

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: P322493

Luminaire Tested: **GAN-SA9C-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322493
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-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 37553 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

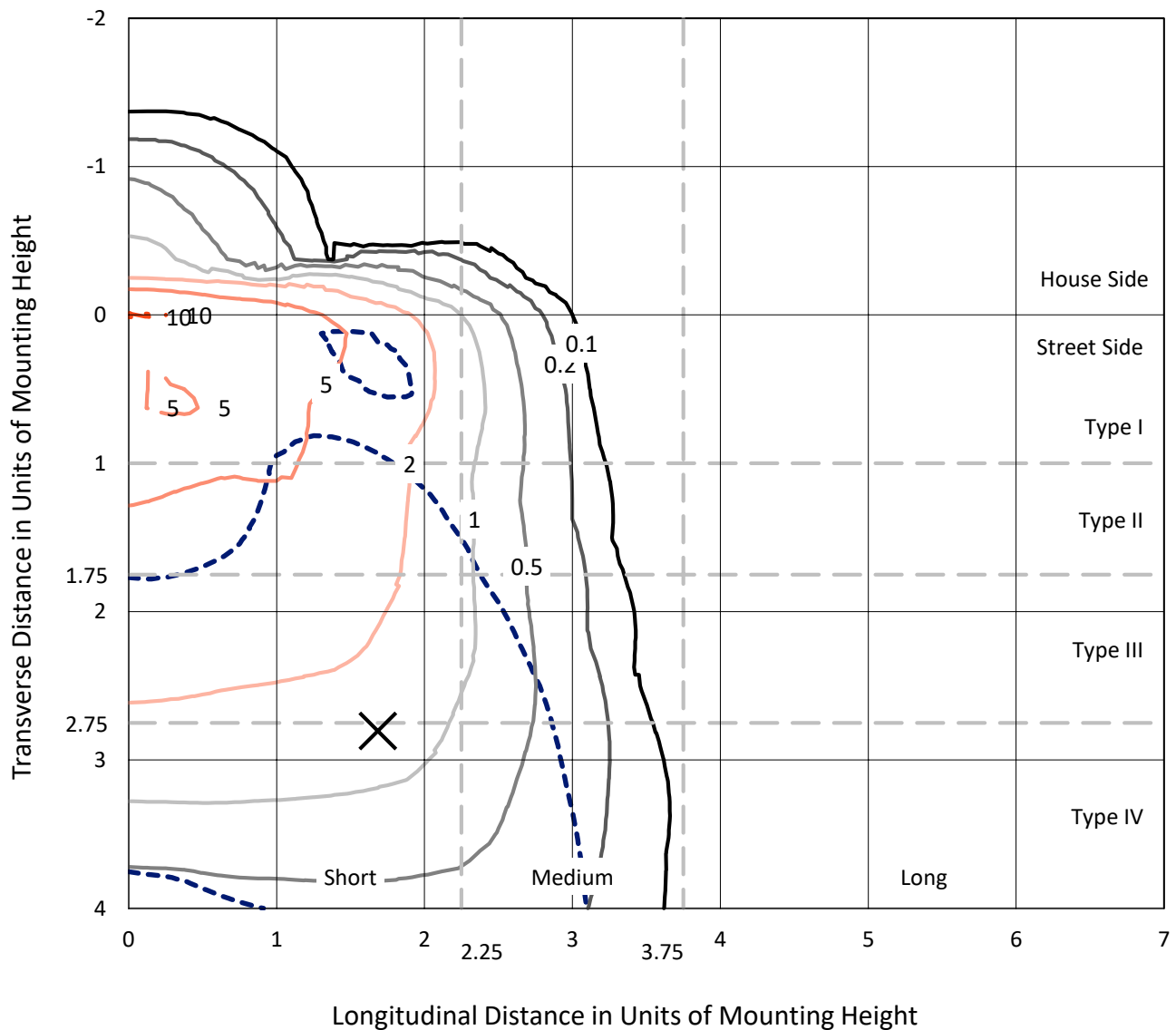
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

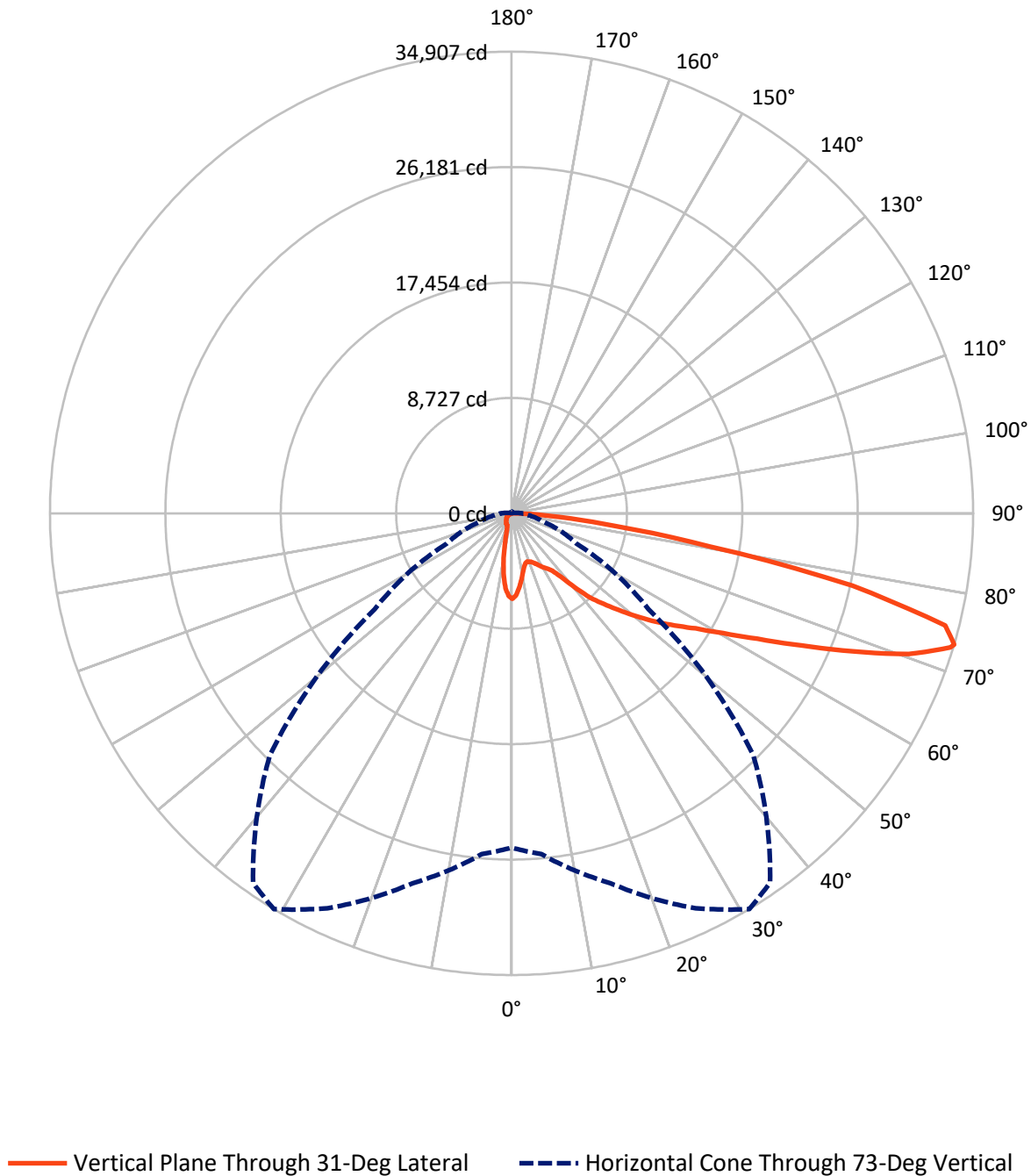
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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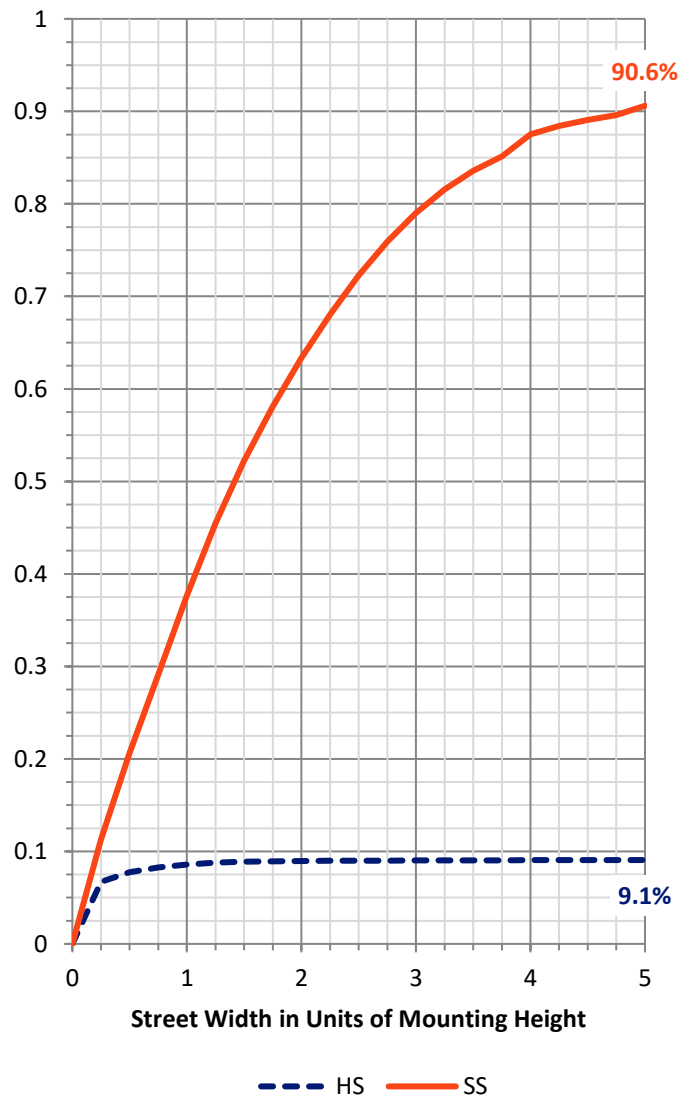
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3423.1	0.0	3423.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	34129.9	0.0	34129.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	37553.0	0.0	37553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.7	1.4
10°-20°	1163.2	3.1
20°-30°	1742.8	4.6
30°-40°	2772.8	7.4
40°-50°	4951.4	13.2
50°-60°	7683.2	20.5
60°-70°	10213.8	27.2
70°-80°	7682.8	20.5
80°-90°	807.3	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°	37553.0	100.0
0°-180°	37553.0	100.0

Coefficient of Utilization



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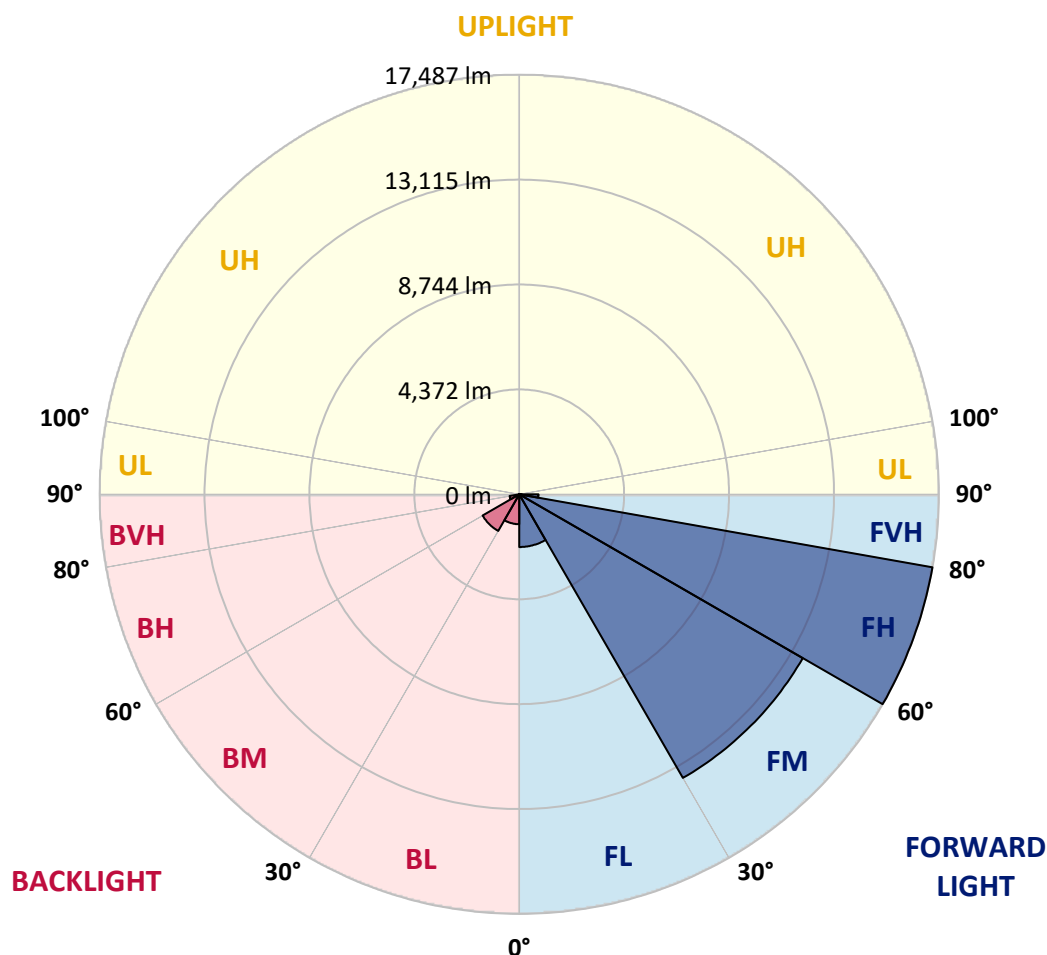
