

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: P192802

Luminaire Tested: **GAN-AF-04-LED-U-SL2-7030-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL2-7030-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 21100.1 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 258
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: 28.75 FT

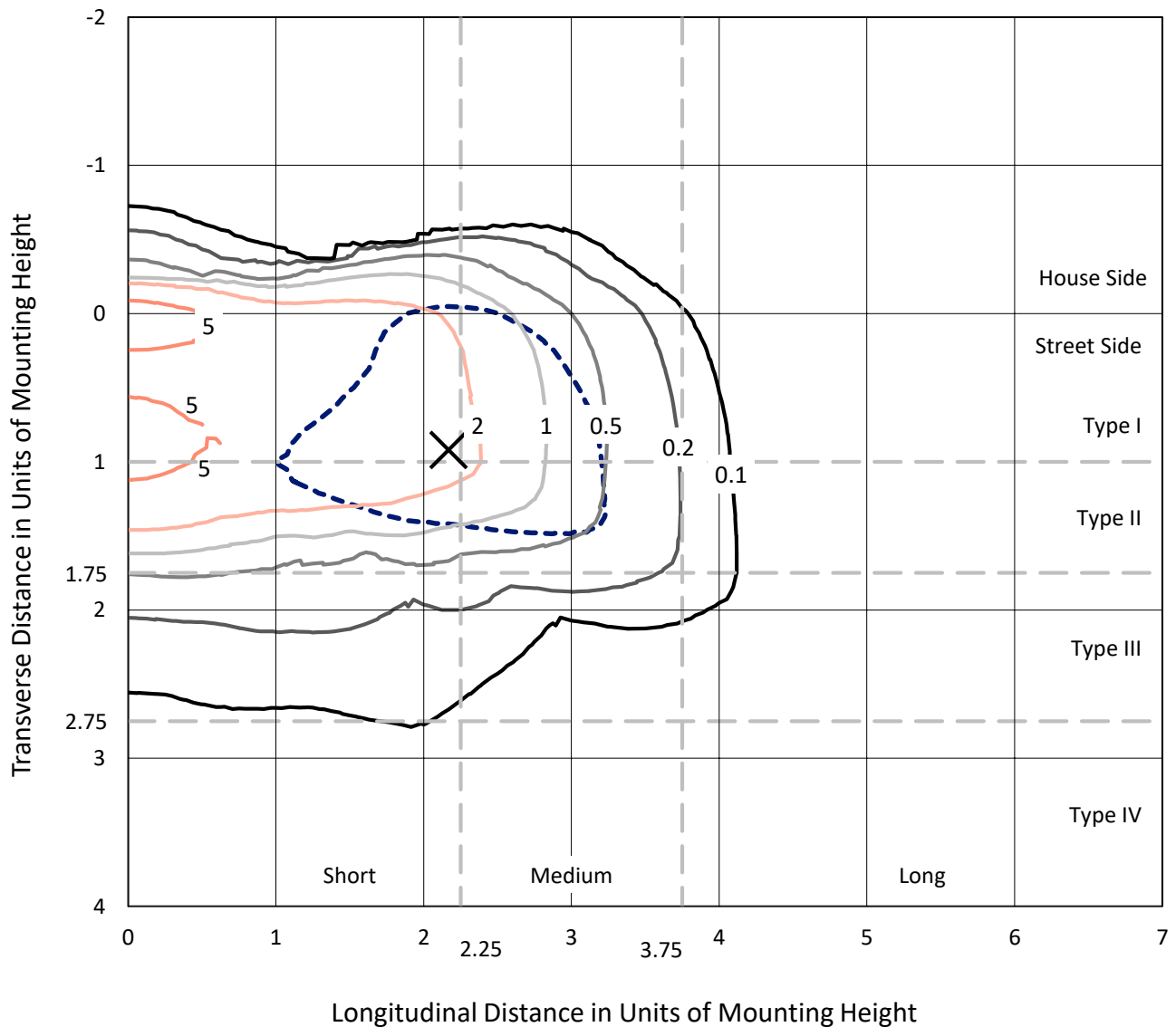


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

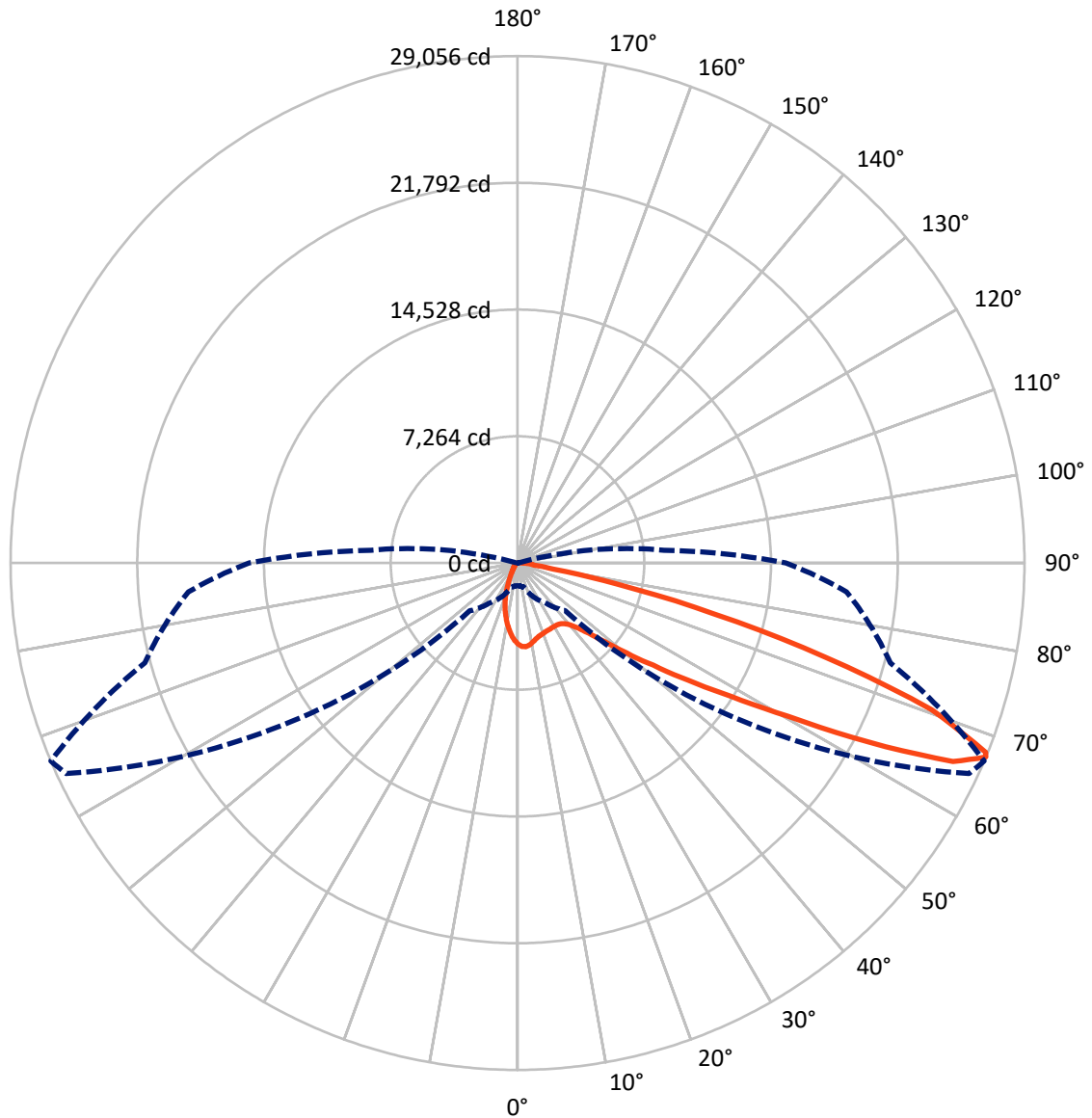


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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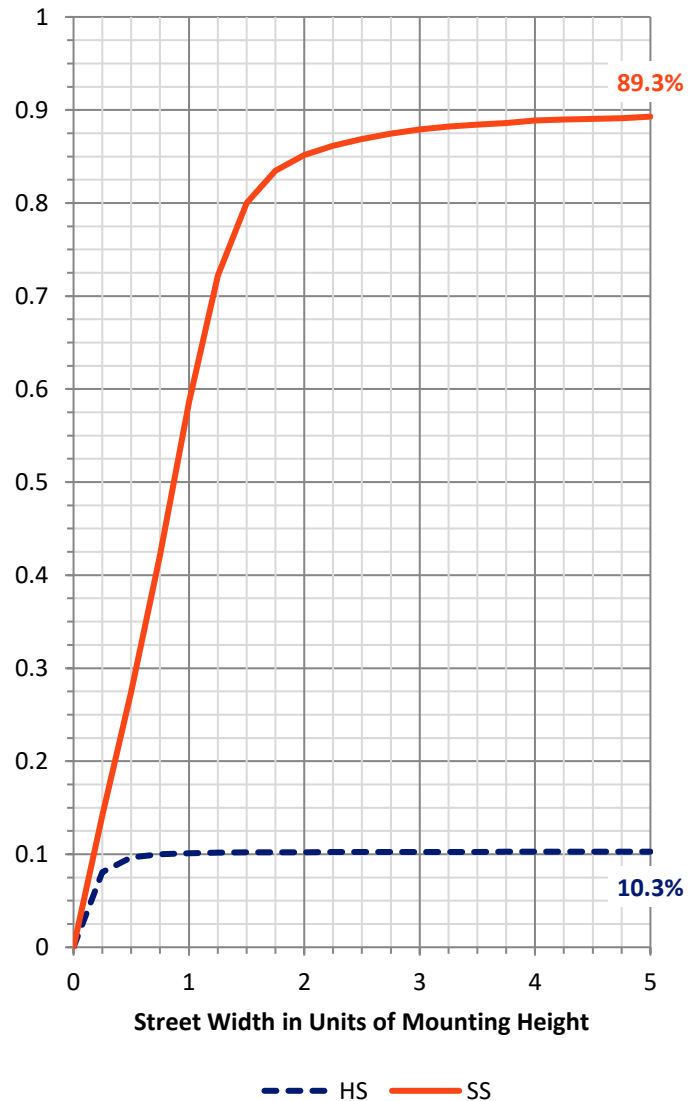
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2190.8	0.0	2190.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18909.3	0.0	18909.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	21100.1	0.0	21100.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.6	1.8
10°-20°	805.9	3.8
20°-30°	1171.7	5.6
30°-40°	1827.9	8.7
40°-50°	3238.0	15.3
50°-60°	5123.8	24.3
60°-70°	5868.6	27.8
70°-80°	2434.2	11.5
80°-90°	251.4	1.2
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°	21100.1	100.0
0°-180°	21100.1	100.0

Coefficient of Utilization



