

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: P323318

Luminaire Tested: **GAN-SA4B-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323318
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-SA4B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA 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: 14036 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

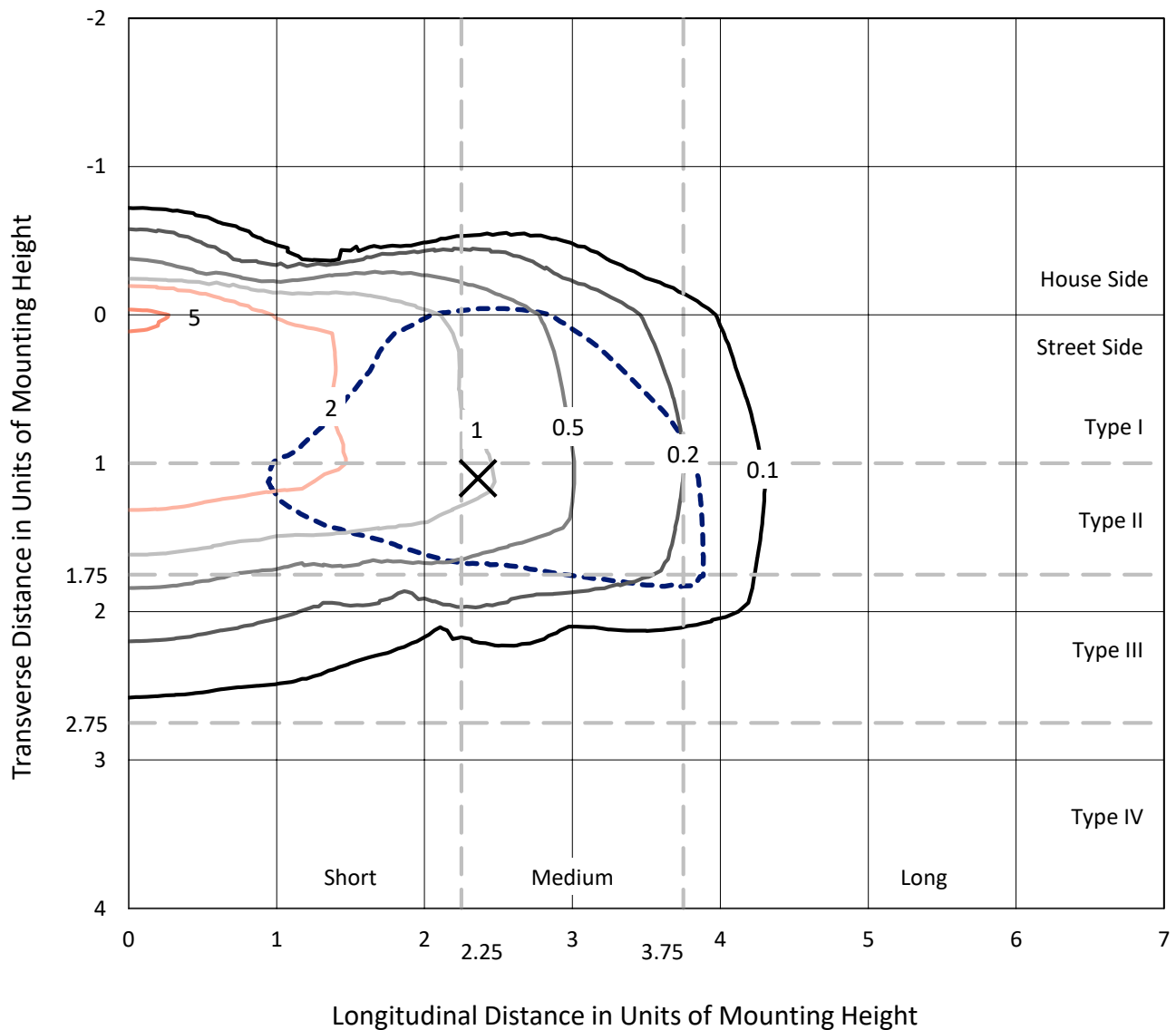
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

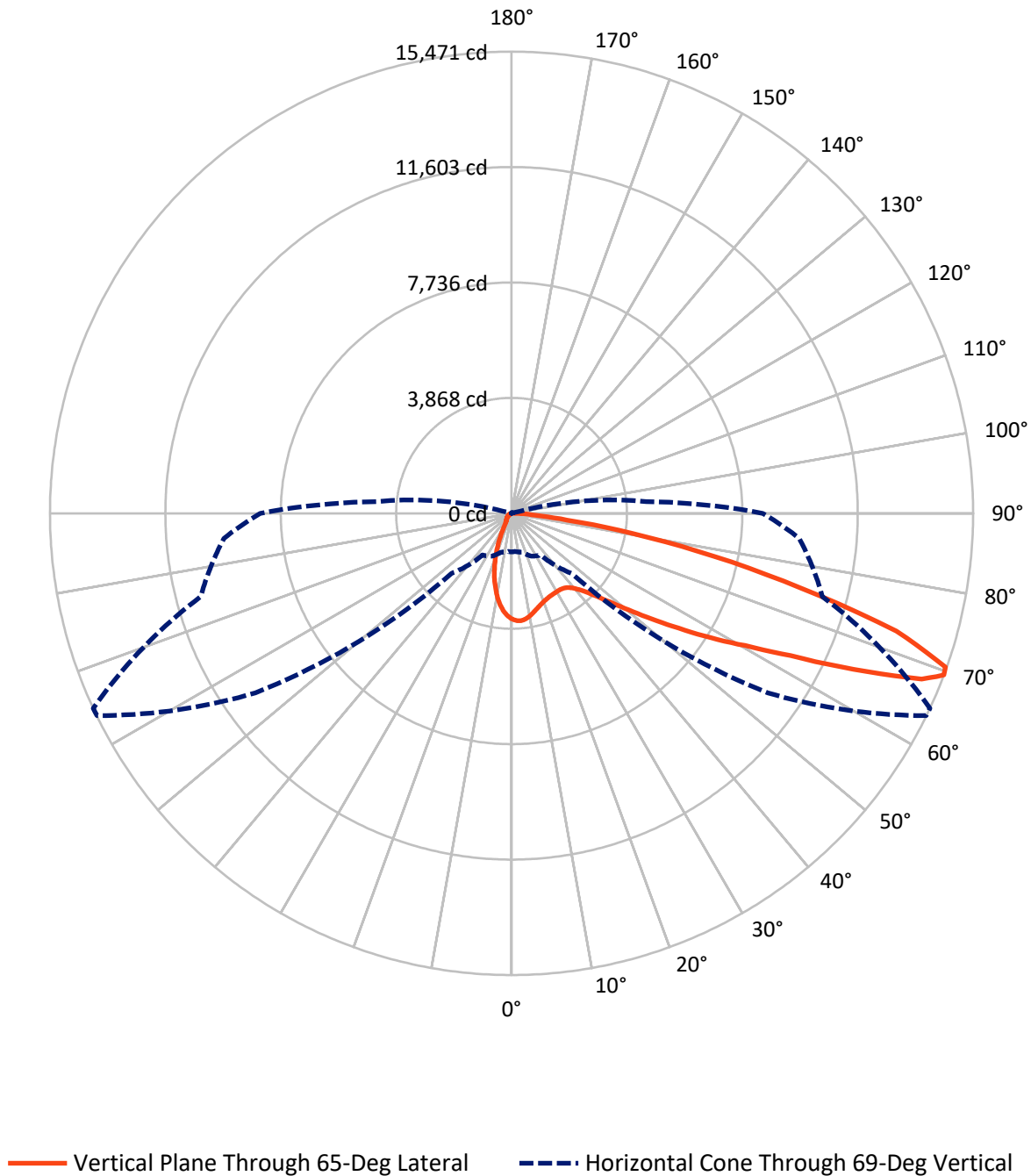
✕ Max cd
 - - - 1/2 Max cd



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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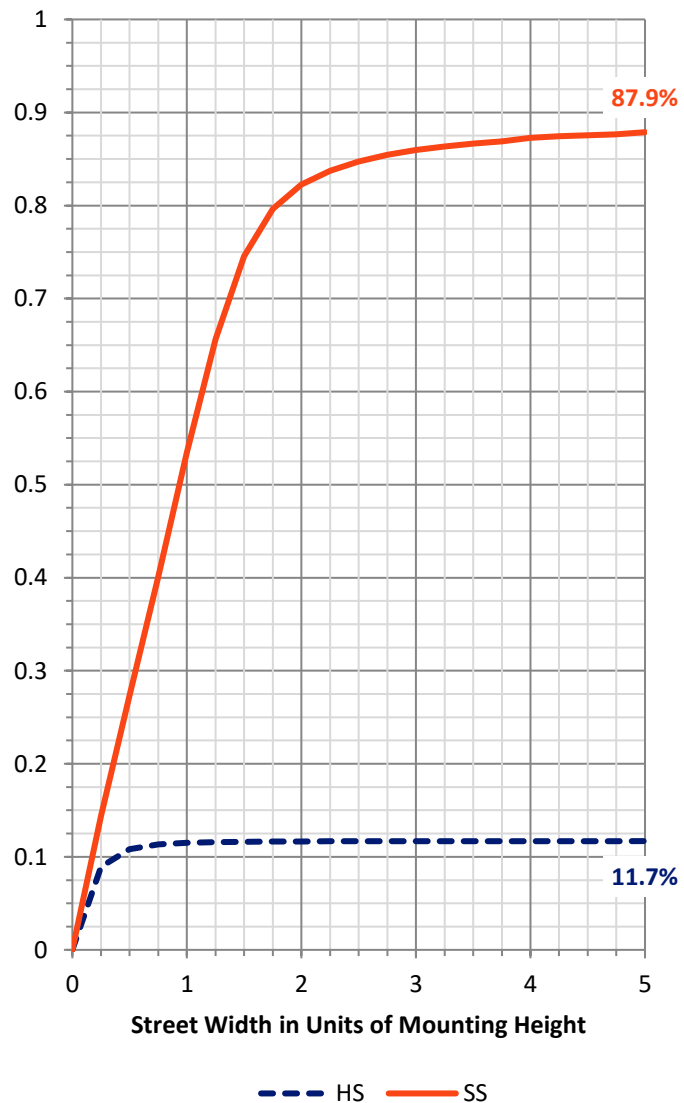
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1654.5	0.0	1654.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12381.5	0.0	12381.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	14036.0	0.0	14036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	2.1
10°-20°	649.3	4.6
20°-30°	899.3	6.4
30°-40°	1253.8	8.9
40°-50°	1948.9	13.9
50°-60°	3128.7	22.3
60°-70°	3539.1	25.2
70°-80°	2078.5	14.8
80°-90°	241.8	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°	14036.0	100.0
0°-180°	14036.0	100.0

Coefficient of Utilization



