

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: P323750

Luminaire Tested: **GAN-SA6A-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18918 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

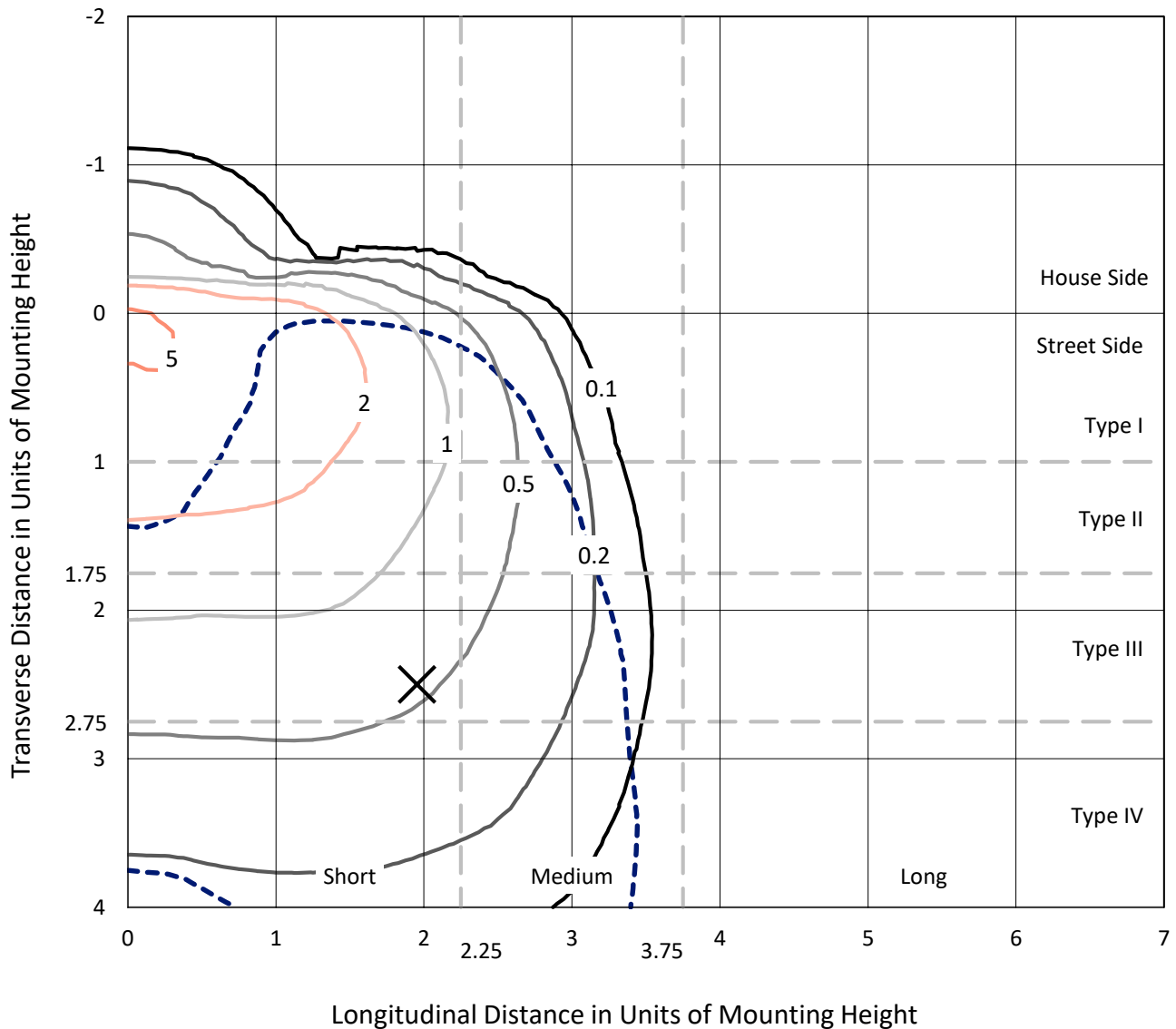
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

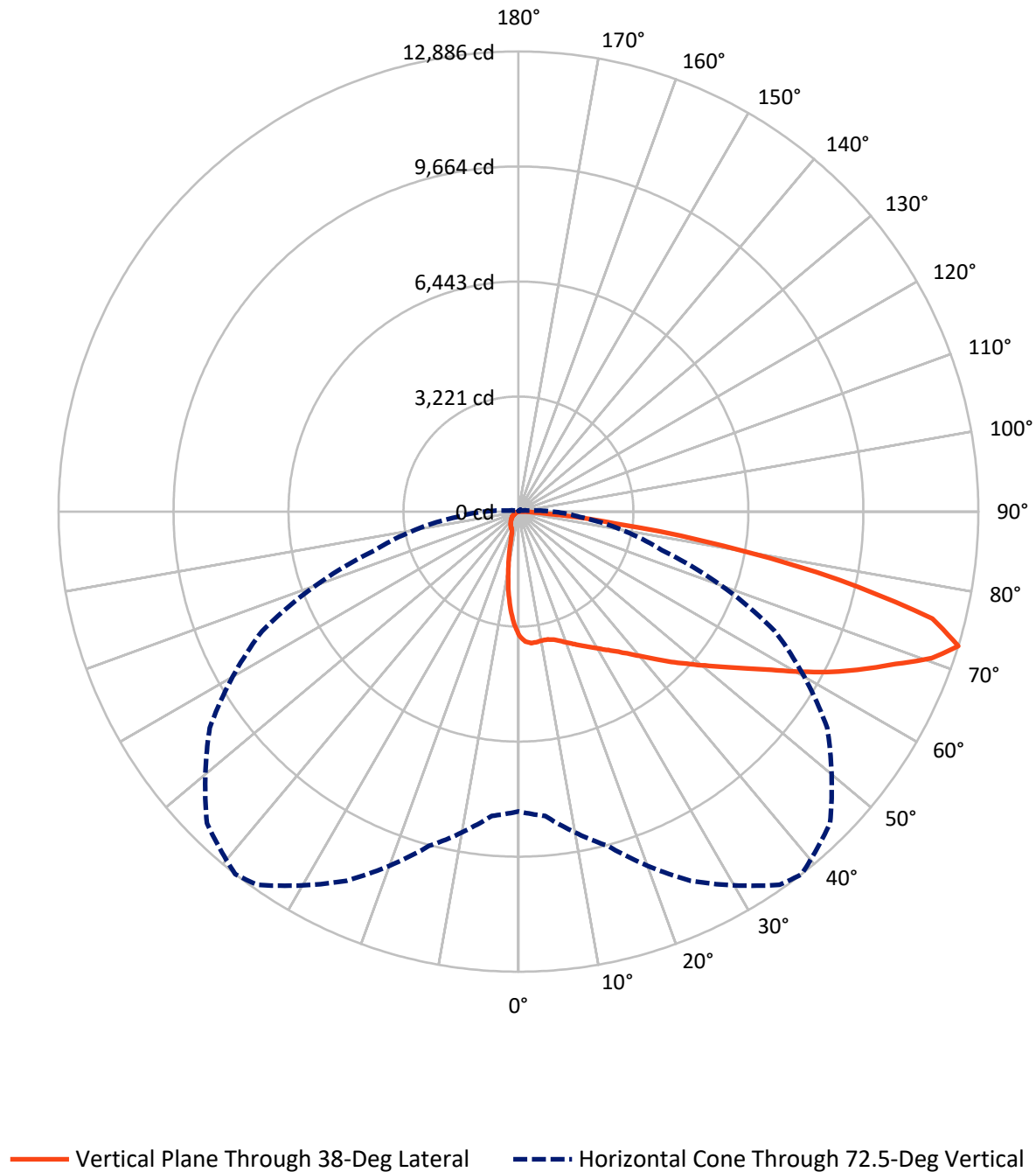
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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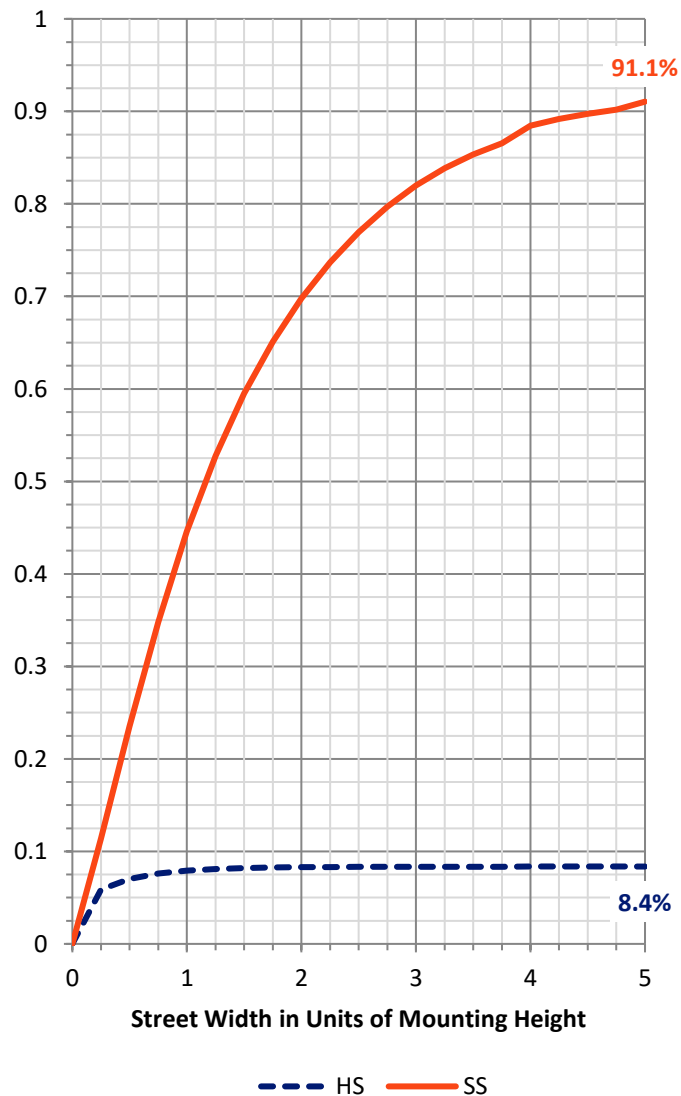
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1592.0	0.0	1592.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17326.0	0.0	17326.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	18918.0	0.0	18918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.5	1.6
10°-20°	724.9	3.8
20°-30°	1153.0	6.1
30°-40°	1733.4	9.2
40°-50°	2644.5	14.0
50°-60°	3737.5	19.8
60°-70°	4688.1	24.8
70°-80°	3505.4	18.5
80°-90°	434.7	2.3
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°	18918.0	100.0
0°-180°	18918.0	100.0

Coefficient of Utilization



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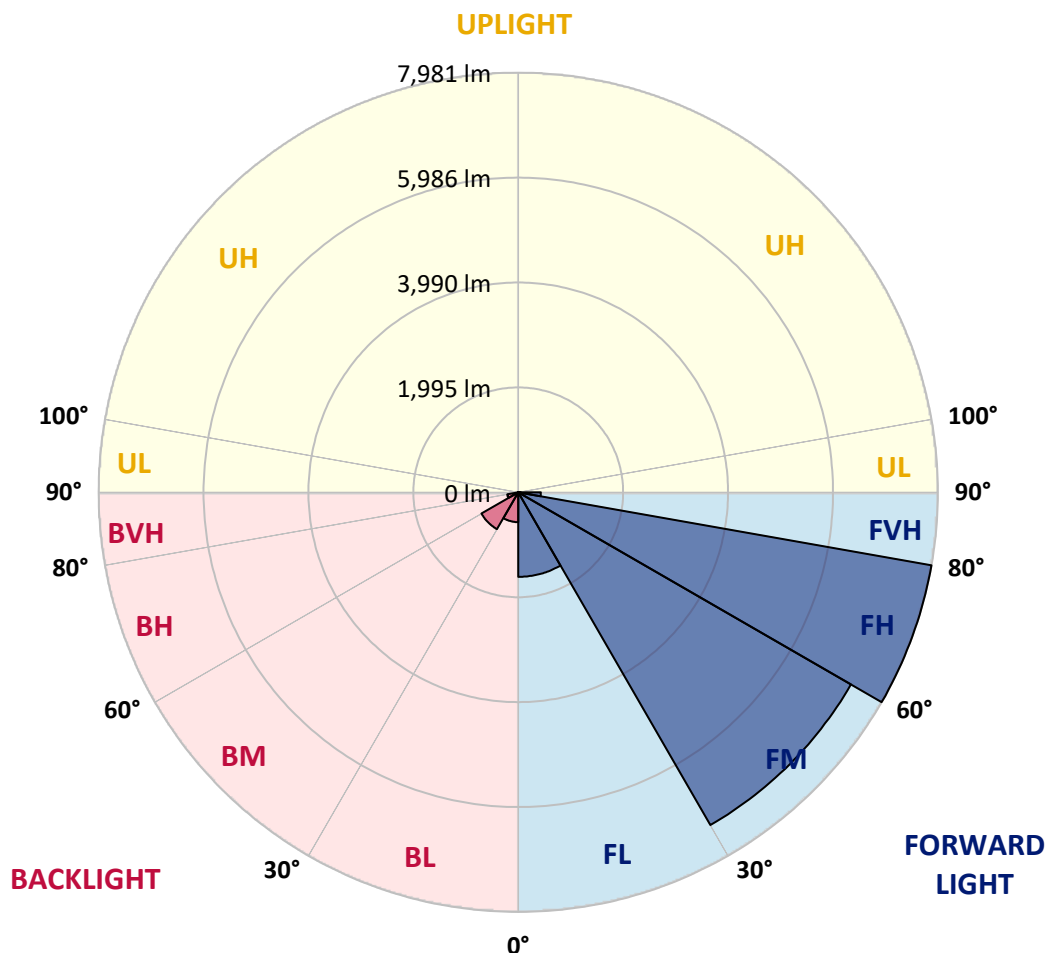
