

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: P322533

Luminaire Tested: **GAN-SA9C-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40894 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

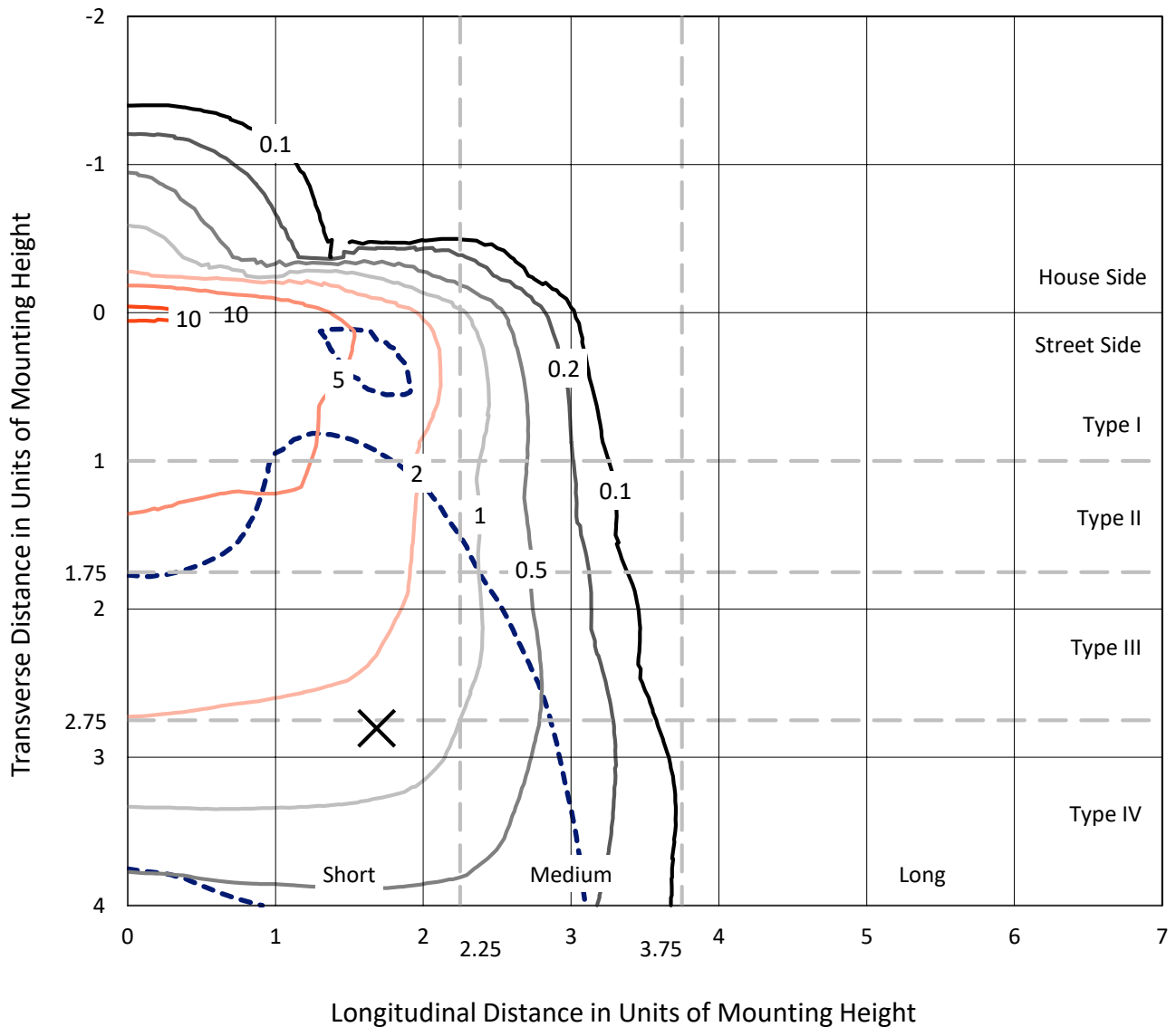
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

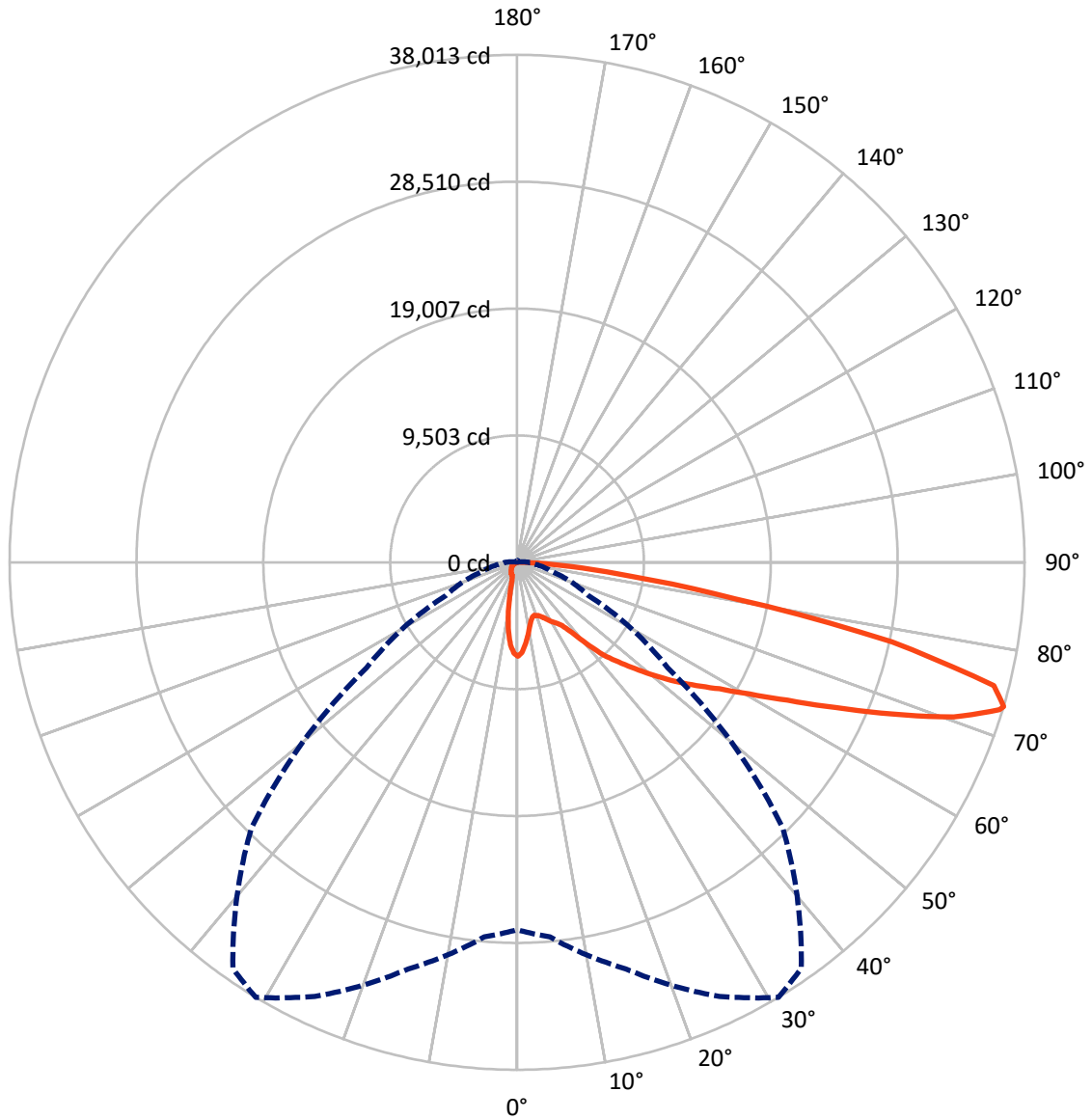
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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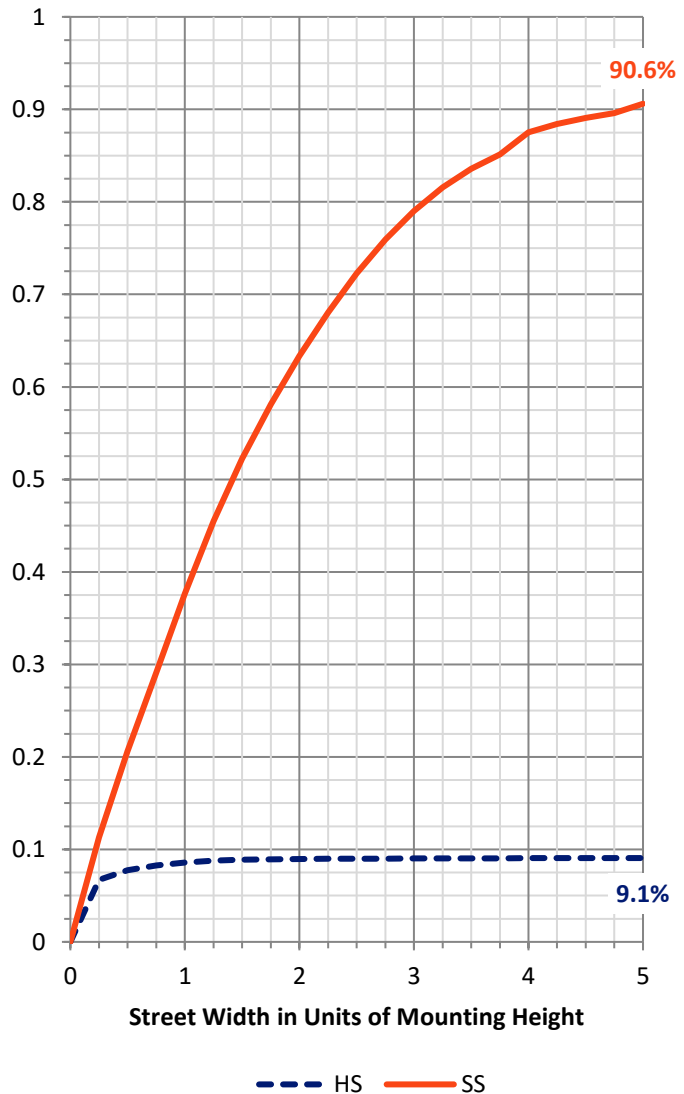
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3727.6	0.0	3727.6
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	37166.4	0.0	37166.4
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	40894.0	0.0	40894.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	583.4	1.4
10°-20°	1266.7	3.1
20°-30°	1897.8	4.6
30°-40°	3019.5	7.4
40°-50°	5391.9	13.2
50°-60°	8366.8	20.5
60°-70°	11122.5	27.2
70°-80°	8366.3	20.5
80°-90°	879.1	2.1
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°	40894.0	100.0
0°-180°	40894.0	100.0

**Coefficient of Utilization**

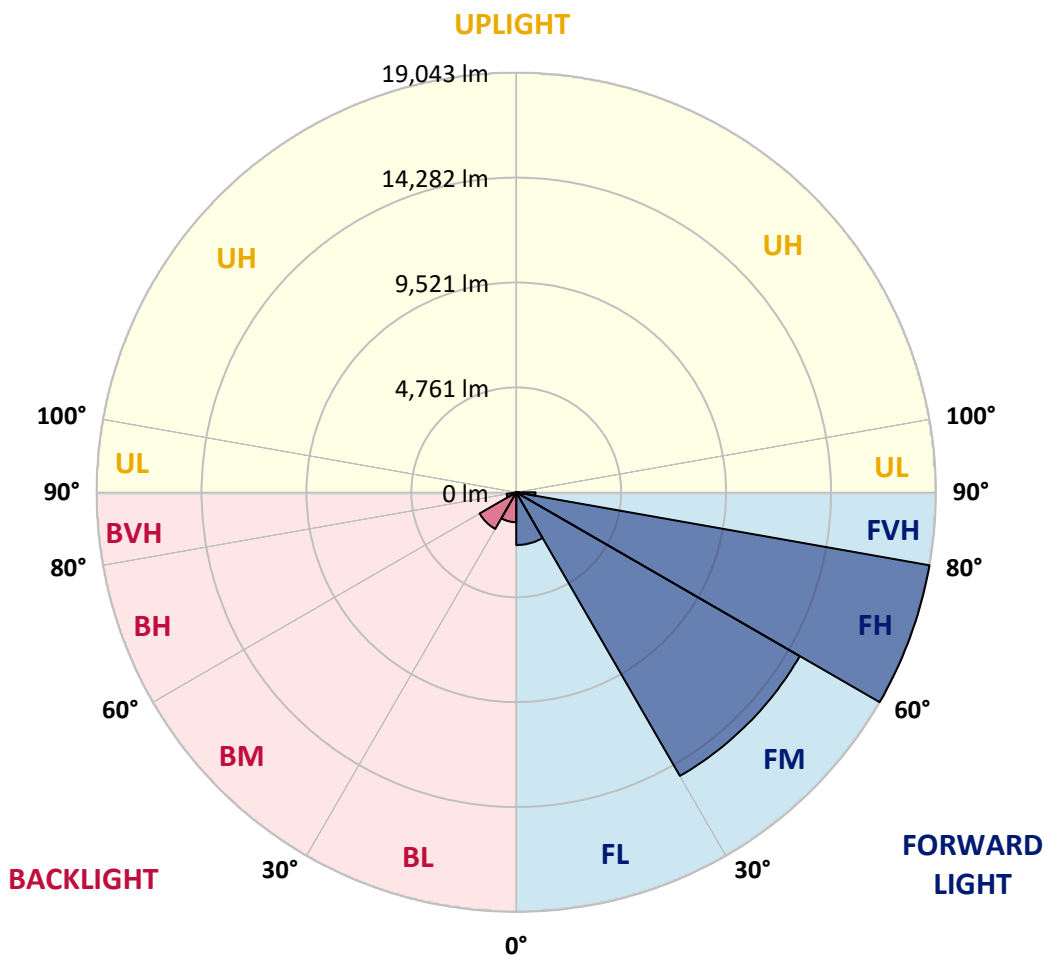


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2392.4	5.9			
FM (30°-60°)	14859.5	36.3			
FH (60°-80°)	19042.8	46.6			G5
