

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: P322581

Luminaire Tested: **GAN-SA7D-740-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322581  
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-SA7D-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA 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: 38974 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

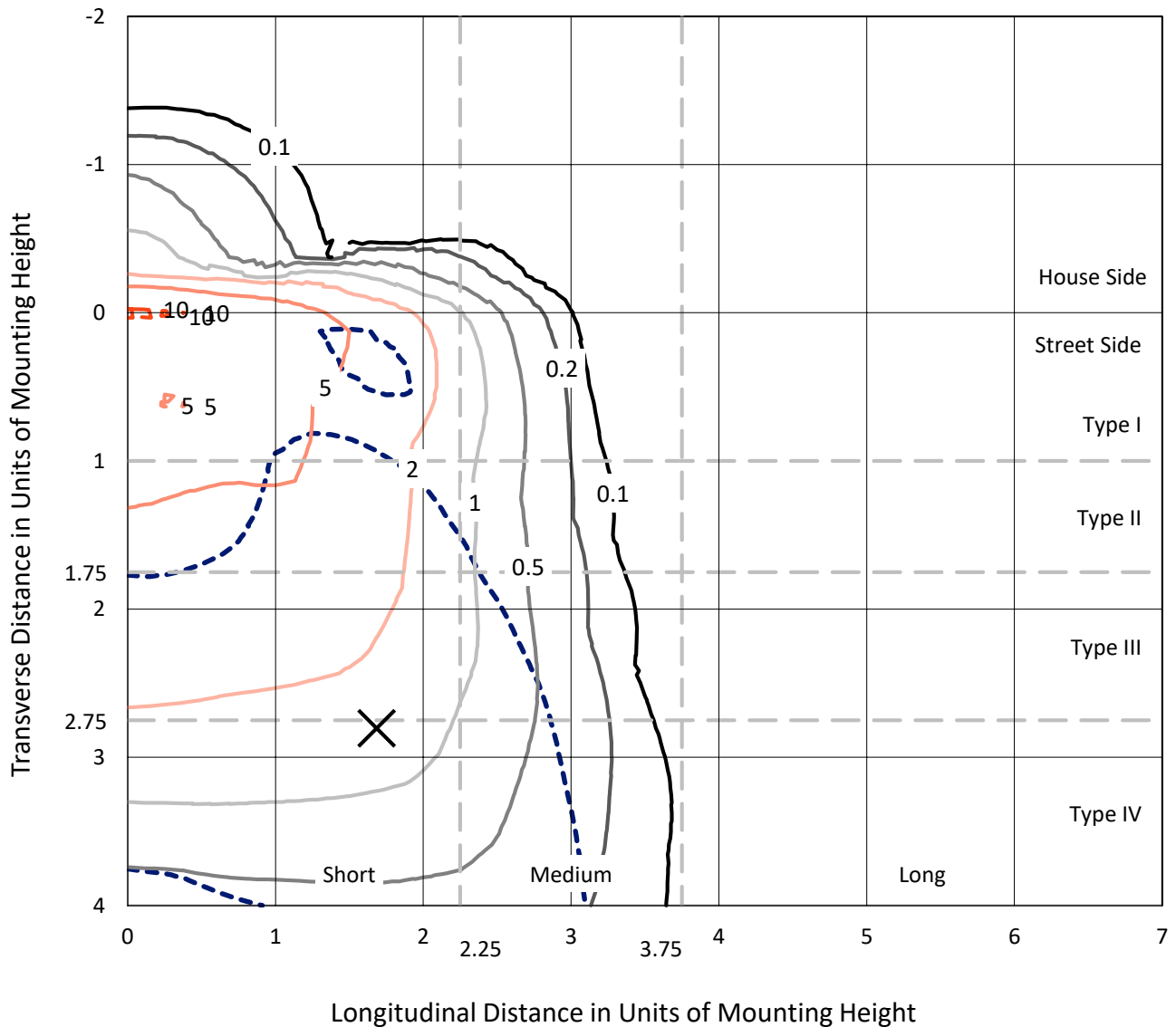
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

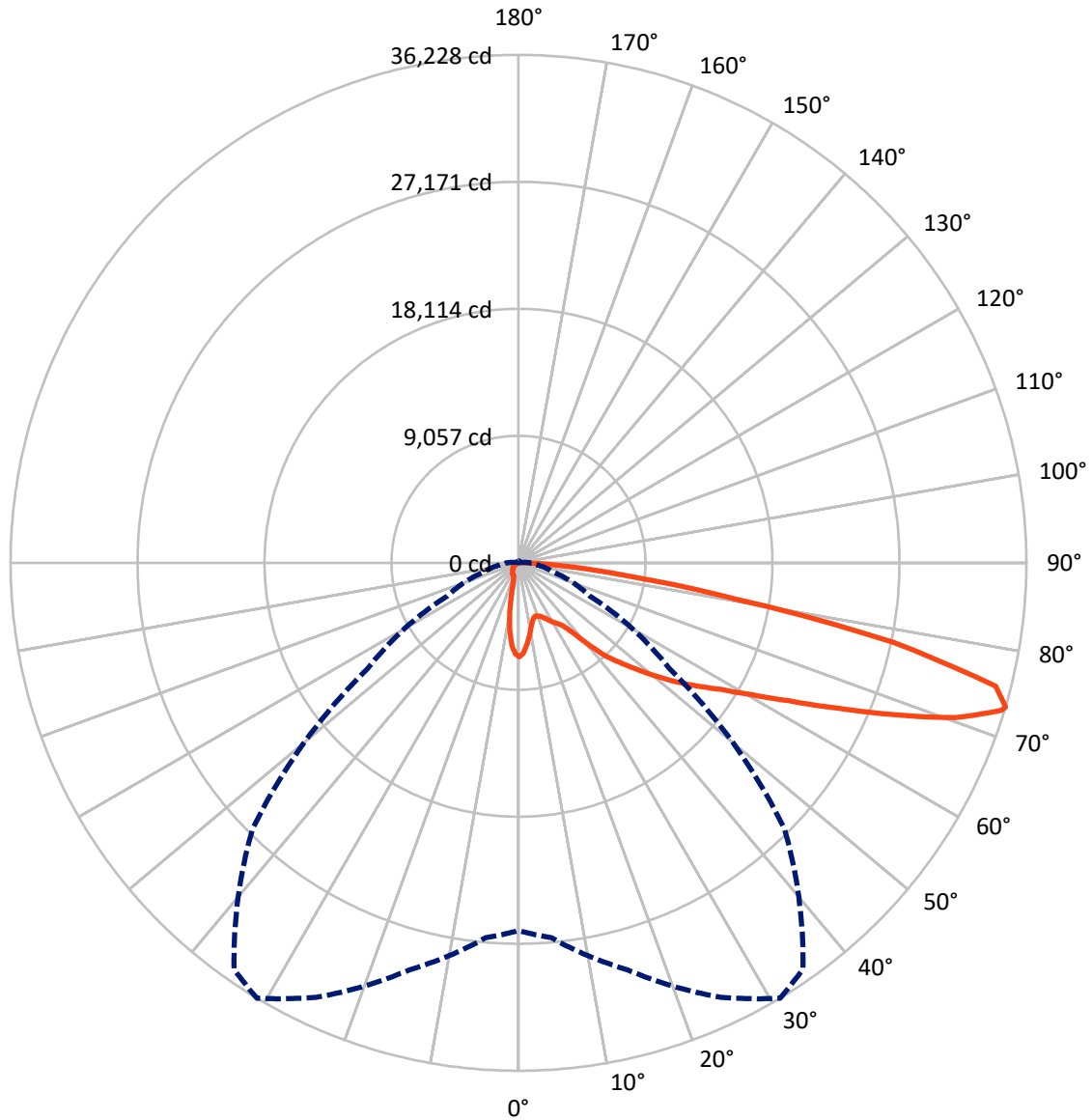
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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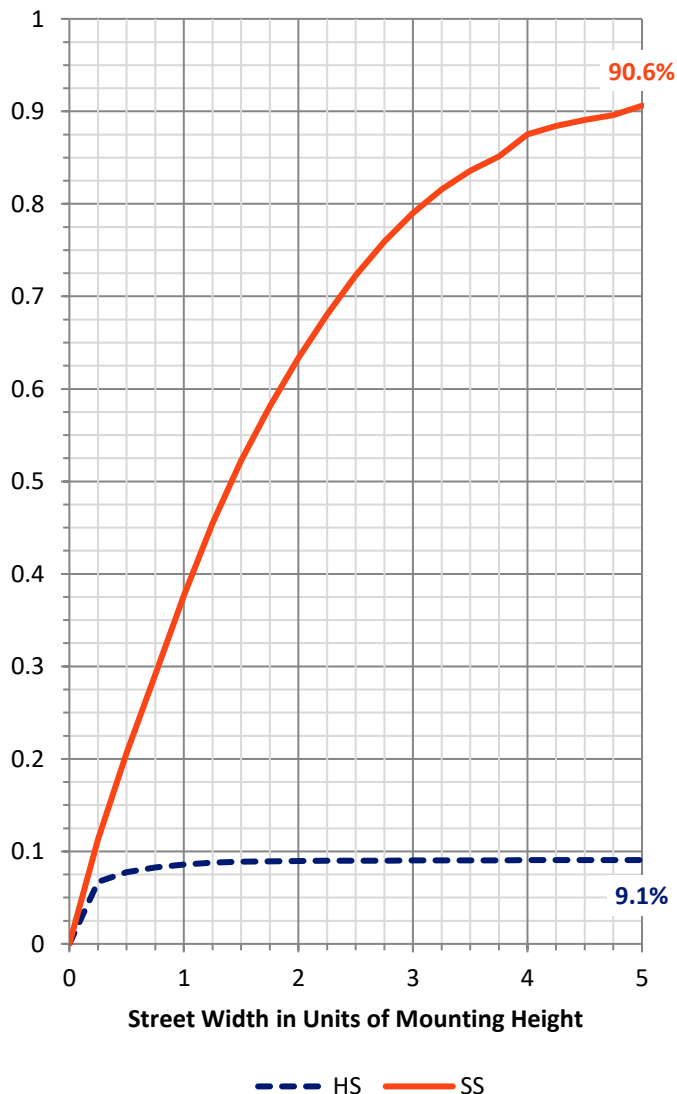
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3552.6	0.0	3552.6
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	35421.4	0.0	35421.4
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	38974.0	0.0	38974.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.0	1.4
10°-20°	1207.2	3.1
20°-30°	1808.7	4.6
30°-40°	2877.7	7.4
40°-50°	5138.8	13.2
50°-60°	7973.9	20.5
60°-70°	10600.3	27.2
70°-80°	7973.5	20.5
80°-90°	837.8	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°	38974.0	100.0
0°-180°	38974.0	100.0

**Coefficient of Utilization**



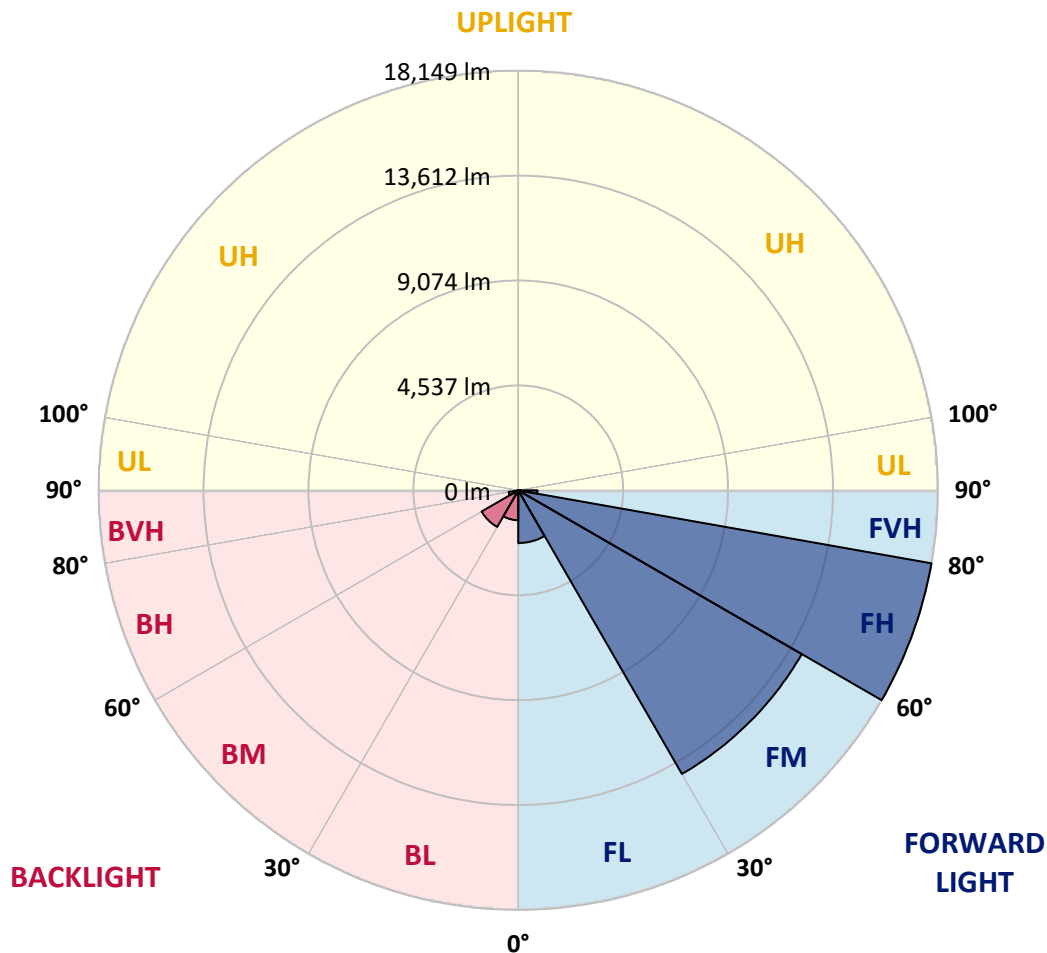