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1607.6	8.5			
FM	(30°-60°)	7307.0	38.6			
FH	(60°-80°)	7980.8	42.2			G4/12000
FVH	(80°-90°)	430.6	2.3			G3/500
BL	(0°-30°)	566.9	3.0	B2/1000		
BM	(30°-60°)	808.5	4.3	B1/1000		
BH	(60°-80°)	212.7	1.1	B1/500		G1/500
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0
2.5°	3692.7	3693.4	3684.8	3670.7	3652.6	3643.2	3627.4	3602.3	3575.6	3527.7	3475.8
5°	3768.1	3768.1	3757.1	3738.2	3709.2	3700.5	3670.7	3630.6	3575.6	3497.8	3410.6
7.5°	3760.2	3761.8	3746.9	3727.2	3698.2	3690.3	3654.2	3609.4	3541.0	3446.7	3335.2
10°	3719.4	3723.3	3711.5	3702.1	3675.4	3666.7	3632.9	3588.2	3519.8	3419.2	3291.2
12.5°	3677.7	3681.7	3685.6	3694.2	3677.7	3674.6	3647.9	3610.2	3545.0	3440.5	3295.9
15°	3651.0	3658.9	3687.2	3720.9	3724.9	3721.7	3704.4	3669.1	3603.1	3494.7	3329.7
17.5°	3651.0	3663.6	3722.5	3786.9	3809.7	3812.1	3797.2	3747.7	3669.1	3552.8	3361.1
20°	3681.7	3698.9	3790.9	3882.0	3919.7	3919.7	3890.7	3821.5	3729.6	3605.5	3382.3
22.5°	3760.2	3783.0	3898.5	4003.8	4043.9	4035.2	3995.9	3895.4	3792.4	3665.2	3409.0
25°	3915.0	3932.3	4052.5	4158.6	4182.9	4163.3	4113.8	3984.9	3872.6	3746.1	3457.7
