

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: P323309

Luminaire Tested: **GAN-SA5A-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA 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: 14183 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

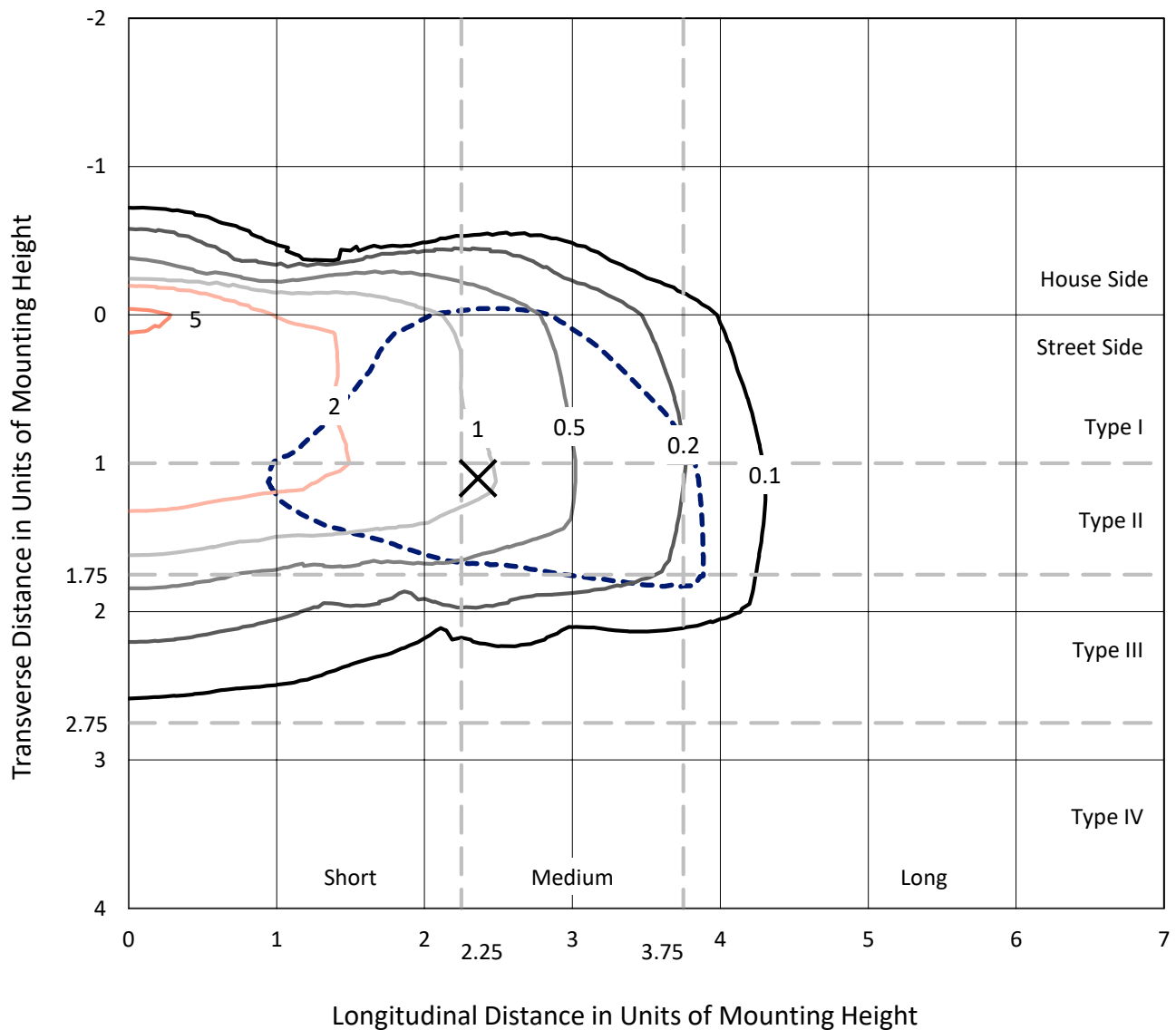
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

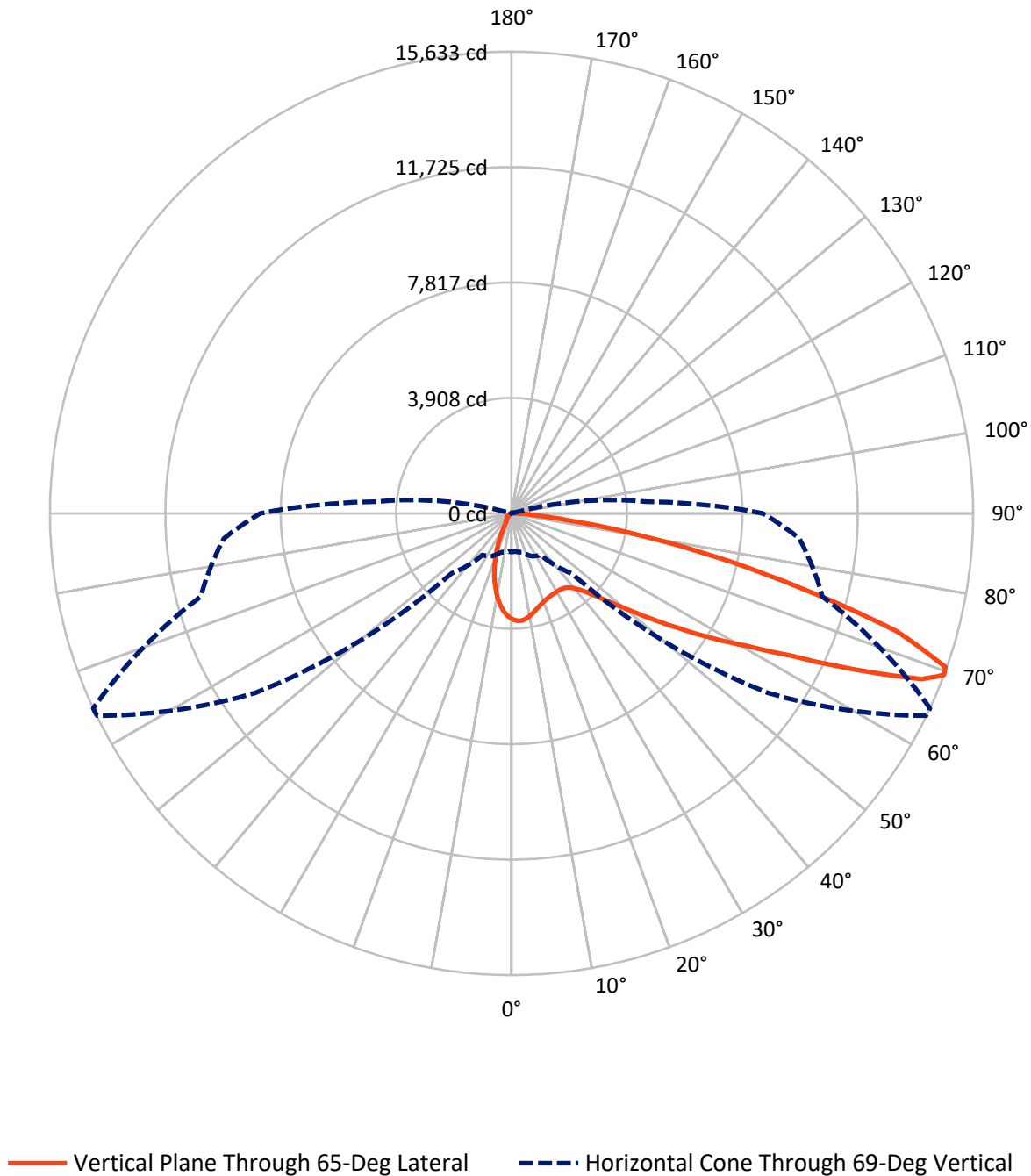
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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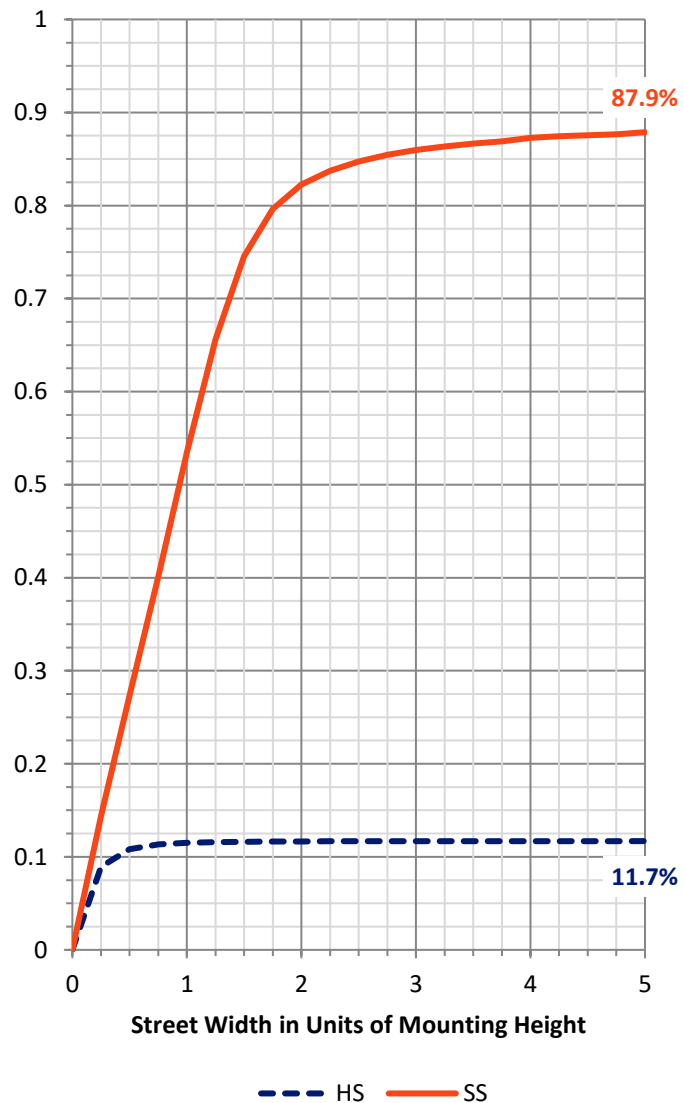
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1671.8	0.0	1671.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12511.2	0.0	12511.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	14183.0	0.0	14183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.7	2.1
10°-20°	656.1	4.6
20°-30°	908.7	6.4
30°-40°	1267.0	8.9
40°-50°	1969.3	13.9
50°-60°	3161.5	22.3
60°-70°	3576.2	25.2
70°-80°	2100.3	14.8
80°-90°	244.3	1.7
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°	14183.0	100.0
0°-180°	14183.0	100.0

Coefficient of Utilization



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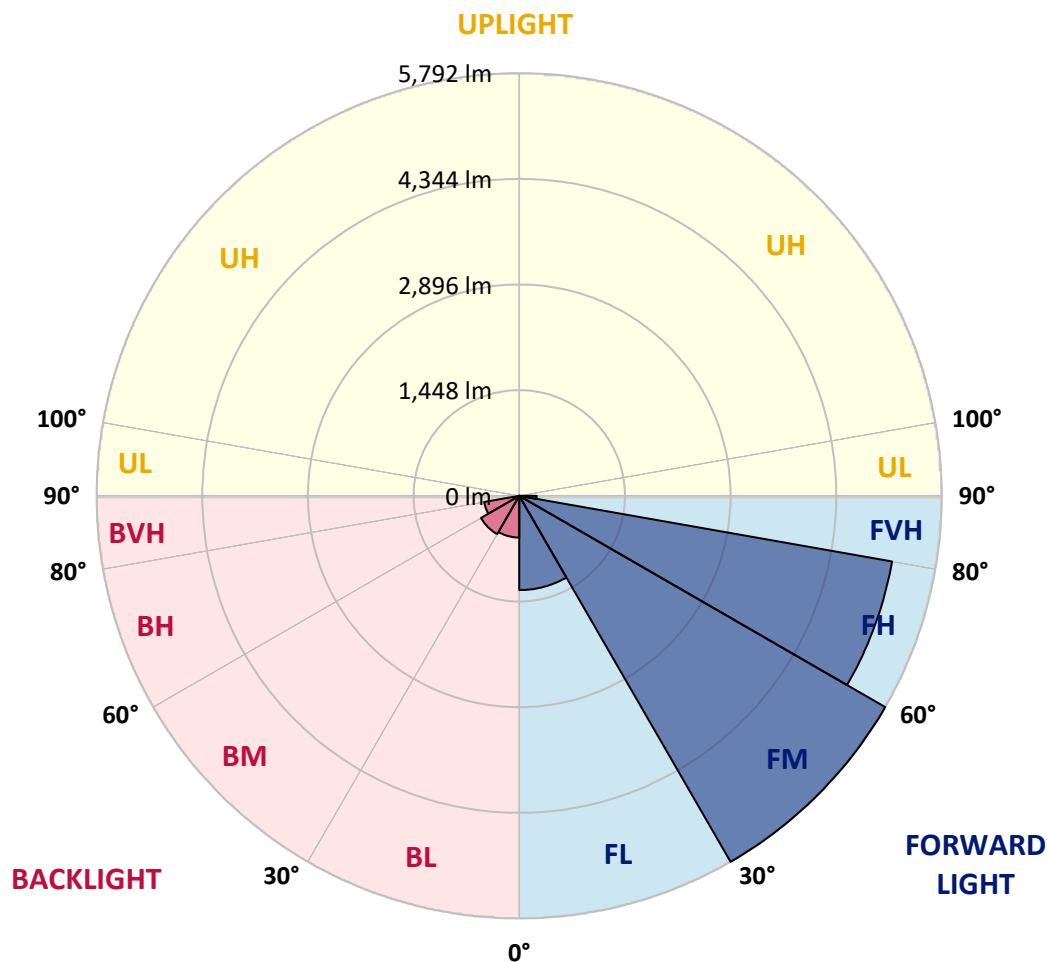