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2280.0	5.9			
FM (30°-60°)	14161.8	36.3			
FH (60°-80°)	18148.7	46.6			G5
FVH (80°-90°)	830.8	2.1			G5
BL (0°-30°)	1291.9	3.3	B3/2500		
BM (30°-60°)	1828.6	4.7	B2/2500		
BH (60°-80°)	425.1	1.1	B1/500		G1/500
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6
2.5°	6354.6	6381.3	6409.9	6415.7	6463.3	6465.3	6533.9	6585.4	6636.9	6686.5	6703.6
5°	5702.4	5746.3	5797.8	5849.2	5950.3	5990.4	6158.2	6329.8	6493.9	6650.2	6726.5
7.5°	5006.3	5055.9	5128.3	5256.1	5368.6	5446.8	5711.9	6017.1	6322.2	6610.2	6776.1
10°	4371.2	4417.0	4493.3	4628.7	4802.2	4909.0	5265.7	5689.0	6137.2	6574.0	6850.5
12.5°	3966.9	3991.7	4033.6	4178.6	4335.0	4455.1	4874.7	5399.2	5984.7	6572.1	6970.7
15°	3892.5	3900.1	3865.8	3930.6	4052.7	4169.0	4594.3	5164.6	5868.3	6602.6	7127.0
17.5°	4010.7	4006.9	3892.5	3884.9	3982.1	4077.5	4457.0	5002.5	5786.3	6673.1	7329.2
20°	4190.0	4176.7	3978.3	3942.1	4045.1	4134.7	4447.5	4941.4	5755.8	6791.4	7575.2
22.5°	4428.4	4405.5	4094.7	4056.5	4167.1	4260.6	4565.7	5000.6	5782.5	6949.7	7861.3
25°	4724.0	4689.7	4294.9	4253.0	4365.5	4458.9	4777.4	5170.3	5862.6	7142.3	8223.7
27.5°	5057.8	5008.2	4615.3	4506.6	4634.4	4731.7	5059.7	5429.7	5988.5	7346.4	8668.0
