

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: P322683

Luminaire Tested: **GAN-SA9B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322683
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-SA9B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA 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: 26671 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

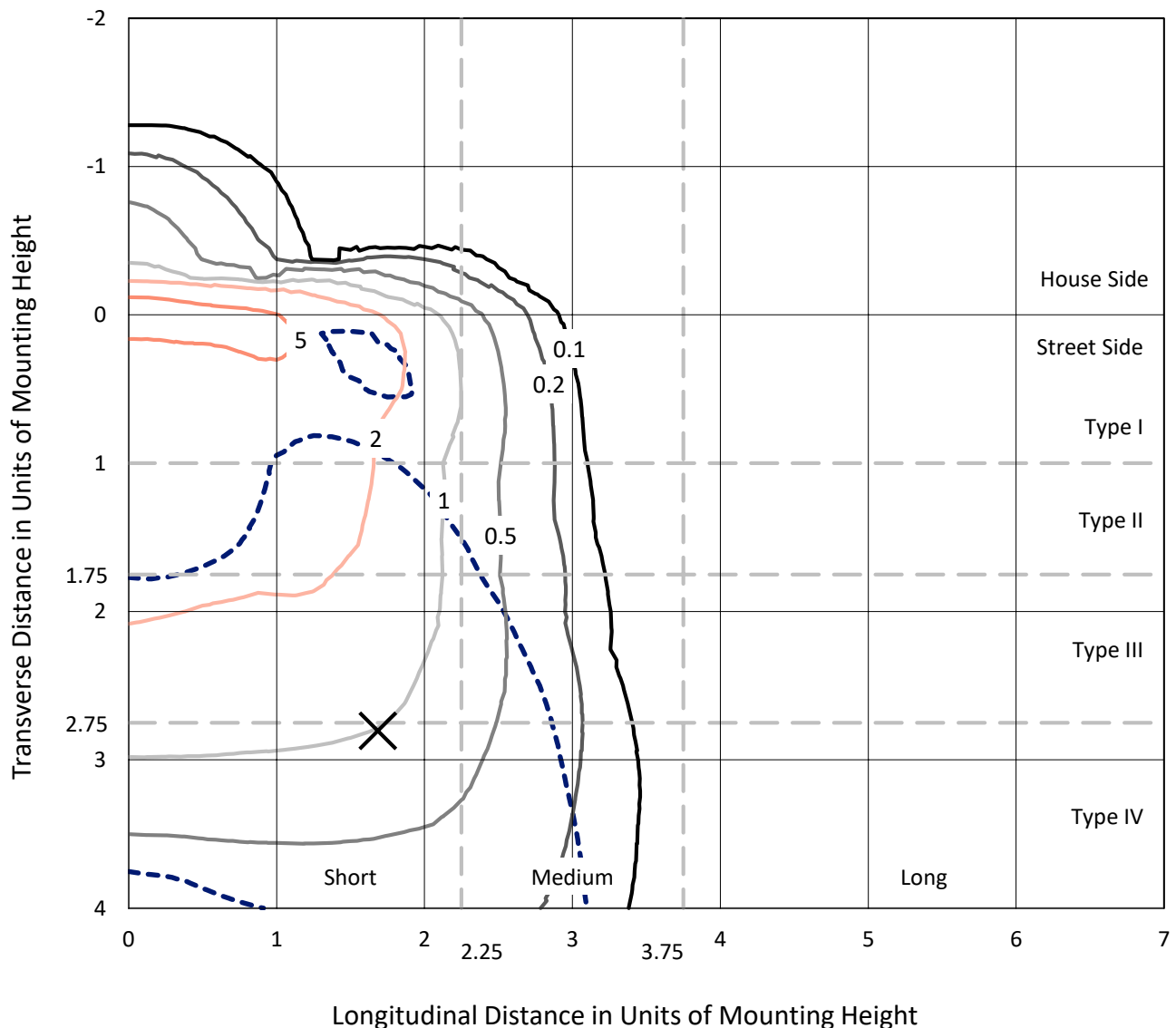
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

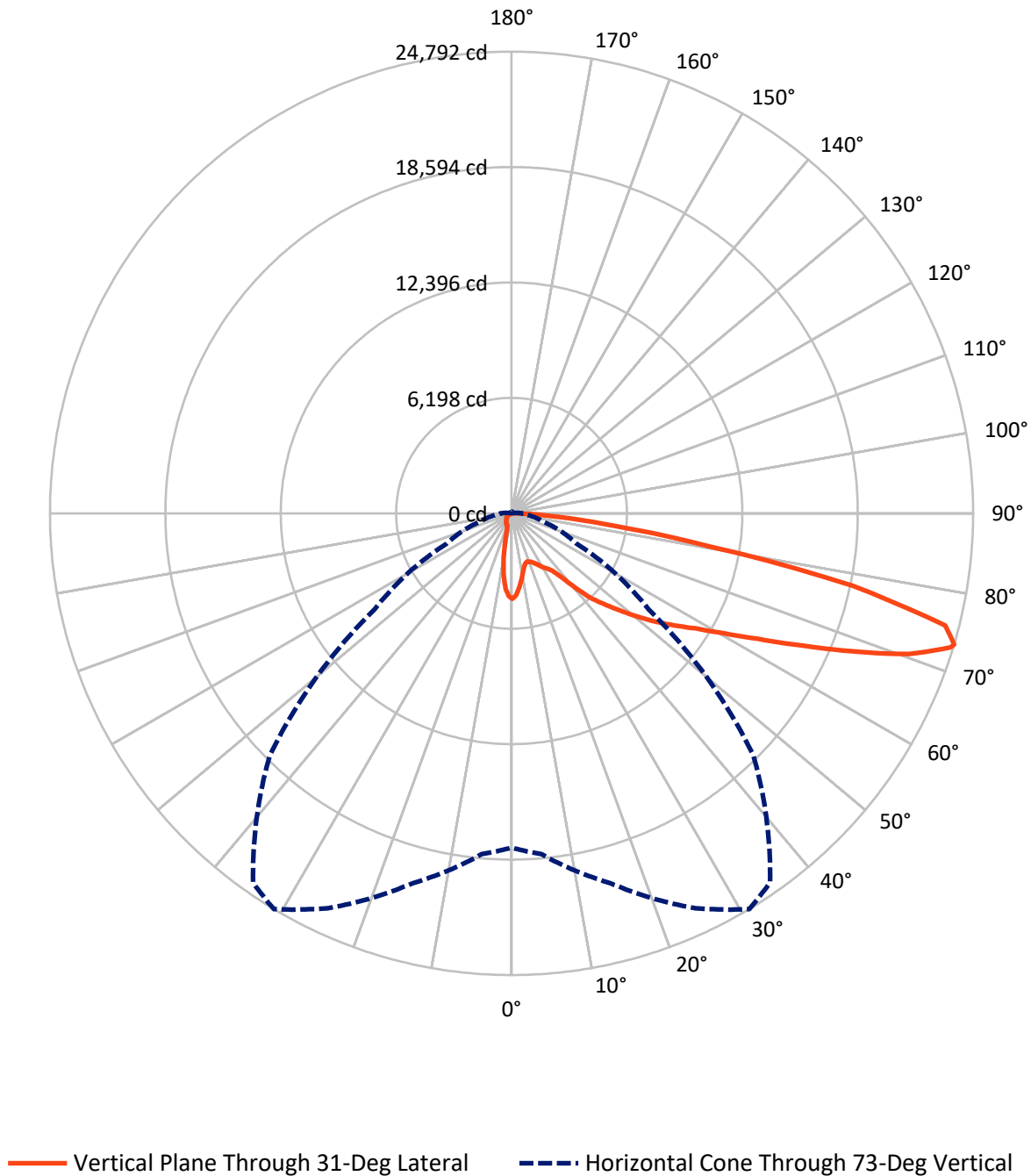
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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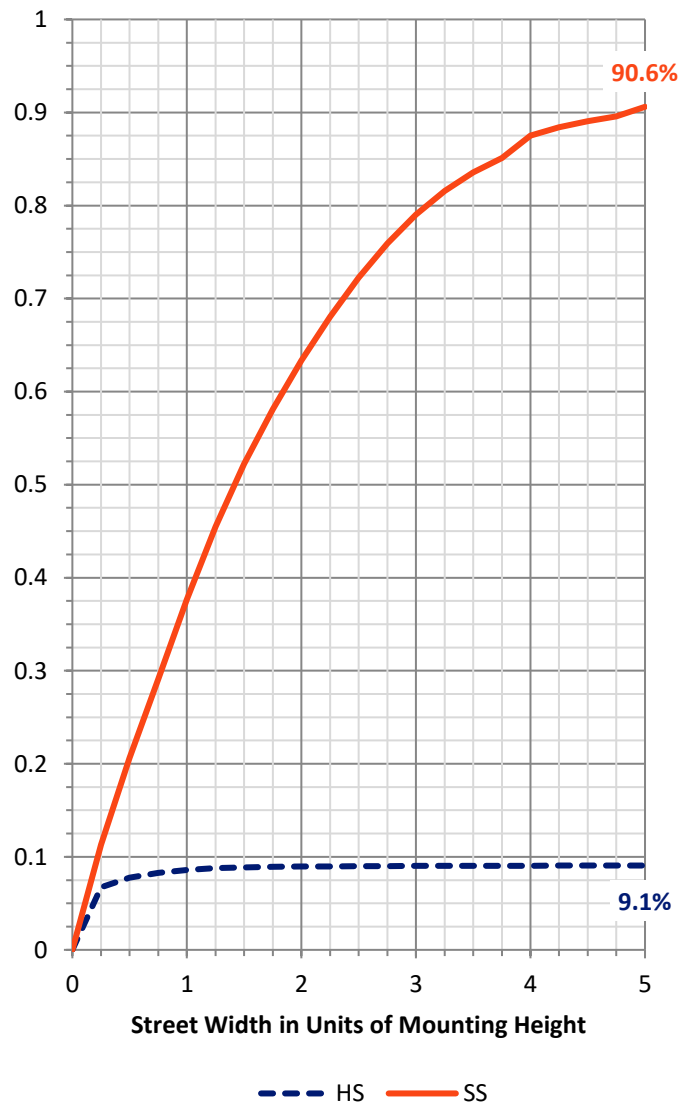
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2431.2	0.0	2431.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	24239.8	0.0	24239.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	26671.0	0.0	26671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.5	1.4
10°-20°	826.1	3.1
20°-30°	1237.8	4.6
30°-40°	1969.3	7.4
40°-50°	3516.6	13.2
50°-60°	5456.8	20.5
60°-70°	7254.1	27.2
70°-80°	5456.5	20.5
80°-90°	573.4	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°	26671.0	100.0
0°-180°	26671.0	100.0

Coefficient of Utilization