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1292.4	9.1			
FM	(30°-60°)	5791.9	40.8			
FH	(60°-80°)	5188.0	36.6			G3/7500
FVH	(80°-90°)	238.8	1.7			G3/500
BL	(0°-30°)	572.0	4.0	B2/1000		
BM	(30°-60°)	605.8	4.3	B1/1000		
BH	(60°-80°)	488.5	3.4	B1/500		G1/500
BVH	(80°-90°)	5.5	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1
2.5°	3615.9	3606.9	3614.1	3629.7	3637.5	3637.5	3643.5	3636.3	3638.7	3621.3	3596.1
5°	3389.6	3375.8	3395.6	3439.4	3493.4	3539.7	3608.1	3644.1	3647.7	3648.3	3618.9
7.5°	3146.0	3133.4	3162.8	3214.4	3284.0	3369.8	3489.2	3593.7	3599.7	3656.1	3634.5
10°	2947.9	2938.9	2973.1	3028.3	3110.0	3206.0	3352.4	3497.6	3515.1	3639.9	3632.1
12.5°	2790.7	2783.5	2815.9	2879.5	2962.9	3069.1	3222.2	3390.8	3414.2	3603.3	3620.1
15°	2676.0	2674.8	2701.9	2763.1	2855.5	2954.5	3111.2	3291.8	3318.8	3563.7	3618.3
17.5°	2616.0	2617.8	2637.6	2689.9	2769.1	2867.5	3017.5	3208.4	3237.8	3528.3	3627.3
20°	2610.0	2611.8	2622.6	2652.0	2716.3	2803.3	2941.3	3138.2	3168.8	3501.8	3641.7
22.5°	2662.8	2661.6	2664.6	2661.6	2697.7	2763.7	2890.9	3084.1	3119.6	3484.4	3653.1
25°	2764.3	2762.5	2761.3	2739.1	2715.1	2750.5	2869.9	3053.5	3087.1	3471.8	3659.7