27.5°	4114.6	4116.9	4241.1	4330.6	4315.7	4302.3	4240.3	4097.3	3988.1	3861.6	3541.8
30°	4333.8	4333.8	4443.0	4511.3	4465.8	4454.8	4392.7	4233.2	4135.8	4018.7	3661.2
32.5°	4545.9	4555.3	4644.1	4687.3	4636.3	4625.3	4564.8	4405.3	4332.2	4258.3	3847.4
35°	4751.0	4758.0	4842.1	4865.7	4817.0	4820.1	4776.9	4641.8	4614.3	4604.8	4127.9
37.5°	4949.7	4951.3	5036.9	5051.9	5027.5	5054.2	5058.2	4938.7	4989.8	5066.0	4523.1
40°	5131.2	5132.8	5217.7	5256.1	5297.8	5332.4	5363.0	5299.4	5468.3	5645.1	4993.7
42.5°	5276.6	5293.1	5400.7	5473.8	5583.8	5649.8	5733.1	5729.9	6037.9	6303.5	5562.6
45°	5404.6	5432.9	5583.0	5711.1	5899.6	6004.9	6135.3	6237.5	6679.0	7036.5	6138.5
47.5°	5573.6	5600.3	5771.6	5981.3	6232.7	6371.0	6587.1	6807.9	7383.8	7756.2	6701.0
50°	5811.6	5799.8	5968.8	6269.7	6592.6	6774.1	7082.1	7412.8	8083.0	8383.1	7031.8
52.5°	6065.4	6060.7	6185.6	6583.1	7016.8	7229.0	7636.0	8038.2	8751.6	8815.2	7183.4
55°	6379.7	6345.9	6451.2	6940.6	7520.5	7748.3	8227.6	8657.3	9284.3	9058.8	7259.6
57.5°	6708.9	6653.1	6753.6	7339.0	8088.5	8358.0	8882.8	9260.7	9638.6	9225.4	7258.8
60°	7049.1	6983.1	7102.5	7837.1	8794.0	9105.9	9593.1	9668.5	9969.4	9309.4	7205.4
