

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: P319990

Luminaire Tested: **GAN-SA6A-740-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6A-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26486 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

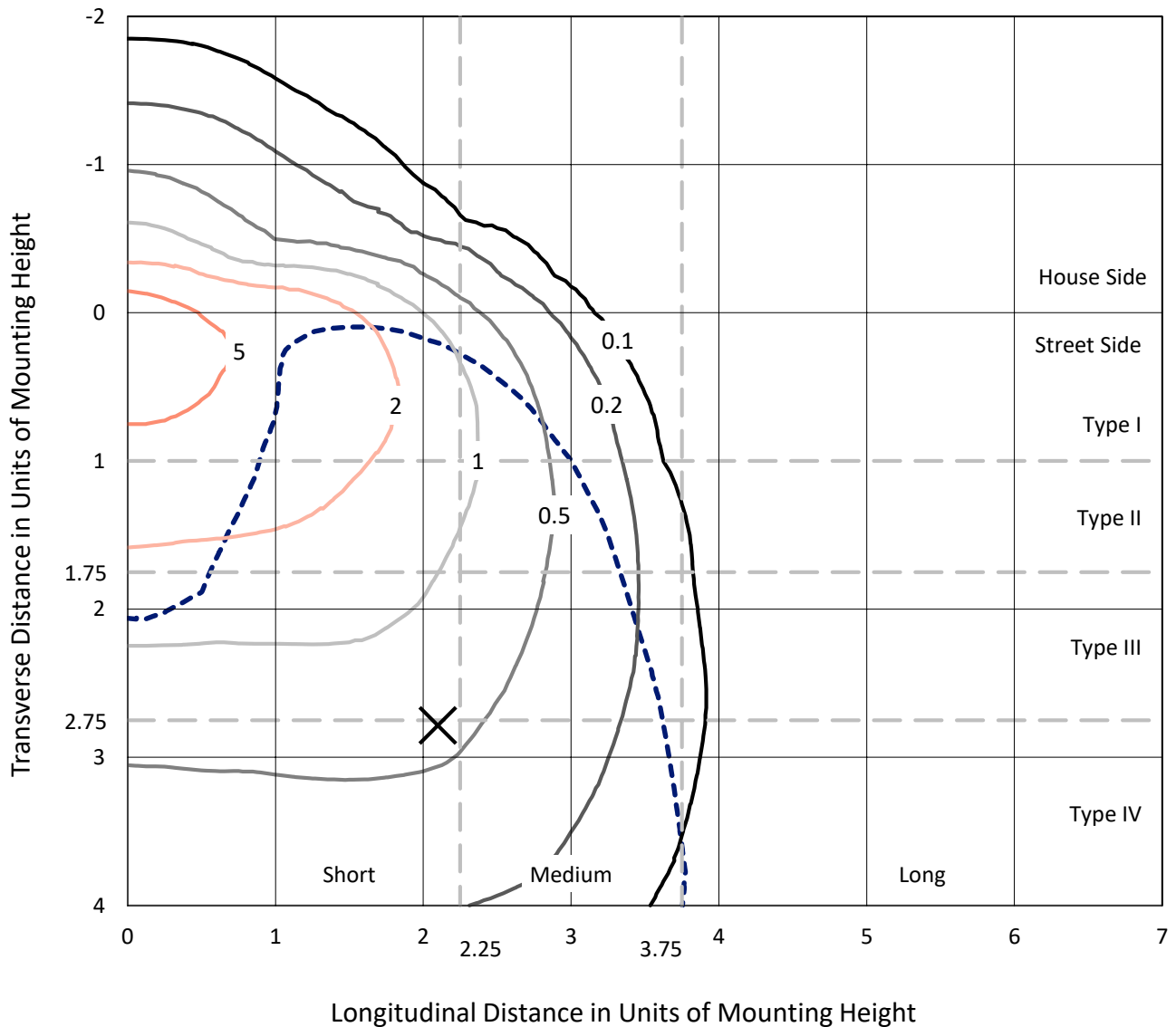
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

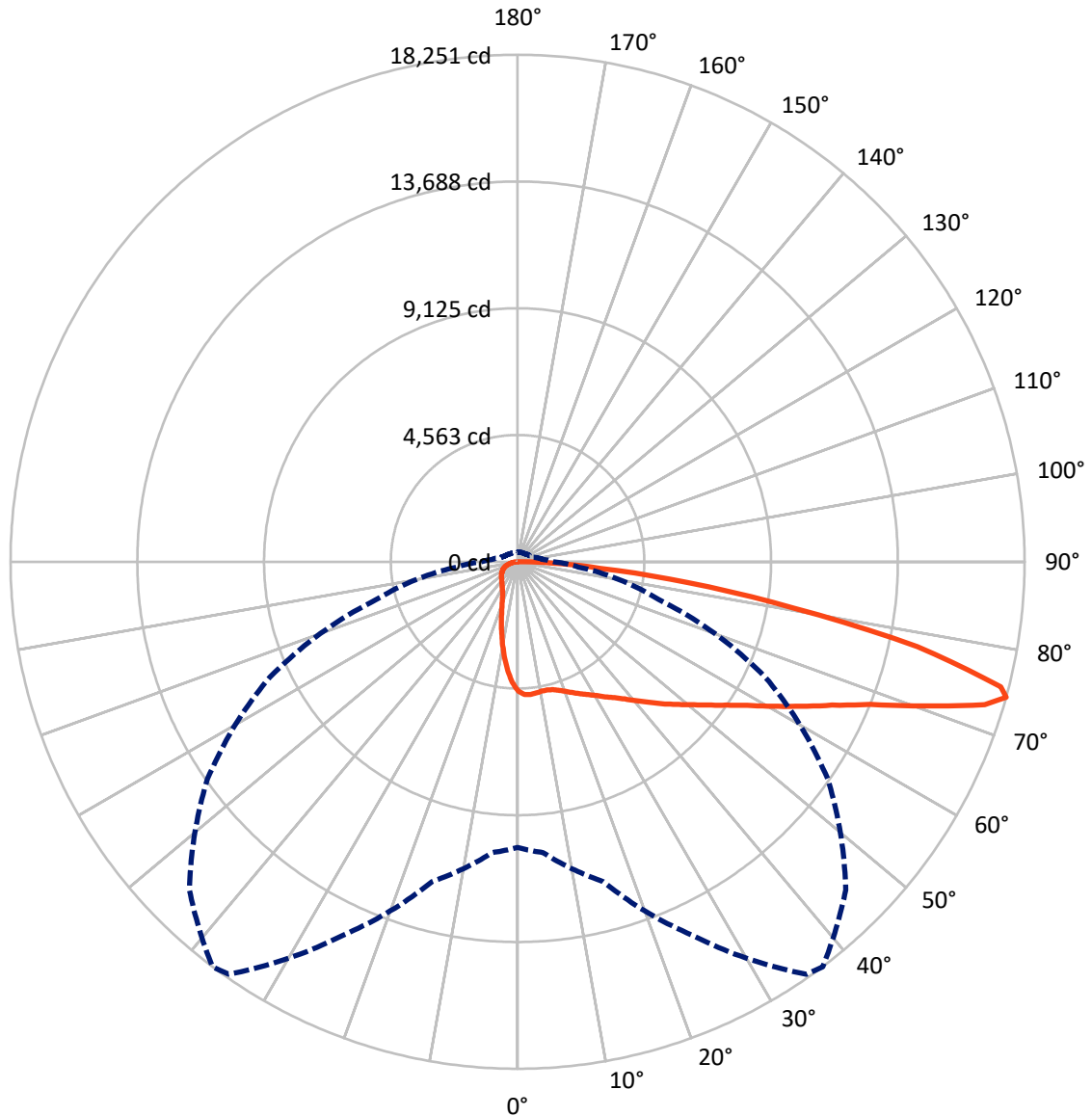
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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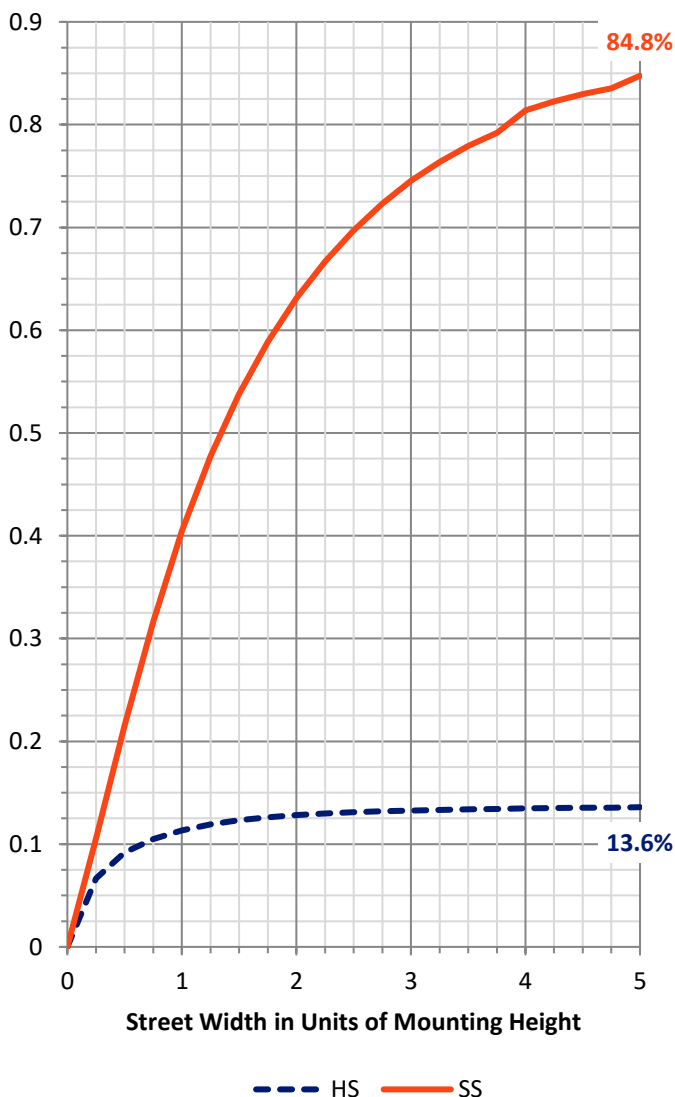
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3644.3	0.0	3644.3
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	22841.7	0.0	22841.7
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	26486.0	0.0	26486.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.0	1.6
10°-20°	1053.4	4.0
20°-30°	1623.1	6.1
30°-40°	2360.2	8.9
40°-50°	3473.8	13.1
50°-60°	4878.3	18.4
60°-70°	6174.5	23.3
70°-80°	5436.8	20.5
80°-90°	1075.0	4.1
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°	26486.0	100.0
0°-180°	26486.0	100.0

**Coefficient of Utilization**



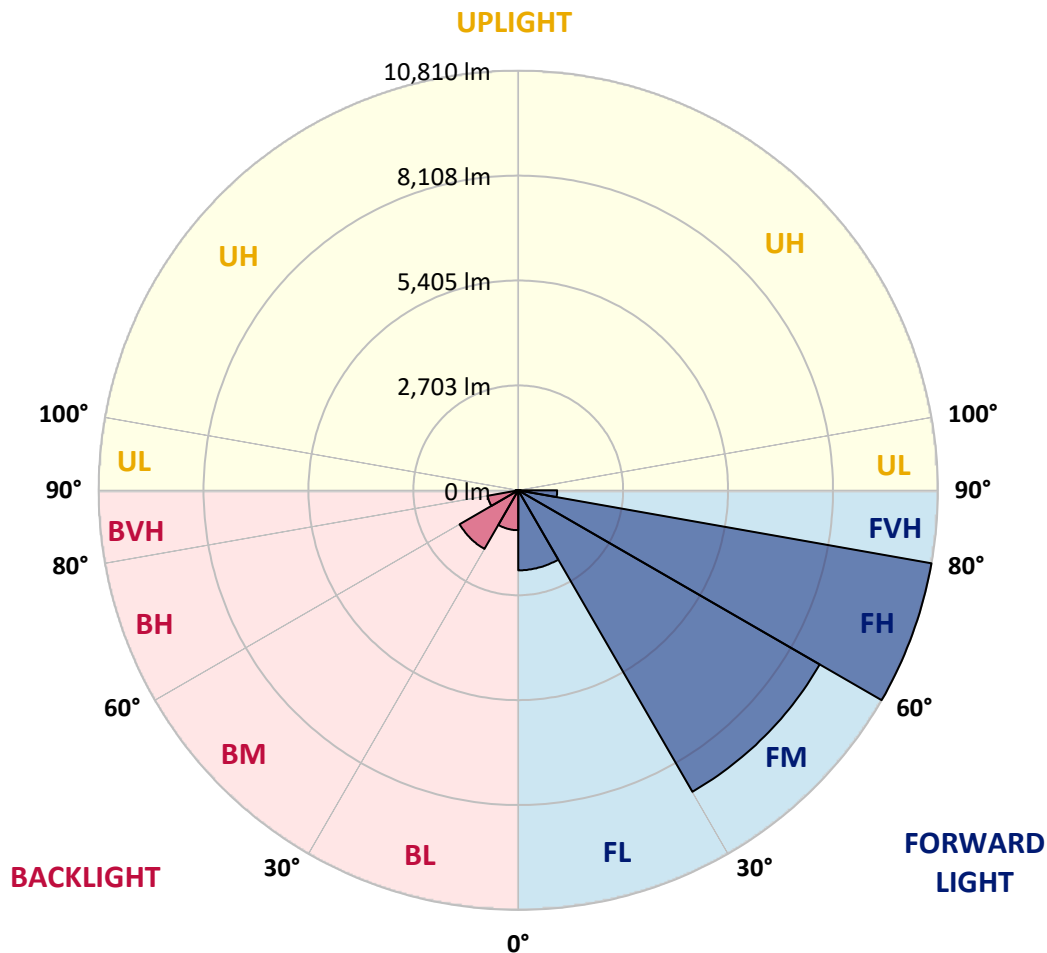
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.9	7.8			
FM (30°-60°)	8968.4	33.9			