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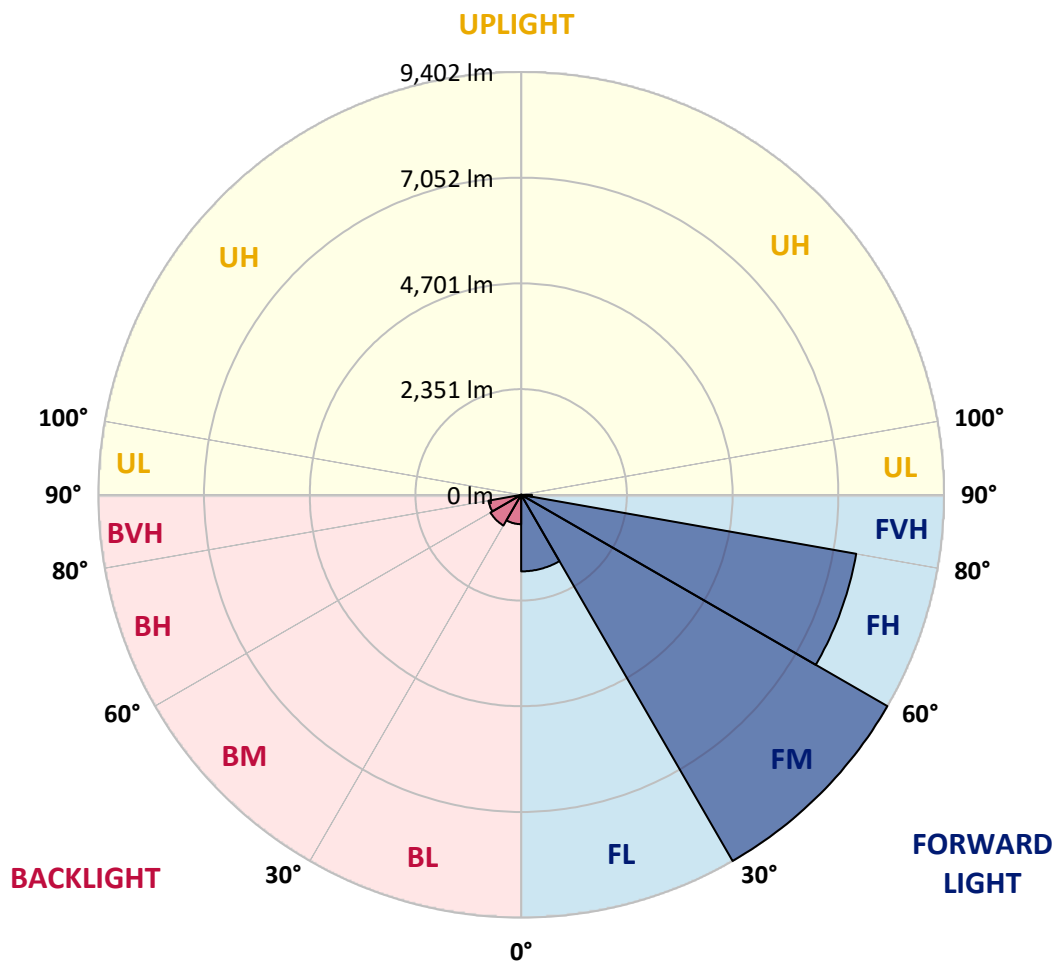
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1702.5	8.1			
FM (30°-60°)	9402.3	44.6			
FH (60°-80°)	7564.5	35.9			G4/12000
FVH (80°-90°)	240.1	1.1			G3/500
BL (0°-30°)	653.7	3.1	B2/1000		
BM (30°-60°)	787.4	3.7	B1/1000		
BH (60°-80°)	738.4	3.5	B2/1000		G2/1000
BVH (80°-90°)	11.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4
2.5°	4810.9	4820.7	4819.5	4826.8	4844.1	4845.3	4828.1	4794.9	4787.5	4744.5	4669.4
5°	4436.8	4465.1	4482.3	4552.4	4631.2	4726.0	4797.3	4823.2	4819.5	4788.8	4675.5
7.5°	4009.7	4038.0	4057.7	4140.2	4244.7	4407.2	4593.0	4745.6	4759.3	4792.4	4670.7
10°	3725.4	3730.3	3757.4	3836.2	3945.7	4111.9	4333.3	4600.5	4641.0	4762.9	4658.3
12.5°	3491.6	3495.2	3530.9	3615.8	3732.8	3900.1	4132.7	4441.7	4504.4	4726.0	4655.9
15°	3325.5	3339.0	3370.9	3459.5	3583.8	3750.0	3988.7	4324.8	4399.9	4712.5	4677.9
17.5°	3270.0	3284.8	3294.6	3358.6	3471.8	3634.3	3879.2	4248.4	4333.3	4719.8	4721.1
20°	3327.9	3339.0	3316.8	3332.9	3403.0	3548.2	3786.9	4183.2	4284.2	4728.4	4776.5
22.5°	3543.3	3548.2	3487.9	3417.7	3405.4	3485.4	3714.3	4131.5	4239.8	4751.8	4841.8
25°	3912.5	3903.9	3805.4	3654.0	3511.3	3474.3	3671.2	4099.5	4217.7	4776.5	4909.3