FVH (80°-90°)	871.7	2.1			G5
BL (0°-30°)	1355.5	3.3	B3/2500		
BM (30°-60°)	1918.7	4.7	B2/2500		
BH (60°-80°)	446.0	1.1	B1/500		G1/500
BVH (80°-90°)	7.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9
2.5°	6667.7	6695.7	6725.7	6731.7	6781.8	6783.8	6855.8	6909.8	6963.9	7015.9	7033.9
5°	5983.3	6029.3	6083.4	6137.4	6243.5	6285.5	6461.6	6641.7	6813.8	6977.9	7057.9
7.5°	5252.9	5304.9	5381.0	5515.1	5633.1	5715.2	5993.3	6313.5	6633.7	6935.8	7109.9
10°	4586.5	4634.6	4714.6	4856.7	5038.8	5150.9	5525.1	5969.3	6439.6	6897.8	7188.0
12.5°	4162.3	4188.3	4232.3	4384.4	4548.5	4674.6	5114.8	5665.1	6279.5	6895.8	7314.1
15°	4084.3	4092.3	4056.2	4124.3	4252.4	4374.4	4820.7	5419.0	6157.4	6927.8	7478.1
17.5°	4208.3	4204.3	4084.3	4076.3	4178.3	4278.4	4676.6	5248.9	6071.4	7001.9	7690.3
20°	4396.4	4382.4	4174.3	4136.3	4244.4	4338.4	4666.6	5184.9	6039.3	7125.9	7948.4
22.5°	4646.6	4622.6	4296.4	4256.4	4372.4	4470.5	4790.7	5246.9	6067.4	7292.0	8248.6
25°	4956.7	4920.7	4506.5	4462.5	4580.5	4678.6	5012.8	5425.0	6151.4	7494.2	8628.8
27.5°	5306.9	5254.9	4842.7	4728.6	4862.7	4964.7	5308.9	5697.2	6283.5	7708.3	9095.0
30°	5637.1	5569.1	5196.9	5008.8	5172.9	5286.9	5629.1	6021.3	6495.6	8038.5	9733.4