FH (60°-80°)	10810.2	40.8			G4/12000
FVH (80°-90°)	1002.2	3.8			G5
BL (0°-30°)	1026.5	3.9	B3/2500		
BM (30°-60°)	1743.9	6.6	B2/2500		
BH (60°-80°)	801.1	3.0	B2/1000		G2/1000
BVH (80°-90°)	72.8	0.3			G1/100
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°	35°	37°	45°	55°	65°	75°	85°
0°	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7
2.5°	4826.3	4827.2	4826.3	4818.8	4801.1	4786.2	4774.0	4756.3	4717.1	4687.3	4642.5
5°	4872.0	4866.4	4862.7	4848.7	4820.7	4803.9	4780.6	4747.0	4682.6	4622.9	4550.1
7.5°	4850.5	4844.0	4835.6	4818.8	4787.1	4773.1	4740.4	4696.6	4619.1	4540.8	4436.3
10°	4784.3	4782.4	4778.7	4775.0	4747.9	4736.7	4706.8	4660.2	4583.7	4488.5	4366.3
12.5°	4710.6	4715.2	4730.2	4749.8	4737.6	4732.0	4713.4	4681.7	4603.3	4500.7	4353.3
15°	4663.9	4677.0	4717.1	4768.4	4778.7	4776.8	4772.2	4751.6	4668.6	4554.8	4383.1
17.5°	4648.1	4669.5	4746.0	4830.9	4860.8	4867.3	4869.2	4833.7	4741.4	4621.0	4413.9
20°	4677.0	4704.0	4816.0	4932.6	4980.2	4983.9	4975.5	4914.0	4810.4	4677.9	4430.7
22.5°	4764.7	4788.9	4928.9	5060.4	5114.6	5120.2	5095.0	5001.7	4883.2	4745.1	4454.0
25°	4933.6	4963.4	5103.4	5234.9	5262.9	5263.8	5227.4	5111.8	4978.3	4839.3	4504.4
27.5°	5153.7	5183.6	5309.5	5438.3	5423.4	5415.0	5365.5	5249.8	5102.4	4969.0	4594.0