27.5°	4358.1	4370.3	4234.9	4014.6	3742.6	3548.2	3665.1	4086.0	4207.8	4793.6	4968.4
30°	4899.5	4916.7	4761.6	4484.8	4094.6	3730.3	3721.7	4083.6	4201.7	4782.6	4973.4
32.5°	5452.1	5473.1	5351.2	5065.7	4564.8	4035.5	3849.7	4110.7	4214.0	4744.5	4945.1
35°	6030.6	6060.1	5978.8	5733.9	5202.3	4476.2	4075.0	4193.1	4271.8	4740.8	4916.7
37.5°	6829.2	6856.3	6703.7	6444.1	5974.0	5066.9	4436.8	4348.2	4408.5	4799.9	4924.1
40°	8021.9	8018.2	7624.3	7226.9	6821.9	5817.6	4945.1	4628.8	4659.5	4978.3	5015.2
42.5°	9321.5	9315.3	8733.2	8128.9	7763.4	6742.0	5613.3	5113.7	5092.7	5306.8	5251.5
45°	10323.3	10322.0	9847.0	9166.5	8896.9	7802.7	6477.3	5788.1	5756.1	5841.0	5687.2
47.5°	10750.3	10757.7	10518.9	10040.3	10153.5	9237.8	7566.5	6765.4	6717.3	6682.9	6449.0
50°	10418.1	10432.8	10452.5	10359.0	11075.3	11166.3	9027.3	8142.4	8119.0	7965.2	7599.7
52.5°	9332.6	9407.7	9639.1	9935.6	11395.3	13017.3	11317.7	9853.2	9727.7	9563.9	9161.5
55°	7503.7	7586.2	8025.5	8745.5	10919.0	14233.3	14527.4	12058.6	11849.3	11360.8	10779.8
57.5°	4966.0	5094.0	5731.5	6647.2	9535.6	14429.0	17729.8	15119.4	14390.9	13053.1	12398.3
60°	2735.9	2859.0	3550.6	4380.1	6887.1	13461.7	19883.5	19104.5	17817.1	14944.7	14363.8