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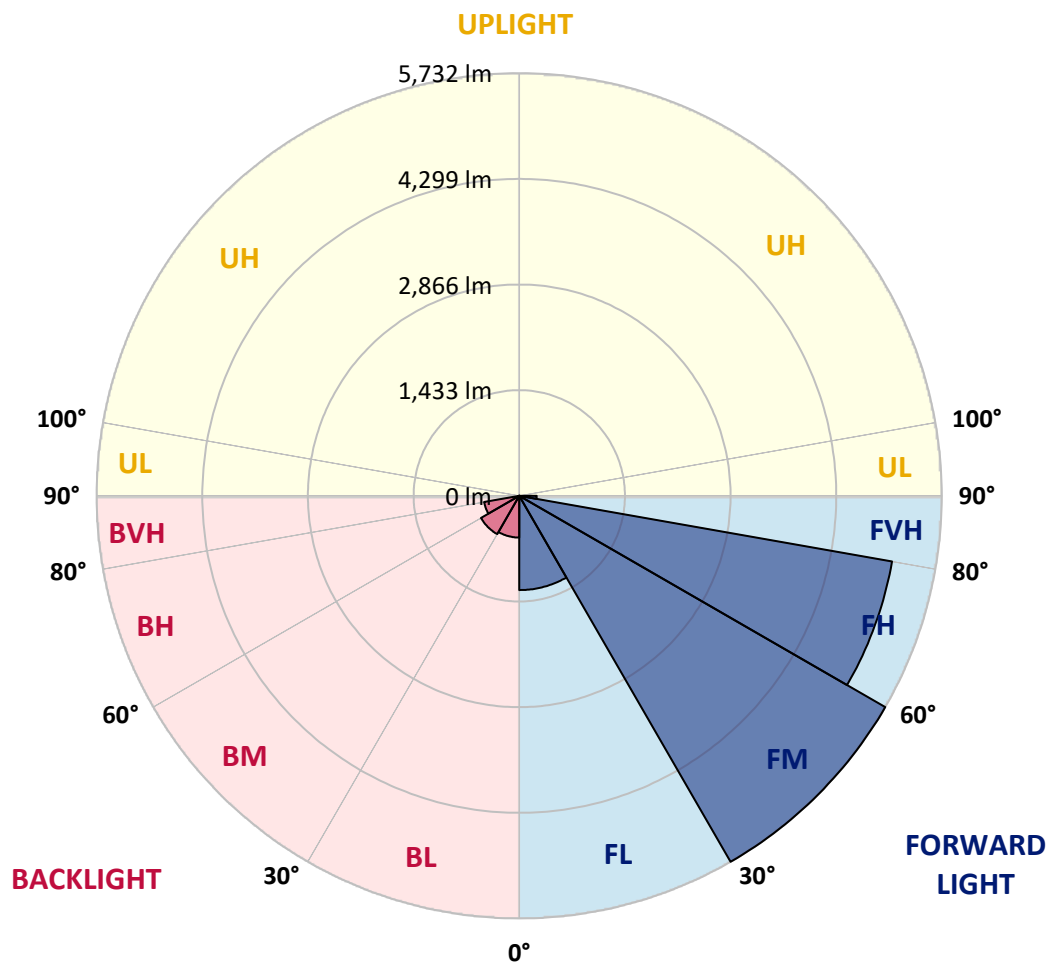
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1279.0	9.1			
FM	(30°-60°)	5731.9	40.8			
FH	(60°-80°)	5134.2	36.6			G3/7500
FVH	(80°-90°)	236.4	1.7			G3/500
BL	(0°-30°)	566.1	4.0	B2/1000		
BM	(30°-60°)	599.6	4.3	B1/1000		
BH	(60°-80°)	483.4	3.4	B1/500		G1/500
BVH	(80°-90°)	5.4	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°	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9
2.5°	3578.4	3569.5	3576.6	3592.1	3599.8	3599.8	3605.7	3598.6	3601.0	3583.7	3558.8
5°	3354.5	3340.8	3360.4	3403.8	3457.2	3503.0	3570.7	3606.3	3609.9	3610.5	3581.4
7.5°	3113.4	3100.9	3130.0	3181.1	3250.0	3334.9	3453.1	3556.4	3562.4	3618.2	3596.8
10°	2917.4	2908.5	2942.3	2996.9	3077.7	3172.7	3317.7	3461.4	3478.6	3602.2	3594.4
12.5°	2761.8	2754.6	2786.7	2849.7	2932.2	3037.3	3188.8	3355.7	3378.8	3565.9	3582.6
15°	2648.3	2647.1	2673.9	2734.4	2825.9	2923.9	3078.9	3257.7	3284.4	3526.7	3580.8
17.5°	2588.9	2590.7	2610.3	2662.0	2740.4	2837.8	2986.3	3175.1	3204.2	3491.7	3589.7
20°	2583.0	2584.8	2595.5	2624.6	2688.1	2774.2	2910.8	3105.6	3135.9	3465.6	3603.9
22.5°	2635.2	2634.1	2637.0	2634.1	2669.7	2735.0	2860.9	3052.2	3087.2	3448.3	3615.2