30°	5399.1	5431.8	5551.2	5642.6	5607.2	5590.4	5550.3	5401.0	5275.0	5146.3	4731.1
32.5°	5652.9	5682.7	5787.2	5849.7	5805.0	5797.5	5736.9	5600.6	5499.9	5416.8	4953.2
35°	5913.2	5934.6	6037.3	6072.7	6013.0	6011.1	5994.4	5869.3	5805.9	5845.1	5276.0
37.5°	6179.1	6184.7	6272.4	6274.2	6256.5	6264.0	6281.7	6203.3	6221.1	6343.3	5695.8
40°	6416.1	6431.0	6494.4	6514.0	6544.8	6570.9	6659.6	6608.2	6745.4	6961.8	6218.3
42.5°	6591.5	6620.4	6722.1	6772.5	6872.3	6913.3	7038.3	7085.9	7362.1	7686.8	6839.6
45°	6739.8	6784.6	6947.8	7051.4	7220.3	7292.1	7471.2	7630.8	8059.0	8473.3	7493.6
47.5°	6900.3	6957.2	7161.5	7359.3	7588.8	7670.0	7995.6	8234.4	8802.6	9264.4	8110.3
50°	7136.3	7180.2	7379.8	7690.5	7976.9	8081.4	8532.0	8874.4	9558.3	10018.3	8644.9
52.5°	7465.6	7448.9	7617.7	8053.4	8437.8	8566.6	9104.9	9555.5	10324.3	10700.3	9096.5
55°	7796.9	7768.9	7887.4	8433.1	8975.2	9110.5	9735.6	10239.4	11052.9	11314.2	9442.6
57.5°	8165.4	8112.2	8212.0	8861.4	9587.2	9748.6	10441.8	10966.2	11769.5	11810.5	9662.8
60°	8545.1	8473.3	8585.2	9392.2	10364.4	10554.7	11268.4	11675.2	12444.9	12208.0	9733.7
62.5°	8877.2	8826.9	8999.5	9984.7	11240.5	11449.4	12080.1	12429.1	13111.1	12373.1	9478.1
65°	9167.4	9175.8	9474.3	10650.8	12217.3	12440.3	13011.2	13358.3	13635.4	12275.1	8880.0