30°	5372.5	5307.6	4952.9	4773.6	4930.0	5038.7	5364.8	5738.6	6190.6	7661.0	9276.4
32.5°	5689.0	5616.6	5254.2	5040.6	5181.7	5300.0	5679.5	6163.9	6570.1	8141.6	10085.0
35°	6417.6	6341.3	5896.9	5544.1	5542.2	5608.9	6120.1	6745.6	7071.7	8811.1	11050.1
37.5°	7643.9	7600.0	7176.6	6507.2	6327.9	6253.6	6720.8	7439.8	7792.6	9732.2	12139.0
40°	8986.5	8948.4	8473.5	7867.0	7594.3	7411.2	7582.8	8406.7	8811.1	10857.4	13250.9
42.5°	10502.7	10321.5	9474.7	9293.6	9049.4	8910.2	8755.7	9598.7	10062.1	12081.8	14353.2
45°	11879.7	11574.5	10476.0	10201.4	10146.1	10180.4	10266.2	11200.7	11469.6	13537.0	15451.8
47.5°	12699.7	12459.4	11616.5	11353.3	11338.0	11565.0	12213.4	13010.6	12871.4	14805.2	16418.7
50°	13479.8	13262.4	12562.4	12627.3	12697.8	13006.8	14423.8	14872.0	14151.1	15955.3	17305.5
52.5°	14111.0	13779.2	13413.0	13777.3	14124.4	14622.2	16704.8	16542.7	15058.9	16870.7	18064.6
55°	14475.3	14324.6	14502.0	14868.2	15520.4	16329.1	18857.9	17933.0	15722.6	17706.0	18570.0
57.5°	15810.3	15514.7	15867.5	16184.1	17034.7	18165.7	20702.2	18968.6	16201.3	18222.9	18686.3
60°	17425.7	17187.3	17395.2	17921.5	19069.6	20398.9	22426.2	19813.4	16451.1	18554.7	18385.0
62.5°	19996.5	19681.8	19552.2	20141.5	21663.4	23114.7	23734.5	20398.9	16395.8	18407.9	17351.3