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2196.9	5.9			
FM	(30°-60°)	13645.5	36.3			
FH	(60°-80°)	17487.0	46.6			G5
FVH	(80°-90°)	800.5	2.1			G5
BL	(0°-30°)	1244.8	3.3	B3/2500		
BM	(30°-60°)	1762.0	4.7	B2/2500		
BH	(60°-80°)	409.6	1.1	B1/500		G1/500
BVH	(80°-90°)	6.8	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°	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1
2.5°	6122.9	6148.7	6176.2	6181.8	6227.7	6229.5	6295.7	6345.3	6394.9	6442.7	6459.2
5°	5494.5	5536.7	5586.4	5636.0	5733.4	5772.0	5933.7	6099.1	6257.1	6407.8	6481.3
7.5°	4823.8	4871.5	4941.4	5064.5	5172.9	5248.2	5503.7	5797.7	6091.7	6369.2	6529.1
10°	4211.8	4255.9	4329.4	4459.9	4627.1	4730.0	5073.7	5481.6	5913.5	6334.3	6600.7
12.5°	3822.2	3846.1	3886.6	4026.2	4176.9	4292.7	4697.0	5202.3	5766.5	6332.4	6716.5
15°	3750.6	3757.9	3724.9	3787.3	3904.9	4017.0	4426.8	4976.3	5654.4	6361.8	6867.2
17.5°	3864.5	3860.8	3750.6	3743.2	3836.9	3928.8	4294.5	4820.1	5575.3	6429.8	7062.0
20°	4037.3	4024.4	3833.3	3798.4	3897.6	3984.0	4285.3	4761.3	5545.9	6543.8	7299.0
22.5°	4267.0	4244.9	3945.4	3908.6	4015.2	4105.2	4399.3	4818.2	5571.7	6696.3	7574.7
25°	4551.8	4518.7	4138.3	4097.9	4206.3	4296.4	4603.2	4981.8	5648.8	6881.9	7923.8