25°	2735.6	2733.8	2732.7	2710.7	2686.9	2722.0	2840.2	3021.9	3055.2	3435.9	3621.8
27.5°	2875.2	2874.0	2872.2	2836.0	2764.7	2742.7	2842.5	3010.6	3038.5	3425.8	3620.6
30°	3058.7	3067.0	3064.7	3014.2	2903.1	2806.3	2867.5	3004.7	3029.0	3406.2	3608.1
32.5°	3274.3	3290.9	3304.0	3250.0	3111.0	2932.2	2925.1	3011.2	3029.0	3391.3	3585.5
35°	3498.2	3519.6	3567.7	3548.7	3365.8	3121.7	3024.3	3050.4	3065.2	3399.6	3574.8
37.5°	3718.6	3744.1	3848.6	3903.9	3699.6	3372.3	3178.7	3147.2	3154.9	3450.1	3586.7
40°	3974.5	4013.2	4171.7	4260.8	4098.1	3707.9	3409.7	3313.5	3316.5	3561.2	3641.9
42.5°	4310.7	4350.5	4522.1	4661.7	4547.1	4131.9	3723.3	3567.7	3564.7	3769.0	3772.0
45°	4720.5	4762.1	4939.7	5094.7	5043.0	4634.4	4124.8	3938.9	3935.3	4096.9	4018.5
47.5°	5185.0	5225.9	5384.5	5544.3	5600.1	5221.2	4636.2	4445.5	4437.2	4552.4	4399.2
50°	5583.5	5610.2	5756.3	5971.3	6223.1	5942.2	5272.3	5088.8	5079.8	5157.6	4958.1
52.5°	5728.4	5743.9	5892.3	6193.5	6821.8	6918.6	6107.9	5871.5	5865.0	5898.9	5702.3
55°	5435.0	5462.9	5645.3	6091.9	7146.1	8022.1	7162.7	6840.8	6791.5	6718.5	6480.3
57.5°	4635.6	4680.1	4876.1	5470.1	6994.7	8897.6	8712.9	7937.2	7864.8	7418.1	7112.8
60°	3473.3	3527.9	3690.7	4331.5	6186.3	9209.4	10406.8	9158.9	8995.6	7975.2	7694.3