27.5°	2905.3	2904.1	2902.3	2865.7	2793.7	2771.5	2872.3	3042.1	3070.3	3461.6	3658.5
30°	3090.7	3099.2	3096.8	3045.7	2933.5	2835.7	2897.5	3036.1	3060.7	3441.8	3645.9
32.5°	3308.6	3325.4	3338.6	3284.0	3143.6	2962.9	2955.7	3042.7	3060.7	3426.8	3623.1
35°	3534.9	3556.5	3605.1	3585.9	3401.0	3154.4	3055.9	3082.3	3097.4	3435.2	3612.3
37.5°	3757.5	3783.3	3888.9	3944.8	3738.3	3407.6	3212.0	3180.2	3188.0	3486.2	3624.3
40°	4016.2	4055.2	4215.4	4305.4	4141.0	3746.7	3445.4	3348.2	3351.2	3598.5	3680.1
42.5°	4355.9	4396.1	4569.5	4710.5	4594.7	4175.2	3762.3	3605.1	3602.1	3808.5	3811.5
45°	4770.0	4812.0	4991.4	5148.0	5095.8	4682.9	4168.0	3980.2	3976.6	4139.8	4060.6
47.5°	5239.3	5280.7	5440.9	5602.4	5658.8	5275.9	4684.7	4492.1	4483.7	4600.1	4445.3
50°	5642.0	5669.0	5816.6	6033.9	6288.3	6004.5	5327.5	5142.0	5133.0	5211.7	5010.0
52.5°	5788.4	5804.0	5954.0	6258.3	6893.3	6991.1	6171.9	5933.0	5926.4	5960.6	5762.0
55°	5491.9	5520.1	5704.4	6155.7	7221.0	8106.2	7237.8	6912.5	6862.7	6788.8	6548.2
57.5°	4684.1	4729.1	4927.2	5527.3	7067.9	8990.8	8804.1	8020.3	7947.1	7495.8	7187.3
60°	3509.7	3564.9	3729.3	4376.9	6251.1	9305.9	10515.7	9254.8	9089.8	8058.8	7774.9