62.5°	1684.9	1751.3	2262.1	3033.7	4130.3	10624.8	20329.1	24112.3	22621.9	17380.3	16737.9
65°	1341.4	1369.8	1619.7	2479.8	2961.2	6319.8	18890.4	27930.1	27432.9	20329.1	18863.3
67°	1302.2	1313.2	1431.3	2129.1	2791.2	3874.4	15825.8	28551.5	29056.1	22113.6	18929.7
67.5°	1310.7	1323.0	1435.0	2031.9	2786.3	3560.4	14769.8	28306.7	28944.1	22255.1	18635.6
70°	1263.9	1302.2	1643.0	2030.7	2649.7	2958.6	8845.2	24525.9	25189.1	20678.6	15812.3
72.5°	448.0	450.4	710.0	1643.0	2881.1	2990.7	4441.7	17979.6	18470.8	15818.4	11400.2
75°	265.8	226.5	236.3	467.6	2753.2	2904.5	2562.3	11488.8	11672.1	9064.2	5773.4
77.5°	183.3	159.9	164.9	206.7	1048.6	2863.9	2035.6	5991.1	5795.4	3179.0	1229.5
80°	104.6	92.4	98.5	181.0	381.6	2671.9	1919.9	2429.5	2071.3	539.0	339.7
82.5°	55.4	46.8	56.6	148.9	265.8	1665.2	1923.6	1174.1	930.5	182.1	231.4
85°	19.6	16.0	27.1	102.1	177.2	510.8	1783.3	987.0	775.3	88.6	176.0
87.5°	3.8	3.8	11.0	41.8	71.3	156.3	1054.7	585.8	392.6	52.9	120.6
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°	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4	4653.4
2.5°	4638.6	4585.7	4514.3	4426.8	4323.5	4232.4	4164.8	4094.6	4079.8	4055.2	4051.6
5°	4607.8	4516.8	4339.6	4136.4	3919.9	3724.2	3565.4	3423.8	3361.2	3307.0	3300.8