27.5°	4873.4	4825.6	4447.0	4342.3	4465.4	4559.1	4875.2	5231.7	5770.1	7078.5	8352.0
30°	5176.6	5114.1	4772.3	4599.6	4750.2	4855.0	5169.2	5529.4	5964.9	7381.7	8938.2
32.5°	5481.6	5411.8	5062.6	4856.8	4992.8	5106.7	5472.4	5939.2	6330.6	7844.8	9717.3
35°	6183.6	6110.1	5681.9	5342.0	5340.1	5404.4	5896.9	6499.7	6813.9	8489.8	10647.2
37.5°	7365.2	7322.9	6915.0	6270.0	6097.2	6025.6	6475.8	7168.6	7508.5	9377.4	11696.4
40°	8658.9	8622.1	8164.5	7580.2	7317.4	7141.0	7306.4	8100.2	8489.8	10461.6	12767.8
42.5°	10119.8	9945.2	9129.3	8954.7	8719.5	8585.4	8436.5	9248.7	9695.3	11641.3	13829.9
45°	11446.5	11152.5	10094.0	9829.4	9776.1	9809.2	9891.9	10792.3	11051.4	13043.4	14888.4
47.5°	12236.7	12005.2	11192.9	10939.3	10924.6	11143.3	11768.1	12536.2	12402.1	14265.4	15820.1
50°	12988.3	12778.8	12104.4	12166.9	12234.9	12532.6	13897.9	14329.8	13635.1	15373.5	16674.6
52.5°	13596.5	13276.8	12924.0	13275.0	13609.4	14089.0	16095.7	15939.5	14509.8	16255.6	17405.9
55°	13947.5	13802.4	13973.3	14326.1	14954.5	15733.7	18170.4	17279.1	15149.3	17060.5	17892.9
57.5°	15233.9	14949.0	15289.0	15594.0	16413.6	17503.3	19947.4	18277.0	15610.6	17558.5	18005.0
60°	16790.3	16560.6	16760.9	17268.1	18374.4	19655.2	21608.6	19091.0	15851.3	17878.2	17714.7