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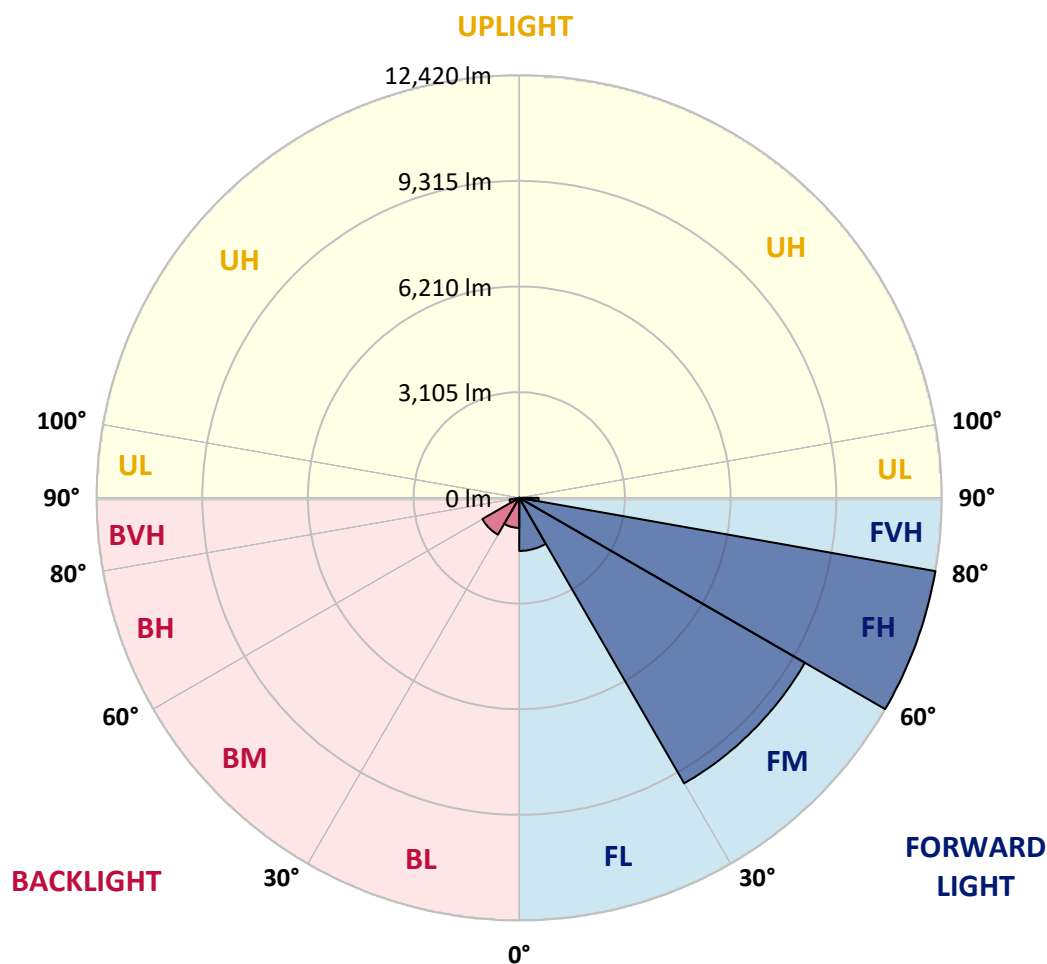
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1560.3	5.9			
FM	(30°-60°)	9691.3	36.3			
FH	(60°-80°)	12419.7	46.6			G5
FVH	(80°-90°)	568.5	2.1			G4/750
BL	(0°-30°)	884.1	3.3	B2/1000		
BM	(30°-60°)	1251.4	4.7	B2/2500		
BH	(60°-80°)	290.9	1.1	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8
2.5°	4348.7	4366.9	4386.5	4390.4	4423.1	4424.4	4471.3	4506.6	4541.8	4575.7	4587.5
5°	3902.3	3932.3	3967.6	4002.8	4072.0	4099.4	4214.2	4331.7	4443.9	4551.0	4603.2
7.5°	3425.9	3459.9	3509.5	3596.9	3673.9	3727.4	3908.8	4117.7	4326.5	4523.5	4637.1
10°	2991.3	3022.7	3074.9	3167.5	3286.3	3359.4	3603.4	3893.2	4199.9	4498.7	4688.0
12.5°	2714.6	2731.6	2760.3	2859.5	2966.5	3048.8	3335.9	3694.8	4095.5	4497.4	4770.2
15°	2663.7	2669.0	2645.5	2689.9	2773.4	2853.0	3144.0	3534.3	4015.9	4518.3	4877.2
17.5°	2744.7	2742.1	2663.7	2658.5	2725.1	2790.3	3050.1	3423.3	3959.7	4566.6	5015.6
20°	2867.3	2858.2	2722.5	2697.7	2768.2	2829.5	3043.5	3381.6	3938.9	4647.5	5183.9
22.5°	3030.5	3014.8	2802.1	2776.0	2851.7	2915.6	3124.5	3422.0	3957.1	4755.9	5379.7
25°	3232.8	3209.3	2939.1	2910.4	2987.4	3051.4	3269.3	3538.2	4011.9	4887.7	5627.7