62.5°	2408.4	2436.0	2547.6	2969.5	4603.7	8789.7	11947.7	10908.2	10607.0	8670.9	8410.4
65°	1839.4	1849.0	1894.7	2039.9	2741.5	7139.9	12517.2	13089.8	12725.5	9403.1	9070.0
67.5°	1482.4	1474.6	1537.6	1745.2	1835.8	4355.9	11852.9	15153.7	14983.2	10381.9	9733.8
69°	1307.1	1296.3	1360.5	1601.8	1724.2	2879.5	10596.2	15622.4	15633.2	10898.6	9779.4
70°	1176.3	1183.5	1247.1	1516.6	1686.4	2260.1	9395.9	15503.0	15588.2	11091.9	9505.7
72.5°	785.6	804.8	932.6	1259.1	1621.6	1710.4	5673.2	13303.4	13631.1	10656.8	8155.4
75°	442.9	457.3	609.1	949.4	1528.0	1628.8	2996.5	9801.0	10117.9	8911.6	6288.9
77.5°	217.3	225.1	344.5	612.7	1277.7	1552.0	1699.6	6657.4	7019.3	5816.6	3557.1
80°	91.8	96.0	172.2	378.1	913.4	1481.2	1262.1	4097.2	4142.2	2278.8	947.6
82.5°	35.4	36.6	72.6	235.9	580.3	1154.7	1055.7	1942.7	1895.9	429.1	216.1
85°	4.2	4.8	26.4	141.6	322.9	594.1	857.6	837.2	774.8	85.2	111.0
87.5°	0.0	0.0	1.8	43.2	96.0	278.5	445.9	347.5	313.3	27.6	57.6
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°	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1	3584.1
2.5°	3575.1	3569.1	3536.7	3489.8	3445.4	3390.2	3337.4	3305.6	3280.4	3263.6	3283.4
5°	3584.7	3558.3	3459.8	3333.8	3210.2	3070.9	2941.3	2831.5	2788.3	2740.3	2761.9