62.5°	19267.4	18964.2	18839.3	19407.1	20873.5	22271.9	22869.2	19655.2	15798.0	17736.7	16718.7
65°	22586.2	22271.9	21713.3	22227.8	24093.0	25079.8	24278.6	19774.6	15430.5	16591.9	14201.1
67.5°	25985.8	25757.9	25280.1	26147.5	27830.7	28148.7	25768.9	19484.3	14247.1	13453.2	10033.4
70°	28231.4	28134.0	28444.5	30363.0	31864.3	31772.4	27136.1	17924.1	11104.7	8273.0	4963.4
72.5°	26612.4	27079.2	29372.5	32851.1	34685.1	33935.3	26434.2	13763.8	6347.1	3182.8	1435.2
73°	25270.9	25868.2	28955.4	32944.8	34907.4	34086.0	25844.3	12633.6	5410.0	2512.0	1087.9
75°	17580.5	18313.7	23971.7	30682.7	33867.3	32476.3	21542.4	7732.7	2506.5	1113.6	439.2
77.5°	8535.7	9077.8	13199.6	22169.0	26338.6	25373.9	13410.9	2881.4	1132.0	696.5	202.1
80°	3186.4	3542.9	5729.7	11283.0	15221.0	15619.8	5898.8	1089.7	753.4	560.5	102.9
82.5°	834.3	929.8	2113.3	5031.4	7800.7	8164.5	1859.7	549.4	551.3	461.2	62.5
85°	266.5	305.0	659.7	2258.4	3675.2	3226.9	485.1	266.5	400.6	343.6	34.9
87.5°	33.1	42.3	209.5	531.1	810.4	450.2	75.3	79.0	170.9	191.1	20.2
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°	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1	6461.1
2.5°	6475.8	6466.6	6468.4	6420.6	6389.4	6326.9	6262.6	6233.2	6202.0	6189.1	6202.0
5°	6508.8	6492.3	6444.5	6297.5	6141.3	5939.2	5749.9	5606.6	5426.5	5376.9	5428.3