62.5°	2383.4	2410.7	2521.2	2938.7	4556.0	8698.6	11823.9	10795.2	10497.0	8581.0	8323.3
65°	1820.4	1829.9	1875.0	2018.8	2713.1	7065.9	12387.5	12954.1	12593.6	9305.6	8976.0
67.5°	1467.0	1459.3	1521.6	1727.1	1816.8	4310.7	11730.0	14996.6	14827.9	10274.3	9632.9
69°	1293.6	1282.9	1346.4	1585.2	1706.3	2849.7	10486.3	15460.5	15471.2	10785.7	9678.0
70°	1164.1	1171.2	1234.2	1500.8	1668.9	2236.7	9298.5	15342.3	15426.6	10976.9	9407.2
72.5°	777.4	796.5	923.0	1246.1	1604.8	1692.7	5614.4	13165.5	13489.8	10546.3	8070.9
75°	438.3	452.6	602.8	939.6	1512.1	1611.9	2965.5	9699.4	10013.0	8819.2	6223.7
77.5°	215.0	222.7	340.9	606.4	1264.5	1535.9	1682.0	6588.4	6946.6	5756.3	3520.2
80°	90.9	95.0	170.5	374.2	904.0	1465.8	1249.0	4054.7	4099.3	2255.1	937.8
82.5°	35.0	36.2	71.9	233.4	574.3	1142.7	1044.7	1922.5	1876.2	424.7	213.8
85°	4.2	4.8	26.1	140.2	319.5	588.0	848.7	828.5	766.8	84.3	109.9
87.5°	0.0	0.0	1.8	42.8	95.0	275.6	441.3	343.9	310.0	27.3	57.0
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°	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9	3546.9
2.5°	3538.0	3532.1	3500.0	3453.7	3409.7	3355.1	3302.8	3271.3	3246.4	3229.8	3249.4
5°	3547.5	3521.4	3424.0	3299.3	3176.9	3039.1	2910.8	2802.1	2759.4	2711.9	2733.2