32.5°	5969.3	5893.3	5513.1	5288.9	5437.0	5561.1	5959.3	6467.6	6893.8	8542.7	10581.9
35°	6733.7	6653.7	6187.4	5817.2	5815.2	5885.3	6421.6	7077.9	7420.1	9245.1	11594.4
37.5°	8020.4	7974.4	7530.2	6827.8	6639.7	6561.6	7051.9	7806.3	8176.5	10211.7	12737.1
40°	9429.2	9389.2	8890.9	8254.6	7968.4	7776.3	7956.4	8820.9	9245.1	11392.3	13903.7
42.5°	11020.1	10830.0	9941.5	9751.4	9495.3	9349.2	9187.1	10071.6	10557.8	12677.0	15060.3
45°	12464.9	12144.7	10992.1	10703.9	10645.9	10681.9	10772.0	11752.5	12034.7	14203.9	16213.0
47.5°	13325.4	13073.2	12188.8	11912.6	11896.6	12134.7	12815.1	13651.6	13505.5	15534.6	17227.5
50°	14143.8	13915.7	13181.3	13249.3	13323.4	13647.6	15134.4	15604.6	14848.2	16741.3	18158.1
52.5°	14806.2	14458.0	14073.8	14456.0	14820.2	15342.5	17527.7	17357.6	15800.8	17701.8	18954.5
55°	15188.4	15030.3	15216.4	15600.6	16285.0	17133.5	19787.0	18816.4	16497.1	18578.3	19484.8
57.5°	16589.2	16279.0	16649.2	16981.4	17873.9	19060.6	21722.0	19903.0	16999.4	19120.6	19606.9
60°	18284.1	18034.0	18252.1	18804.4	20009.1	21403.9	23531.0	20789.5	17261.6	19468.8	19290.7
62.5°	20981.6	20651.4	20515.4	21133.7	22730.6	24253.4	24903.8	21403.9	17203.5	19314.7	18206.1
65°	24595.6	24253.4	23645.1	24205.4	26236.5	27311.1	26438.6	21533.9	16803.3	18068.0	15464.6
