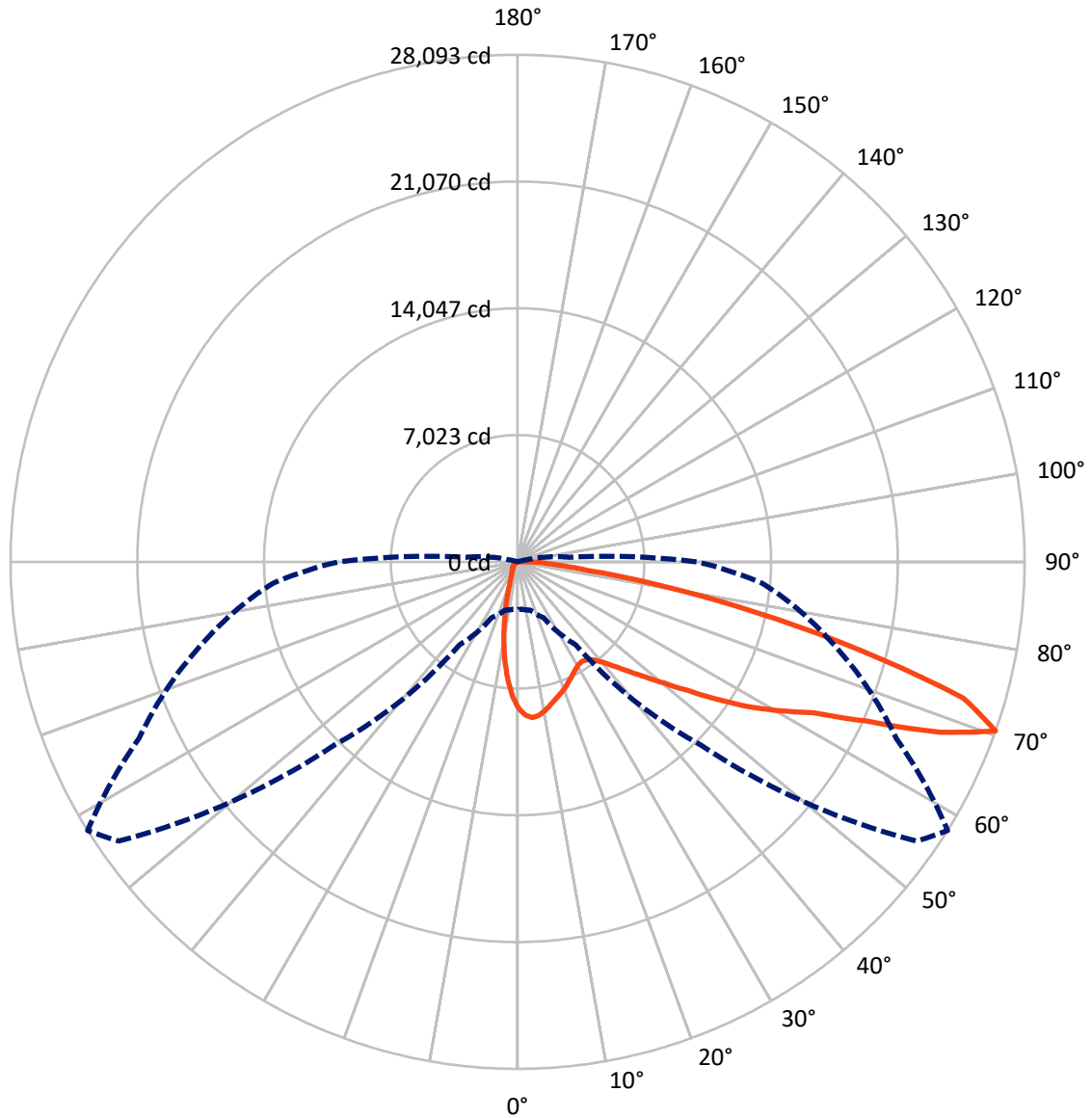
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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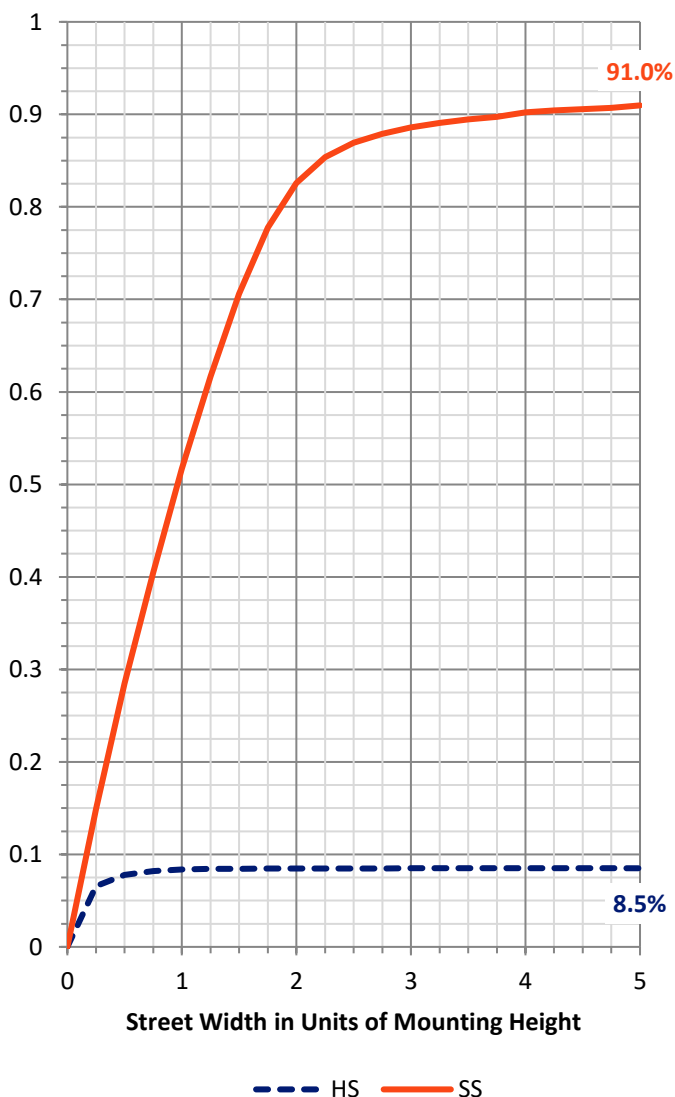
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2353.6	0.0	2353.6
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	25149.3	0.0	25149.3
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	27503.0	0.0	27503.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	664.4	2.4
10°-20°	1394.3	5.1
20°-30°	1833.1	6.7
30°-40°	2427.7	8.8
40°-50°	3628.6	13.2
50°-60°	5812.9	21.1
60°-70°	7327.1	26.6
70°-80°	3952.2	14.4
80°-90°	462.6	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°	27503.0	100.0
0°-180°	27503.0	100.0

**Coefficient of Utilization**



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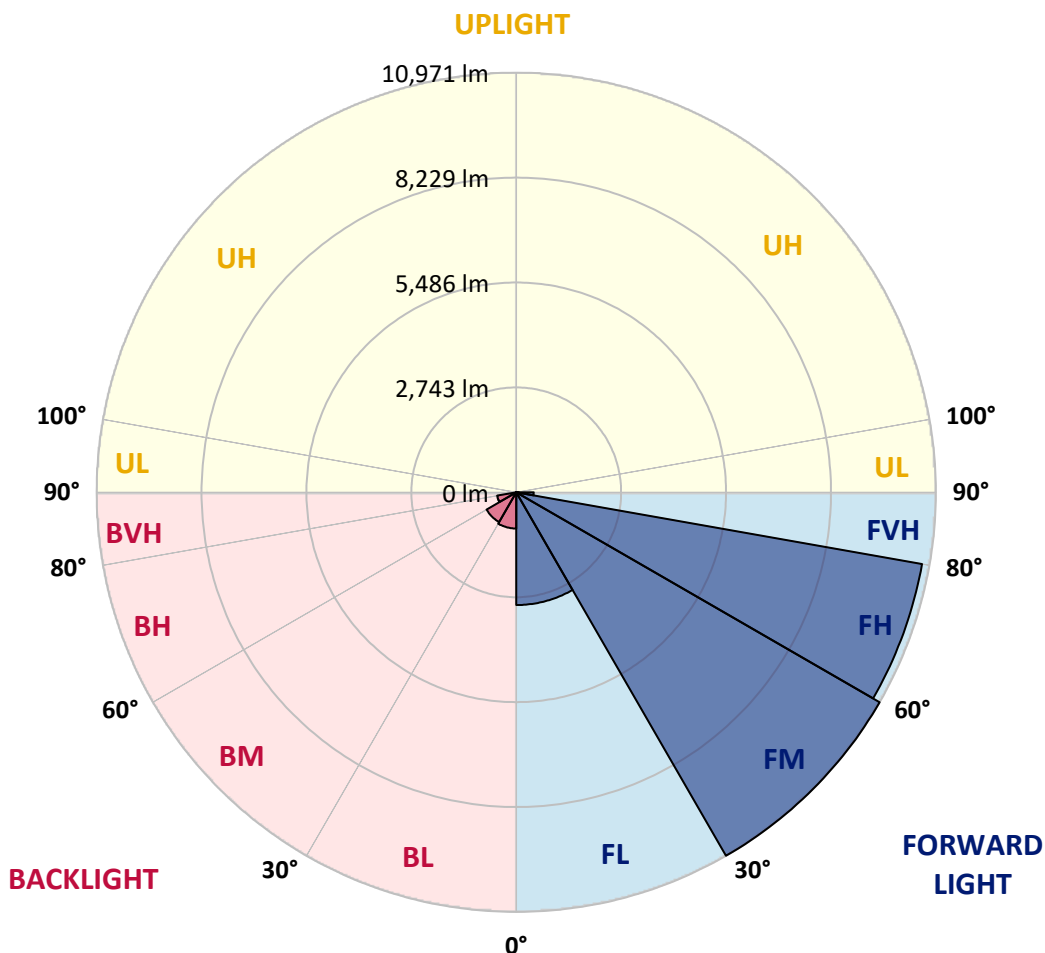
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2946.1	10.7			
FM (30°-60°)	10971.4	39.9			
FH (60°-80°)	10773.2	39.2			G4/12000
FVH (80°-90°)	458.6	1.7			G3/500
BL (0°-30°)	945.6	3.4	B2/1000		
BM (30°-60°)	897.9	3.3	B1/1000		
BH (60°-80°)	506.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.0	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3
2.5°	8797.8	8776.1	8768.1	8754.4	8701.8	8650.3	8548.5	8519.9	8455.9	8303.8	8142.6
5°	8804.7	8803.6	8827.6	8821.9	8803.6	8779.5	8706.4	8668.6	8560.0	8342.7	8047.6