65°	23440.8	23114.7	22534.9	23068.9	25004.7	26028.8	25197.3	20522.9	16014.4	17219.7	14738.5
67.5°	26969.1	26732.6	26236.7	27136.9	28883.9	29213.8	26744.0	20221.6	14786.2	13962.3	10413.1
70°	29299.6	29198.5	29520.9	31511.9	33070.1	32974.7	28163.0	18602.4	11524.9	8586.0	5151.2
72.5°	27619.4	28103.8	30484.0	34094.2	35997.5	35219.4	27434.4	14284.6	6587.3	3303.2	1489.5
73°	26227.2	26847.0	30051.0	34191.5	36228.3	35375.8	26822.2	13111.7	5614.7	2607.1	1129.0
75°	18245.8	19006.7	24878.8	31843.8	35148.9	33705.1	22357.6	8025.3	2601.4	1155.7	455.8
77.5°	8858.7	9421.3	13699.1	23007.9	27335.3	26334.0	13918.4	2990.4	1174.8	722.8	209.8
80°	3307.0	3677.0	5946.5	11709.9	15797.0	16210.8	6122.0	1130.9	781.9	581.7	106.8
82.5°	865.8	965.0	2193.2	5221.8	8095.9	8473.5	1930.0	570.2	572.1	478.7	64.8
85°	276.5	316.6	684.7	2343.9	3814.3	3349.0	503.5	276.5	415.8	356.6	36.2
87.5°	34.3	43.9	217.4	551.2	841.1	467.3	78.2	82.0	177.4	198.3	21.0
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°	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6	6705.6
2.5°	6720.8	6711.3	6713.2	6663.6	6631.2	6566.3	6499.6	6469.1	6436.6	6423.3	6436.6
5°	6755.1	6738.0	6688.4	6535.8	6373.7	6163.9	5967.5	5818.7	5631.8	5580.3	5633.7