67.5°	28297.7	28049.5	27529.2	28473.8	30306.8	30653.0	28061.5	21217.8	15514.6	14650.1	10926.1
70°	30743.0	30637.0	30975.2	33064.3	34699.2	34599.2	29550.4	19518.8	12092.7	9009.0	5405.0
72.5°	28980.0	29488.3	31985.7	35773.8	37770.9	36954.5	28785.9	14988.3	6911.8	3465.9	1562.9
73°	27519.2	28169.6	31531.5	35875.9	38013.1	37118.6	28143.6	13757.6	5891.3	2735.5	1184.7
75°	19144.6	19943.0	26104.5	33412.5	36880.4	35365.6	23459.0	8420.7	2729.5	1212.7	478.3
77.5°	9295.1	9885.5	14374.0	24141.4	28681.9	27631.3	14604.1	3137.7	1232.7	758.4	220.1
80°	3469.9	3858.1	6239.5	12286.8	16575.2	17009.4	6423.6	1186.7	820.5	610.3	112.1
82.5°	908.5	1012.6	2301.3	5479.0	8494.7	8890.9	2025.1	598.3	600.3	502.3	68.0
85°	290.2	332.2	718.4	2459.4	4002.2	3513.9	528.3	290.2	436.2	374.2	38.0
87.5°	36.0	46.0	228.1	578.3	882.5	490.3	82.0	86.0	186.1	208.1	22.0
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°	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9	7035.9
2.5°	7051.9	7041.9	7043.9	6991.9	6957.9	6889.8	6819.8	6787.8	6753.7	6739.7	6753.7
5°	7087.9	7069.9	7017.9	6857.8	6687.7	6467.6	6261.5	6105.4	5909.3	5855.2	5911.3
7.5°	7144.0	7107.9	6955.9	6629.7	6251.5	5831.2	5359.0	5014.8	4732.6	4550.5	4616.6