7.5°	3581.7	3531.9	3354.8	3130.4	2903.5	2668.8	2446.8	2275.8	2186.9	2099.9	2122.1
10°	3566.7	3482.6	3214.4	2881.9	2542.2	2204.9	1889.9	1650.4	1516.6	1395.3	1412.7
12.5°	3533.7	3416.6	3048.7	2597.4	2143.1	1698.4	1329.3	1022.6	858.2	785.6	794.6
15°	3513.9	3352.4	2873.5	2309.4	1717.0	1182.9	812.6	604.3	529.3	505.3	508.3
17.5°	3504.2	3290.6	2692.3	1979.9	1281.3	753.2	525.1	463.3	447.1	442.9	444.1
20°	3494.6	3228.2	2505.6	1654.0	882.8	506.5	431.5	413.5	407.5	402.1	403.3
22.5°	3478.4	3168.2	2305.2	1323.9	595.3	411.1	388.9	371.5	358.9	352.3	353.5
25°	3458.6	3105.2	2100.5	986.0	434.5	366.7	345.7	321.1	306.1	294.1	294.7
27.5°	3426.8	3027.7	1889.3	717.8	364.9	328.3	300.1	273.1	247.9	234.1	234.1
30°	3382.4	2940.1	1654.6	513.7	327.1	290.5	256.3	222.7	195.6	183.0	181.8
32.5°	3333.2	2848.9	1417.5	389.5	297.1	255.1	216.1	180.6	156.6	146.4	145.8
35°	3291.2	2750.5	1181.1	326.5	267.1	220.9	178.2	148.2	129.0	120.6	120.0
37.5°	3264.2	2652.0	950.6	291.7	240.1	189.0	149.4	122.4	108.6	102.0	101.4
40°	3260.0	2578.8	740.0	265.3	214.9	160.8	124.8	103.8	91.2	84.0	83.4
42.5°	3314.6	2536.8	567.7	243.1	189.0	136.2	106.2	88.8	75.6	68.4	67.8
45°	3458.0	2550.0	436.9	223.3	163.2	115.2	90.0	73.8	61.8	56.4	55.2