67.5°	9513.5	9561.1	10070.5	11527.8	13446.9	13691.4	14365.9	14371.5	13928.4	11700.4	7702.6
70°	10018.3	10116.2	10890.6	12744.4	15195.3	15531.2	16051.8	14966.8	13516.9	10142.3	6060.6
72.5°	10466.1	10649.0	11762.9	14136.4	17326.2	17580.9	17038.0	14623.4	11797.4	7600.9	3775.7
74°	10284.2	10510.9	11921.5	14822.1	18128.6	18250.8	16704.9	13621.4	9836.3	5263.8	2194.4
75°	9892.3	10138.6	11690.2	14815.6	18026.9	17958.8	15900.7	12476.6	8101.0	3590.1	1460.1
77.5°	7983.4	8243.7	9850.3	12697.8	14781.1	14716.7	12214.5	8369.7	3548.1	1177.4	741.7
80°	4641.5	4840.3	6114.7	8063.7	9966.9	10083.6	8032.9	4141.5	1395.7	661.5	502.9
82.5°	2061.9	2199.0	2953.8	4116.3	6014.9	6165.1	4206.8	2170.1	862.1	402.1	302.3
85°	1352.8	1454.5	1793.2	1960.2	2864.2	2966.9	2059.1	1689.6	569.1	221.1	222.0
87.5°	973.1	1071.1	1332.3	1163.4	1314.6	1244.6	1120.5	1563.7	228.6	126.0	74.6
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°	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7
2.5°	4622.9	4608.0	4574.4	4510.9	4475.5	4445.6	4396.2	4367.2	4354.2	4353.3	4358.8
5°	4508.1	4473.6	4386.8	4280.5	4195.6	4118.1	4022.0	3964.2	3923.2	3898.9	3905.4
7.5°	4374.7	4320.6	4184.4	4014.6	3878.4	3728.2	3579.8	3491.2	3422.1	3370.8	3380.2
10°	4283.3	4208.6	4009.9	3765.5	3538.8	3320.5	3116.1	2993.9	2896.9	2822.2	2827.8