7.5°	8380.4	8402.2	8455.9	8499.4	8549.7	8614.9	8624.0	8587.4	8498.2	8263.8	7872.7
10°	7810.9	7845.2	7920.7	8006.5	8138.0	8268.4	8385.0	8380.4	8349.5	8118.5	7662.2
12.5°	7240.2	7280.3	7367.2	7494.1	7680.5	7893.2	8101.4	8130.0	8181.4	7988.2	7467.8
15°	6740.5	6774.8	6860.6	7016.1	7247.1	7533.0	7838.4	7891.0	8023.6	7886.4	7305.4
17.5°	6316.2	6337.9	6400.8	6573.5	6841.1	7187.6	7584.5	7687.4	7885.2	7806.3	7164.8
20°	6020.0	6023.4	6064.6	6185.8	6453.4	6841.1	7321.4	7469.0	7738.9	7737.7	7019.5
22.5°	5873.6	5862.2	5870.2	5939.9	6136.6	6510.6	7058.4	7233.4	7607.3	7679.4	6872.0
25°	5846.2	5837.0	5814.1	5823.3	5942.2	6221.3	6793.1	6995.5	7491.8	7643.9	6743.9
27.5°	5931.9	5941.1	5902.2	5861.0	5870.2	6033.7	6557.5	6791.9	7398.1	7643.9	6653.6
30°	6104.6	6109.2	6080.6	6026.9	5954.8	5981.1	6394.0	6628.4	7351.2	7696.5	6596.4
32.5°	6295.6	6320.8	6317.3	6273.9	6171.0	6064.6	6355.1	6568.9	7347.7	7813.2	6590.7
35°	6532.3	6560.9	6609.0	6599.8	6492.3	6317.3	6487.7	6655.9	7415.2	8005.3	6652.4
37.5°	6783.9	6827.4	6930.3	6979.5	6909.7	6711.9	6785.1	6905.2	7595.9	8316.4	6809.1
40°	7027.5	7076.7	7264.3	7457.5	7404.9	7201.4	7235.7	7331.7	7917.3	8763.5	7106.4
42.5°	7266.5	7339.7	7615.3	7933.3	7996.2	7833.8	7852.1	7928.7	8394.1	9378.8	7592.5
45°	7552.4	7634.8	8043.1	8435.3	8603.4	8532.5	8610.3	8660.6	9017.4	10191.9	8247.8