7.5°	4562.3	4425.6	4124.1	3796.8	3458.4	3150.6	2889.7	2705.2	2535.3	2454.1	2441.7
10°	4509.3	4313.7	3881.7	3427.6	2959.9	2525.4	2137.7	1812.8	1616.0	1499.0	1484.3
12.5°	4460.2	4204.2	3634.3	3044.8	2423.3	1842.4	1344.0	1033.8	827.1	743.4	733.4
15°	4436.8	4115.6	3403.0	2653.5	1862.1	1172.9	734.8	568.5	501.0	481.2	479.9
17.5°	4434.3	4040.5	3176.5	2248.5	1304.5	681.8	478.8	436.9	423.4	418.5	418.5
20°	4433.0	3969.1	2950.0	1828.9	828.3	454.2	398.8	388.9	379.0	372.9	372.9
22.5°	4446.7	3905.0	2713.8	1400.6	521.8	367.9	350.7	340.9	328.7	320.0	318.7
25°	4460.2	3855.9	2472.5	996.9	377.8	320.0	302.7	289.2	271.9	260.9	259.7
27.5°	4462.5	3794.3	2214.0	667.0	316.3	279.3	257.2	236.3	216.7	205.5	204.4
30°	4425.6	3690.9	1927.4	450.4	279.3	242.4	212.9	190.7	172.3	163.7	163.7
32.5°	4353.1	3563.0	1612.2	339.7	248.6	208.0	176.0	155.0	142.8	139.1	137.8
35°	4287.9	3425.1	1288.6	288.0	222.8	176.0	144.0	130.4	123.0	121.9	120.6
37.5°	4249.6	3314.4	984.5	260.9	198.2	147.7	121.9	112.0	108.2	105.9	107.1
40°	4279.2	3222.0	727.3	238.7	173.5	123.0	103.4	98.5	94.7	93.5	93.5
42.5°	4408.5	3206.0	540.3	219.1	150.1	102.1	89.8	86.1	83.7	82.5	83.7
45°	4748.1	3304.4	419.7	200.6	126.7	86.1	76.3	75.1	73.9	73.9	73.9