7.5°	6808.5	6774.2	6629.3	6318.4	5958.0	5557.4	5107.4	4779.3	4510.4	4336.9	4399.8
10°	6886.7	6821.9	6530.1	6001.8	5357.2	4647.7	4008.8	3511.1	3158.2	3013.3	3007.6
12.5°	7018.3	6896.3	6408.0	5589.9	4622.9	3677.0	2839.8	2300.0	2014.0	1829.0	1825.1
15°	7163.3	6984.0	6253.6	5095.9	3768.5	2633.8	1829.0	1418.9	1233.9	1174.8	1167.2
17.5°	7340.6	7085.1	6053.3	4487.5	2874.1	1745.0	1193.9	1075.6	1068.0	1062.3	1062.3
20°	7563.8	7205.2	5795.8	3791.4	2038.7	1165.3	1014.6	1022.2	1026.0	1018.4	1020.3
22.5°	7823.1	7327.3	5488.8	3043.8	1378.9	974.6	970.7	980.3	984.1	980.3	982.2
25°	8124.5	7468.4	5115.0	2260.0	995.5	925.0	934.5	947.9	957.4	957.4	957.4
27.5°	8498.3	7640.1	4664.9	1577.2	860.1	873.5	900.2	925.0	938.3	942.1	942.1
30°	8984.6	7853.7	4125.2	1081.4	781.9	804.8	854.4	902.1	926.9	930.7	932.6
32.5°	9598.7	8094.0	3499.6	799.1	715.2	732.3	785.7	865.8	913.5	921.2	921.2
35°	10302.5	8372.4	2826.4	696.1	667.5	673.2	715.2	806.7	890.6	911.6	913.5
37.5°	11072.9	8647.0	2149.4	650.3	627.5	627.5	658.0	736.2	835.3	900.2	907.8
40°	11791.9	8813.0	1506.7	614.1	591.2	591.2	617.9	675.1	768.6	865.8	886.8
42.5°	12455.6	8870.2	1048.9	579.8	556.9	562.6	585.5	631.3	701.8	799.1	818.2
45°	13138.4	8860.6	764.8	539.7	522.6	539.7	556.9	591.2	642.7	698.0	701.8