47.5°	7972.2	8067.1	8568.0	9015.1	9310.2	9355.9	9512.6	9545.8	9805.4	11138.8	9102.0
50°	8791.0	8817.3	9270.2	9676.1	10101.6	10376.0	10554.4	10579.6	10759.1	12173.8	10169.0
52.5°	9821.4	9838.5	10094.7	10366.9	10850.6	11411.0	11828.4	11863.9	11901.6	13182.5	11222.3
55°	10844.9	10842.6	11011.9	11172.0	11725.5	12539.8	13445.5	13467.2	13196.2	14139.7	12027.4
57.5°	11484.2	11546.0	11803.3	12009.1	12782.2	13826.3	15083.2	15163.2	14556.0	14848.7	12823.4
60°	11280.6	11310.4	11881.0	12642.7	14098.5	15655.0	16740.3	16760.9	15578.4	15556.6	13829.8
62.5°	9611.0	9627.0	10523.6	12093.8	14765.2	18026.8	18739.3	18404.2	16754.0	16539.0	15034.0
65°	6587.2	6691.3	7440.4	9381.1	13540.4	19514.7	21833.9	21279.3	18546.0	17954.8	16122.7
67.5°	3879.1	3857.4	4228.0	5657.5	9944.9	18526.6	25748.5	25197.3	20989.9	18902.8	15803.6
70°	2649.8	2634.9	2776.7	3425.1	5614.0	14371.8	26980.2	28093.0	23148.0	18264.7	13601.0
72.5°	1891.5	1899.5	2108.8	2661.2	3524.6	8373.6	23201.7	25835.5	22472.1	15922.6	10338.3
75°	1284.3	1306.0	1605.6	2183.2	3090.1	4260.0	16464.7	19639.3	18299.0	11572.3	5942.2
77.5°	690.7	714.8	1068.1	1758.9	2793.9	2959.7	10591.0	13516.4	11494.5	5202.3	1722.3
80°	288.2	301.9	499.8	1278.6	2414.2	2599.4	6231.6	8196.3	4898.1	1025.8	384.3
82.5°	124.7	131.5	208.1	762.8	1804.6	2194.6	3299.3	3943.2	1484.4	225.3	193.3
85°	24.0	25.2	85.8	403.7	1151.6	1238.5	2138.6	2096.3	666.7	97.2	140.7