62.5°	7333.5	7294.2	7471.7	8369.8	9582.1	9888.5	10129.7	10039.3	10248.3	9374.6	7080.5
65°	7634.4	7636.7	7923.5	8991.2	10419.6	10626.2	10646.6	10520.2	10481.7	9361.3	6657.8
67.5°	8041.4	8079.1	8557.5	9835.0	11234.3	11393.8	11392.3	11041.1	10652.1	8830.2	5720.5
70°	8471.9	8560.7	9288.2	10800.6	12123.7	12285.6	12202.3	11372.6	10029.9	7140.2	4048.6
72.5°	8399.6	8553.6	9694.4	11409.5	12762.5	12885.8	12344.5	10557.9	7927.4	4149.9	1723.8
75°	6480.2	6658.6	8889.1	10806.1	12092.3	11981.5	10606.6	8215.8	4332.2	1158.1	388.1
77.5°	3423.2	3518.2	5872.1	8232.3	9428.9	9197.1	7471.7	4557.7	1320.7	286.8	174.4
80°	1792.9	1814.9	2558.9	4670.8	5819.5	5821.0	4428.1	2001.9	544.5	146.9	117.1
82.5°	960.1	978.9	1352.1	2158.2	3049.2	2764.0	1695.5	1101.5	316.6	83.3	112.4
85°	231.0	234.9	766.8	986.0	1198.9	856.4	503.6	924.7	85.6	48.7	91.1
87.5°	88.8	90.4	284.4	426.6	305.6	198.0	235.7	344.9	11.0	18.9	14.1
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°	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0	3479.0
2.5°	3444.4	3424.0	3373.7	3310.0	3253.5	3212.6	3151.3	3111.3	3084.6	3083.8	3073.6
5°	3357.2	3315.5	3207.1	3078.3	2961.2	2855.9	2731.8	2633.6	2560.5	2548.7	2523.6