7.5°	6560.3	6527.2	6387.6	6088.0	5740.7	5354.8	4921.1	4605.1	4346.0	4178.7	4239.4
10°	6635.6	6573.2	6292.0	5783.0	5161.9	4478.3	3862.7	3383.1	3043.1	2903.4	2897.9
12.5°	6762.4	6644.8	6174.4	5386.1	4454.4	3542.9	2736.2	2216.2	1940.5	1762.3	1758.6
15°	6902.1	6729.4	6025.6	4910.1	3631.1	2537.8	1762.3	1367.2	1188.9	1132.0	1124.6
17.5°	7073.0	6826.8	5832.6	4323.9	2769.3	1681.4	1150.3	1036.4	1029.1	1023.6	1023.6
20°	7288.0	6942.5	5584.5	3653.2	1964.4	1122.8	977.6	985.0	988.6	981.3	983.1
22.5°	7537.9	7060.1	5288.7	2932.8	1328.6	939.0	935.3	944.5	948.2	944.5	946.4
25°	7828.3	7196.1	4928.5	2177.6	959.2	891.2	900.4	913.3	922.5	922.5	922.5
27.5°	8188.4	7361.5	4494.8	1519.7	828.8	841.6	867.4	891.2	904.1	907.8	907.8
30°	8657.0	7567.3	3974.8	1041.9	753.4	775.5	823.3	869.2	893.1	896.8	898.6
32.5°	9248.7	7798.9	3372.0	770.0	689.1	705.6	757.1	834.3	880.2	887.6	887.6
35°	9926.8	8067.2	2723.4	670.7	643.2	648.7	689.1	777.3	858.2	878.4	880.2
37.5°	10669.2	8331.8	2071.0	626.6	604.6	604.6	634.0	709.3	804.9	867.4	874.7
40°	11362.0	8491.6	1451.7	591.7	569.7	569.7	595.4	650.5	740.6	834.3	854.5
42.5°	12001.5	8546.8	1010.7	558.6	536.6	542.1	564.1	608.3	676.2	770.0	788.3
45°	12659.4	8537.6	736.9	520.0	503.5	520.0	536.6	569.7	619.3	672.6	676.2