87.5°	0.0	0.0	20.6	126.9	338.5	674.7	1304.9	1288.9	226.4	46.9	52.6
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°	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3	8124.3
2.5°	8060.2	7981.3	7815.5	7610.8	7454.1	7281.4	7144.2	6970.3	6894.9	6898.3	6857.1
5°	7879.5	7717.1	7350.0	6886.9	6530.1	6161.8	5845.0	5529.4	5343.0	5282.4	5225.2
7.5°	7621.1	7363.8	6778.2	6064.6	5460.8	4870.7	4357.2	3905.5	3619.5	3480.0	3428.6
10°	7329.4	6968.1	6120.6	5180.6	4318.3	3520.1	2854.5	2275.8	2044.8	1888.1	1848.1
12.5°	7073.3	6583.8	5477.9	4273.7	3250.2	2287.2	1652.5	1292.3	1135.6	1073.9	1063.6
15°	6832.0	6224.7	4859.2	3452.6	2250.6	1407.8	1051.0	928.6	892.0	881.7	881.7
17.5°	6604.4	5882.8	4254.3	2644.0	1489.0	986.9	870.3	842.8	831.4	830.3	831.4
20°	6366.5	5540.8	3659.6	1937.3	1039.5	836.0	804.0	789.1	785.7	785.7	785.7
22.5°	6138.9	5198.9	3080.9	1383.8	833.7	762.8	746.8	736.5	733.1	731.9	729.6
25°	5920.5	4874.1	2516.0	977.8	731.9	698.8	685.0	671.3	661.0	655.3	651.9
27.5°	5741.0	4584.8	1989.9	784.5	661.0	632.4	615.3	594.7	569.5	558.1	553.5
30°	5598.0	4320.6	1533.6	662.2	594.7	566.1	539.8	504.3	467.7	448.3	447.2
32.5°	5485.9	4061.0	1164.2	585.5	535.2	499.8	462.0	417.4	375.1	353.4	352.2
35°	5431.0	3832.3	889.7	529.5	482.6	438.0	391.1	341.9	300.8	280.2	277.9
37.5°	5467.6	3639.0	694.2	482.6	438.0	386.5	331.6	280.2	243.6	225.3	224.1