7.5°	3263.7	3195.3	3028.8	2827.6	2631.2	2431.7	2199.9	2056.1	1932.8	1873.8	1867.5
10°	3206.3	3110.5	2874.0	2583.3	2275.3	1950.8	1647.6	1437.8	1286.1	1242.9	1210.7
12.5°	3194.5	3068.1	2754.6	2353.9	1913.9	1484.9	1149.4	926.3	805.3	766.8	756.6
15°	3206.3	3048.4	2654.0	2126.8	1547.8	1053.6	771.5	641.9	596.3	585.3	584.5
17.5°	3213.4	3024.8	2540.1	1874.6	1192.7	752.7	590.8	553.1	546.0	545.3	546.8
20°	3212.6	2988.7	2404.2	1593.3	887.0	591.6	534.3	526.4	524.8	525.6	524.8
22.5°	3207.1	2946.3	2254.9	1303.4	670.2	528.8	509.9	505.2	504.4	504.4	504.4
25°	3217.3	2912.5	2090.7	1026.1	552.3	499.7	487.9	484.0	483.2	483.2	481.6
27.5°	3254.3	2893.6	1910.8	789.6	498.9	473.8	464.3	463.5	461.2	460.4	462.0
30°	3314.0	2893.6	1713.6	614.4	466.7	447.0	440.0	438.4	437.6	436.8	437.6
32.5°	3419.2	2915.6	1498.3	510.7	436.0	417.2	412.5	414.8	412.5	412.5	412.5
35°	3609.4	2981.6	1272.8	445.5	403.8	388.1	383.4	386.6	385.0	385.0	384.2
37.5°	3886.7	3104.2	1045.7	406.2	375.6	359.1	352.8	357.5	355.9	355.9	355.1
40°	4224.6	3282.5	829.7	376.3	348.1	330.8	325.3	327.6	323.7	323.7	325.3
42.5°	4641.8	3508.8	641.1	347.3	320.6	304.1	300.9	298.6	291.5	287.6	288.3
45°	5105.3	3744.5	499.7	319.0	294.6	281.3	276.6	270.3	258.5	250.6	251.4