10°	7226.0	7158.0	6851.8	6297.5	5621.1	4876.7	4206.3	3684.0	3313.8	3161.8	3155.7
12.5°	7364.1	7236.0	6723.7	5865.2	4850.7	3858.1	2979.7	2413.3	2113.2	1919.1	1915.1
15°	7516.2	7328.1	6561.6	5347.0	3954.2	2763.5	1919.1	1488.8	1294.7	1232.7	1224.7
17.5°	7702.3	7434.1	6351.5	4708.6	3015.7	1831.0	1252.7	1128.6	1120.6	1114.6	1114.6
20°	7936.4	7560.2	6081.4	3978.2	2139.2	1222.7	1064.6	1072.6	1076.6	1068.6	1070.6
22.5°	8208.5	7688.3	5759.2	3193.8	1446.8	1022.6	1018.6	1028.6	1032.6	1028.6	1030.6
25°	8524.7	7836.3	5367.0	2371.3	1044.6	970.5	980.5	994.6	1004.6	1004.6	1004.6
27.5°	8916.9	8016.4	4894.7	1654.9	902.5	916.5	944.5	970.5	984.5	988.5	988.5
30°	9427.2	8240.6	4328.4	1134.6	820.5	844.5	896.5	946.5	972.5	976.5	978.5
32.5°	10071.6	8492.7	3672.0	838.5	750.4	768.4	824.5	908.5	958.5	966.5	966.5
35°	10810.0	8784.9	2965.6	730.4	700.4	706.4	750.4	846.5	934.5	956.5	958.5
37.5°	11618.4	9073.0	2255.2	682.4	658.4	658.4	690.4	772.4	876.5	944.5	952.5
40°	12372.9	9247.1	1580.9	644.4	620.3	620.3	648.4	708.4	806.4	908.5	930.5
42.5°	13069.2	9307.2	1100.6	608.3	584.3	590.3	614.3	662.4	736.4	838.5	858.5
45°	13785.6	9297.1	802.4	566.3	548.3	566.3	584.3	620.3	674.4	732.4	736.4