27.5°	3461.2	3427.2	3158.4	3084.0	3171.4	3238.0	3462.5	3715.7	4098.1	5027.3	5931.8
30°	3676.5	3632.1	3389.4	3266.7	3373.7	3448.1	3671.3	3927.1	4236.4	5242.7	6348.1
32.5°	3893.2	3843.6	3595.6	3449.4	3546.0	3626.9	3886.6	4218.1	4496.1	5571.6	6901.5
35°	4391.7	4339.5	4035.4	3794.0	3792.7	3838.4	4188.1	4616.2	4839.4	6029.7	7561.9
37.5°	5230.9	5200.9	4911.2	4453.1	4330.4	4279.5	4599.2	5091.3	5332.7	6660.0	8307.1
40°	6149.7	6123.6	5798.6	5383.6	5197.0	5071.7	5189.2	5753.0	6029.7	7430.0	9068.0
42.5°	7187.3	7063.3	6483.8	6359.8	6192.8	6097.5	5991.8	6568.7	6885.8	8267.9	9822.3
45°	8129.6	7920.8	7169.0	6981.1	6943.2	6966.7	7025.5	7665.0	7849.0	9263.7	10574.1
47.5°	8690.8	8526.3	7949.5	7769.4	7758.9	7914.2	8358.0	8903.5	8808.3	10131.6	11235.8
50°	9224.6	9075.8	8596.8	8641.2	8689.5	8900.9	9870.6	10177.3	9684.0	10918.6	11842.7
52.5°	9656.6	9429.5	9178.9	9428.2	9665.7	10006.4	11431.5	11320.6	10305.2	11545.1	12362.1
55°	9905.9	9802.8	9924.1	10174.7	10621.1	11174.4	12905.0	12272.0	10759.4	12116.7	12707.9
57.5°	10819.4	10617.1	10858.6	11075.2	11657.3	12431.3	14167.1	12980.7	11087.0	12470.4	12787.6
60°	11924.9	11761.7	11904.0	12264.2	13049.9	13959.6	15346.9	13558.9	11258.0	12697.5	12581.4