47.5°	13155.5	8460.4	584.4	483.3	472.3	494.3	509.0	531.1	558.6	555.0	555.0
50°	13620.4	8273.0	470.4	433.7	441.0	466.8	474.1	481.5	483.3	448.4	444.7
52.5°	13973.3	7980.8	376.7	380.4	409.8	435.5	428.2	417.1	398.8	356.5	349.1
55°	14090.9	7418.5	295.9	314.2	363.8	396.9	369.4	345.5	310.6	275.6	268.3
57.5°	13877.7	6692.6	240.7	244.4	306.9	334.4	303.2	275.6	237.1	207.7	202.1
60°	13425.6	5885.9	198.5	183.8	237.1	260.9	240.7	213.2	178.2	156.2	154.4
62.5°	12528.9	5025.9	163.5	143.3	180.1	200.3	187.4	167.2	137.8	123.1	121.3
65°	10643.5	4020.7	132.3	115.8	139.7	156.2	145.2	130.5	108.4	97.4	95.6
67.5°	7429.5	2717.8	108.4	95.6	110.3	123.1	113.9	106.6	86.4	84.5	86.4
70°	3583.4	1310.2	90.0	77.2	86.4	95.6	91.9	86.4	82.7	95.6	110.3
72.5°	1027.2	439.2	71.7	64.3	69.8	75.3	79.0	77.2	90.0	115.8	134.1
73°	790.2	354.7	68.0	60.6	66.2	73.5	77.2	75.3	91.9	117.6	134.1
75°	338.1	170.9	51.5	49.6	55.1	64.3	68.0	68.0	91.9	119.4	128.6
77.5°	152.5	91.9	33.1	38.6	47.8	51.5	57.0	57.0	73.5	91.9	91.9
80°	86.4	49.6	25.7	29.4	34.9	34.9	34.9	31.2	33.1	36.8	40.4
82.5°	55.1	33.1	20.2	23.9	22.1	18.4	14.7	14.7	12.9	14.7	18.4
85°	31.2	18.4	18.4	14.7	9.2	7.4	9.2	7.4	1.8	0.0	1.8
87.5°	18.4	11.0	5.5	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)