47.5°	14325.9	9213.1	636.4	526.3	514.3	538.3	554.3	578.3	608.3	604.3	604.3
50°	14832.2	9009.0	512.3	472.3	480.3	508.3	516.3	524.3	526.3	488.3	484.3
52.5°	15216.4	8690.8	410.2	414.2	446.2	474.3	466.3	454.3	434.2	388.2	380.2
55°	15344.5	8078.5	322.2	342.2	396.2	432.2	402.2	376.2	338.2	300.2	292.2
57.5°	15112.4	7288.0	262.1	266.1	334.2	364.2	330.2	300.2	258.1	226.1	220.1
60°	14620.1	6409.5	216.1	200.1	258.1	284.2	262.1	232.1	194.1	170.1	168.1
62.5°	13643.6	5473.0	178.1	156.1	196.1	218.1	204.1	182.1	150.1	134.1	132.1
65°	11590.4	4378.4	144.1	126.1	152.1	170.1	158.1	142.1	118.1	106.1	104.1
67.5°	8090.5	2959.6	118.1	104.1	120.1	134.1	124.1	116.1	94.1	92.1	94.1
70°	3902.2	1426.8	98.1	84.0	94.1	104.1	100.1	94.1	90.0	104.1	120.1
72.5°	1118.6	478.3	78.0	70.0	76.0	82.0	86.0	84.0	98.1	126.1	146.1
73°	860.5	386.2	74.0	66.0	72.0	80.0	84.0	82.0	100.1	128.1	146.1
75°	368.2	186.1	56.0	54.0	60.0	70.0	74.0	74.0	100.1	130.1	140.1
77.5°	166.1	100.1	36.0	42.0	52.0	56.0	62.0	62.0	80.0	100.1	100.1
80°	94.1	54.0	28.0	32.0	38.0	38.0	38.0	34.0	36.0	40.0	44.0
82.5°	60.0	36.0	22.0	26.0	24.0	20.0	16.0	16.0	14.0	16.0	20.0
85°	34.0	20.0	20.0	16.0	10.0	8.0	10.0	8.0	2.0	0.0	2.0
87.5°	20.0	12.0	6.0	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)