40°	5601.4	3515.5	563.8	442.6	400.3	337.4	277.9	229.9	199.0	184.1	183.0
42.5°	5886.2	3469.7	481.5	409.4	363.7	291.6	231.0	189.8	161.3	151.0	148.7
45°	6361.9	3537.2	425.4	377.4	325.9	248.2	191.0	155.5	130.4	122.4	121.2
47.5°	6995.5	3714.5	385.4	346.5	291.6	209.3	159.0	125.8	106.4	98.4	97.2
50°	7812.0	3995.8	352.2	315.6	259.6	177.3	131.5	99.5	82.3	76.6	76.6
52.5°	8700.6	4330.9	322.5	287.0	227.6	147.5	106.4	76.6	65.2	58.3	58.3
55°	9434.8	4623.6	290.5	265.3	188.7	122.4	81.2	58.3	48.0	44.6	44.6
57.5°	10167.9	4935.9	253.9	227.6	151.0	99.5	61.8	43.5	35.5	33.2	33.2
60°	11118.2	5317.8	218.4	185.3	118.9	75.5	45.7	30.9	26.3	25.2	25.2
62.5°	12163.5	5542.0	186.4	148.7	92.6	56.0	33.2	20.6	19.4	19.4	18.3
65°	12802.8	5225.2	156.7	118.9	72.0	42.3	21.7	14.9	17.2	16.0	13.7
67.5°	11987.4	4090.7	128.1	92.6	56.0	32.0	13.7	10.3	18.3	14.9	11.4
70°	9925.5	2863.6	99.5	65.2	44.6	27.4	9.1	6.9	19.4	14.9	9.1
72.5°	7427.8	1916.7	78.9	43.5	33.2	24.0	8.0	3.4	17.2	12.6	8.0
75°	4058.7	771.9	62.9	27.4	20.6	17.2	5.7	2.3	11.4	9.1	5.7
77.5°	1068.1	203.6	45.7	18.3	11.4	6.9	3.4	1.1	5.7	4.6	2.3
80°	272.2	78.9	29.7	12.6	8.0	3.4	0.0	0.0	1.1	0.0	0.0
82.5°	145.2	33.2	18.3	9.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	109.8	21.7	10.3	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.3	6.9	3.4	0.0	0.0	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)