62.5°	13684.2	13468.8	13380.1	13783.4	14824.9	15818.0	16242.2	13959.6	11220.1	12597.0	11874.0
65°	16041.2	15818.0	15421.3	15786.7	17111.4	17812.3	17243.2	14044.4	10959.1	11783.9	10086.0
67.5°	18455.7	18293.9	17954.5	18570.5	19766.0	19991.8	18301.7	13838.2	10118.6	9554.8	7126.0
70°	20050.6	19981.4	20201.9	21564.5	22630.8	22565.5	19272.7	12730.1	7886.8	5875.6	3525.1
72.5°	18900.7	19232.2	20861.0	23331.6	24634.1	24101.6	18774.1	9775.3	4507.9	2260.5	1019.3
73°	17948.0	18372.2	20564.8	23398.2	24792.1	24208.7	18355.2	8972.7	3842.3	1784.1	772.6
75°	12486.1	13006.8	17025.3	21791.6	24053.4	23065.4	15299.9	5491.9	1780.2	790.9	311.9
77.5°	6062.3	6447.3	9374.7	15745.0	18706.3	18021.1	9524.8	2046.4	804.0	494.6	143.6
80°	2263.1	2516.3	4069.4	8013.4	10810.3	11093.5	4189.4	773.9	535.1	398.1	73.1
82.5°	592.5	660.4	1500.9	3573.4	5540.2	5798.6	1320.8	390.2	391.5	327.6	44.4
85°	189.2	216.6	468.5	1604.0	2610.2	2291.8	344.6	189.2	284.5	244.1	24.8
87.5°	23.5	30.0	148.8	377.2	575.6	319.8	53.5	56.1	121.4	135.7	14.4
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°	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8	4588.8
2.5°	4599.2	4592.7	4594.0	4560.1	4537.9	4493.5	4447.8	4427.0	4404.8	4395.6	4404.8
5°	4622.7	4611.0	4577.1	4472.6	4361.7	4218.1	4083.7	3981.9	3854.0	3818.8	3855.3