12.5°	4252.5	4151.7	3876.5	3550.0	3231.8	2933.3	2666.4	2478.9	2379.1	2294.2	2300.7
15°	4257.2	4121.9	3764.5	3355.9	2955.7	2579.7	2255.9	2036.7	1901.4	1842.6	1843.6
17.5°	4260.9	4087.4	3647.0	3147.9	2682.3	2249.4	1897.7	1675.6	1547.8	1493.7	1494.6
20°	4248.8	4031.4	3501.4	2909.0	2396.8	1946.2	1605.6	1417.2	1320.2	1278.2	1278.2
22.5°	4232.9	3965.1	3337.2	2669.2	2115.0	1683.1	1396.7	1253.0	1197.0	1169.0	1168.1
25°	4240.4	3915.7	3169.3	2422.9	1855.7	1473.2	1257.6	1162.5	1125.2	1107.4	1106.5
27.5°	4280.5	3892.4	3014.4	2177.6	1629.0	1315.5	1164.4	1097.2	1072.9	1061.7	1061.7
30°	4353.3	3892.4	2853.0	1968.6	1440.5	1198.9	1092.5	1046.8	1030.0	1022.5	1022.5
32.5°	4480.1	3913.8	2697.2	1761.5	1290.3	1107.4	1032.8	1002.0	989.0	985.2	985.2
35°	4698.5	3986.6	2545.2	1565.5	1169.0	1032.8	975.9	958.2	948.8	947.9	950.7
37.5°	5005.4	4134.9	2402.4	1420.9	1083.2	972.2	928.3	914.3	908.7	913.4	917.1
40°	5391.7	4336.5	2272.7	1290.3	1017.9	923.6	884.5	875.1	872.3	878.9	884.5
42.5°	5858.1	4608.9	2166.4	1196.1	967.5	882.6	847.1	835.9	833.1	840.6	848.1
45°	6362.9	4901.8	2091.7	1126.1	928.3	851.8	814.5	802.4	796.8	800.5	808.9
47.5°	6821.9	5178.9	2061.9	1076.7	891.0	825.7	785.6	770.6	761.3	759.4	766.0