47.5°	5258.8	3507.6	349.5	179.7	105.9	73.9	66.4	65.2	64.0	65.2	65.2
50°	6124.1	3879.2	312.6	158.8	87.4	62.8	56.6	56.6	56.6	56.6	57.8
52.5°	7439.7	4610.3	288.0	137.8	71.3	52.9	48.0	48.0	49.2	49.2	50.5
55°	8905.5	5580.1	265.8	116.9	60.3	44.4	39.4	40.7	41.8	43.0	43.0
57.5°	10495.6	6654.6	247.4	96.0	51.7	35.7	33.3	34.4	35.7	38.1	38.1
60°	12414.2	7817.5	220.2	75.1	43.0	28.3	25.9	28.3	32.0	34.4	35.7
62.5°	14521.3	8942.5	185.8	59.1	35.7	22.2	20.9	25.9	30.8	33.3	34.4
65°	15961.2	9295.7	142.8	48.0	27.1	16.0	17.3	23.4	29.5	33.3	33.3
67°	15377.9	8428.0	116.9	40.7	22.2	12.3	16.0	23.4	29.5	32.0	33.3
67.5°	14973.0	8088.4	112.0	39.4	20.9	12.3	16.0	23.4	29.5	33.3	33.3
70°	12183.0	6076.1	93.5	29.5	17.3	11.0	13.5	22.2	28.3	32.0	32.0
72.5°	8464.9	3746.3	83.7	20.9	14.7	9.9	12.3	20.9	27.1	30.8	32.0
75°	4024.4	1356.2	71.3	16.0	13.5	8.6	11.0	20.9	27.1	30.8	30.8
77.5°	820.9	315.1	57.8	13.5	11.0	8.6	9.9	19.6	25.9	29.5	29.5
80°	269.6	121.9	43.0	12.3	11.0	8.6	9.9	18.5	25.9	28.3	29.5
82.5°	194.5	61.5	28.3	12.3	11.0	8.6	8.6	18.5	24.6	28.3	28.3
85°	148.9	43.0	18.5	12.3	11.0	8.6	8.6	17.3	23.4	27.1	27.1
87.5°	98.5	17.3	14.7	12.3	11.0	8.6	8.6	17.3	22.2	25.9	27.1
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)