47.5°	13653.3	8780.5	606.5	501.6	490.1	513.0	528.3	551.2	579.8	576.0	576.0
50°	14135.8	8586.0	488.2	450.1	457.7	484.4	492.0	499.7	501.6	465.3	461.5
52.5°	14502.0	8282.8	391.0	394.8	425.3	452.0	444.4	432.9	413.9	370.0	362.4
55°	14624.1	7699.2	307.1	326.1	377.6	411.9	383.3	358.5	322.3	286.1	278.4
57.5°	14402.8	6945.9	249.8	253.7	318.5	347.1	314.7	286.1	246.0	215.5	209.8
60°	13933.7	6108.6	206.0	190.7	246.0	270.8	249.8	221.2	185.0	162.1	160.2
62.5°	13003.0	5216.1	169.7	148.8	186.9	207.9	194.5	173.6	143.0	127.8	125.9
65°	11046.2	4172.9	137.3	120.2	144.9	162.1	150.7	135.4	112.5	101.1	99.2
67.5°	7710.6	2820.7	112.5	99.2	114.4	127.8	118.2	110.6	89.6	87.7	89.6
70°	3719.0	1359.8	93.5	80.1	89.6	99.2	95.4	89.6	85.8	99.2	114.4
72.5°	1066.1	455.8	74.4	66.8	72.5	78.2	82.0	80.1	93.5	120.2	139.2
73°	820.1	368.1	70.6	62.9	68.7	76.3	80.1	78.2	95.4	122.1	139.2
75°	350.9	177.4	53.4	51.5	57.2	66.8	70.6	70.6	95.4	124.0	133.5
77.5°	158.3	95.4	34.3	40.1	49.6	53.4	59.1	59.1	76.3	95.4	95.4
80°	89.6	51.5	26.7	30.5	36.2	36.2	36.2	32.4	34.3	38.1	42.0
82.5°	57.2	34.3	21.0	24.8	22.9	19.1	15.3	15.3	13.4	15.3	19.1
85°	32.4	19.1	19.1	15.3	9.5	7.6	9.5	7.6	1.9	0.0	1.9
87.5°	19.1	11.4	5.7	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)