50°	7209.1	5385.1	2075.9	1046.8	861.1	796.8	757.6	740.8	726.8	718.4	723.1
52.5°	7490.8	5514.8	2088.9	1033.7	837.8	765.0	726.8	710.9	692.3	678.3	678.3
55°	7695.2	5544.7	2060.0	1023.5	820.1	730.5	692.3	677.3	658.7	642.8	641.0
57.5°	7775.4	5460.7	1952.7	1008.5	808.0	697.9	655.9	644.7	628.8	610.2	609.2
60°	7667.2	5201.3	1745.6	976.8	792.1	670.8	619.5	612.0	604.6	586.8	585.9
62.5°	7232.4	4632.2	1477.8	912.4	760.4	641.9	585.9	589.6	590.6	578.4	576.6
65°	6444.0	3850.4	1216.6	828.5	712.8	607.4	551.4	569.1	579.4	577.5	574.7
67.5°	5298.4	2996.7	1030.9	739.8	650.3	559.8	514.1	534.6	543.0	549.5	547.7
70°	3932.5	2113.2	852.7	646.6	574.7	503.8	465.6	475.8	470.2	477.7	480.5
72.5°	2192.5	1267.9	695.1	553.3	496.3	438.5	411.4	409.6	397.4	397.4	397.4
74°	1315.5	930.2	611.1	495.4	448.8	395.6	372.3	363.9	352.7	353.6	352.7
75°	1058.0	799.6	560.7	457.2	415.2	370.4	347.1	335.9	327.5	327.5	326.5
77.5°	668.0	607.4	451.6	363.9	332.1	305.1	289.2	274.3	274.3	273.4	272.4
80°	504.7	483.3	351.7	275.2	254.7	234.2	223.9	217.4	217.4	220.2	219.2
82.5°	346.1	363.9	247.2	192.2	181.9	167.0	165.1	166.1	163.3	159.5	158.6
85°	252.8	273.4	167.0	121.3	111.0	101.7	109.2	112.9	108.2	99.8	96.1
87.5°	97.0	179.1	89.6	50.4	46.6	40.1	46.6	48.5	52.2	41.1	42.0
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)