47.5°	3719.7	2641.2	347.5	203.4	138.6	97.8	76.8	61.2	51.0	45.6	45.0
50°	4185.4	2855.5	290.5	181.8	115.8	83.4	63.6	49.8	41.4	36.6	36.0
52.5°	4803.6	3237.2	259.3	160.8	96.0	70.8	52.2	39.6	32.4	28.8	28.2
55°	5485.3	3699.3	238.9	138.0	78.6	58.8	41.4	31.2	25.2	22.2	21.0
57.5°	6150.9	4099.6	219.7	115.8	65.4	48.0	33.0	24.6	19.8	16.8	16.2
60°	6762.4	4467.5	197.4	93.0	53.4	37.8	25.8	19.2	15.6	12.6	12.6
62.5°	7417.2	4752.0	166.8	72.6	43.8	28.8	21.0	17.4	12.6	10.8	10.2
65°	8111.0	4963.2	130.8	56.4	34.2	21.6	17.4	18.0	10.2	7.8	7.2
67.5°	8623.5	4921.2	96.6	44.4	26.4	16.8	16.8	19.2	9.0	6.0	5.4
69°	8510.7	4579.7	81.0	38.4	22.8	14.4	15.6	19.2	8.4	5.4	4.8
70°	8183.6	4201.6	71.4	34.2	20.4	13.2	15.0	18.6	7.8	5.4	4.8
72.5°	6815.3	3164.6	55.8	25.8	16.2	10.8	12.6	16.2	7.8	5.4	4.2
75°	5126.4	2025.5	42.6	18.6	12.0	8.4	9.6	12.0	7.8	4.8	4.2
77.5°	2789.5	730.4	30.6	12.6	8.4	6.6	6.6	9.0	7.2	3.6	2.4
80°	717.2	183.6	19.2	8.4	6.6	4.8	4.2	6.0	4.2	0.6	0.0
82.5°	177.0	41.4	10.2	6.0	4.8	1.8	1.8	3.0	1.8	0.0	0.0
85°	97.2	20.4	6.6	4.2	2.4	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	49.8	6.0	1.8	1.2	0.6	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)