7.5°	4659.3	4635.8	4536.6	4323.9	4077.2	3803.1	3495.1	3270.6	3086.6	2967.8	3010.9
10°	4712.8	4668.4	4468.7	4107.2	3666.1	3180.6	2743.4	2402.7	2161.3	2062.1	2058.2
12.5°	4802.8	4719.3	4385.2	3825.3	3163.6	2516.3	1943.3	1574.0	1378.2	1251.6	1249.0
15°	4902.0	4779.3	4279.5	3487.3	2578.9	1802.4	1251.6	971.0	844.4	804.0	798.7
17.5°	5023.4	4848.5	4142.4	3070.9	1966.8	1194.2	817.0	736.1	730.9	727.0	727.0
20°	5176.1	4930.7	3966.3	2594.6	1395.2	797.4	694.3	699.5	702.2	696.9	698.2
22.5°	5353.6	5014.3	3756.1	2083.0	943.6	666.9	664.3	670.8	673.4	670.8	672.1
25°	5559.8	5110.8	3500.3	1546.6	681.3	633.0	639.5	648.6	655.2	655.2	655.2
27.5°	5815.6	5228.3	3192.3	1079.3	588.6	597.7	616.0	633.0	642.1	644.7	644.7
30°	6148.4	5374.5	2823.0	740.0	535.1	550.8	584.7	617.3	634.3	636.9	638.2
32.5°	6568.7	5538.9	2394.9	546.8	489.4	501.2	537.7	592.5	625.2	630.4	630.4
35°	7050.3	5729.5	1934.2	476.4	456.8	460.7	489.4	552.1	609.5	623.8	625.2
37.5°	7577.5	5917.4	1470.9	445.0	429.4	429.4	450.3	503.8	571.6	616.0	621.2
40°	8069.6	6031.0	1031.0	420.2	404.6	404.6	422.9	462.0	526.0	592.5	606.9
42.5°	8523.7	6070.1	717.8	396.8	381.1	385.0	400.7	432.0	480.3	546.8	559.9
45°	8991.0	6063.6	523.4	369.3	357.6	369.3	381.1	404.6	439.8	477.7	480.3