47.5°	5519.3	3926.0	406.2	291.5	271.1	260.8	253.8	242.0	224.7	215.3	216.1
50°	5737.0	3953.5	345.7	264.0	249.1	238.8	228.6	210.6	190.1	179.9	179.1
52.5°	5792.8	3824.7	300.9	238.8	227.1	215.3	201.9	177.6	154.8	143.8	142.2
55°	5813.2	3628.2	260.8	215.3	203.5	190.1	172.8	145.3	124.1	113.1	112.4
57.5°	5745.6	3335.2	229.4	194.1	179.9	163.4	142.2	116.3	95.9	87.2	87.2
60°	5595.6	2938.4	205.1	171.3	155.6	136.7	114.7	90.4	71.5	64.4	64.4
62.5°	5296.2	2424.6	182.3	147.7	132.8	113.1	92.7	68.4	50.3	46.4	47.1
65°	4731.3	1839.3	159.5	126.5	113.1	93.5	72.3	48.7	33.8	33.8	35.4
67.5°	3858.4	1277.5	135.9	107.6	97.4	76.2	55.0	33.8	23.6	26.7	29.9
70°	2554.2	716.5	116.3	88.8	83.3	60.5	40.9	22.8	18.9	25.1	30.6
72.5°	964.0	278.9	97.4	71.5	72.3	46.4	29.1	17.3	17.3	27.5	36.1
75°	268.7	136.7	69.9	52.6	56.6	33.8	21.2	14.9	16.5	31.4	42.4
77.5°	157.9	100.6	45.6	30.6	38.5	23.6	14.1	11.8	14.1	26.7	40.9
80°	127.3	53.4	26.7	15.7	21.2	13.4	9.4	7.1	3.9	10.2	21.2
82.5°	127.3	32.2	12.6	11.0	11.0	7.1	4.7	3.1	0.8	0.0	5.5
85°	85.6	13.4	7.9	7.1	5.5	2.4	1.6	0.8	0.0	0.0	0.0
87.5°	14.1	5.5	3.1	1.6	0.8	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)