47.5°	9343.4	6008.8	415.0	343.2	335.4	351.1	361.5	377.2	396.8	394.1	394.1
50°	9673.5	5875.6	334.1	308.0	313.2	331.5	336.7	341.9	343.2	318.4	315.8
52.5°	9924.1	5668.1	267.5	270.2	291.0	309.3	304.1	296.3	283.2	253.2	248.0
55°	10007.7	5268.8	210.1	223.2	258.4	281.9	262.3	245.4	220.6	195.8	190.5
57.5°	9856.3	4753.2	171.0	173.6	218.0	237.5	215.3	195.8	168.4	147.5	143.6
60°	9535.2	4180.3	141.0	130.5	168.4	185.3	171.0	151.4	126.6	110.9	109.6
62.5°	8898.3	3569.5	116.2	101.8	127.9	142.3	133.1	118.8	97.9	87.4	86.1
65°	7559.3	2855.6	94.0	82.2	99.2	110.9	103.1	92.7	77.0	69.2	67.9
67.5°	5276.6	1930.3	77.0	67.9	78.3	87.4	80.9	75.7	61.3	60.0	61.3
70°	2545.0	930.6	64.0	54.8	61.3	67.9	65.3	61.3	58.7	67.9	78.3
72.5°	729.6	311.9	50.9	45.7	49.6	53.5	56.1	54.8	64.0	82.2	95.3
73°	561.2	251.9	48.3	43.1	47.0	52.2	54.8	53.5	65.3	83.5	95.3
75°	240.1	121.4	36.5	35.2	39.2	45.7	48.3	48.3	65.3	84.8	91.4
77.5°	108.3	65.3	23.5	27.4	33.9	36.5	40.5	40.5	52.2	65.3	65.3
80°	61.3	35.2	18.3	20.9	24.8	24.8	24.8	22.2	23.5	26.1	28.7
82.5°	39.2	23.5	14.4	17.0	15.7	13.1	10.4	10.4	9.1	10.4	13.1
85°	22.2	13.1	13.1	10.4	6.5	5.2	6.5	5.2	1.3	0.0	1.3
87.5°	13.1	7.8	3.9	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)