7.5°	3544.5	3495.3	3320.0	3097.9	2873.4	2641.2	2421.4	2252.2	2164.3	2078.1	2100.1
10°	3529.7	3446.5	3181.1	2852.0	2515.9	2182.1	1870.3	1633.3	1500.8	1380.9	1398.1
12.5°	3497.0	3381.2	3017.1	2570.5	2120.9	1680.8	1315.5	1012.0	849.3	777.4	786.4
15°	3477.4	3317.7	2843.7	2285.4	1699.2	1170.6	804.2	598.1	523.8	500.1	503.1
17.5°	3467.9	3256.5	2664.3	1959.4	1268.0	745.4	519.7	458.5	442.5	438.3	439.5
20°	3458.4	3194.7	2479.6	1636.9	873.7	501.3	427.0	409.2	403.3	397.9	399.1
22.5°	3442.4	3135.3	2281.3	1310.2	589.2	406.8	384.9	367.6	355.2	348.6	349.8
25°	3422.8	3073.0	2078.7	975.8	430.0	362.9	342.1	317.8	302.9	291.0	291.6
27.5°	3391.3	2996.4	1869.7	710.3	361.1	324.9	297.0	270.2	245.3	231.6	231.6
30°	3347.4	2909.6	1637.5	508.4	323.7	287.5	253.6	220.3	193.6	181.1	180.0
32.5°	3298.7	2819.4	1402.9	385.5	294.0	252.4	213.8	178.8	155.0	144.9	144.3
35°	3257.1	2722.0	1168.8	323.1	264.3	218.6	176.4	146.7	127.7	119.4	118.8
37.5°	3230.4	2624.6	940.8	288.6	237.6	187.1	147.9	121.2	107.5	101.0	100.4
40°	3226.2	2552.1	732.3	262.5	212.6	159.2	123.5	102.7	90.3	83.1	82.6
42.5°	3280.2	2510.5	561.9	240.5	187.1	134.8	105.1	87.9	74.8	67.7	67.1
45°	3422.2	2523.6	432.4	220.9	161.5	114.0	89.1	73.1	61.2	55.8	54.6
47.5°	3681.1	2613.9	343.9	201.3	137.2	96.8	76.0	60.6	50.5	45.1	44.5
50°	4142.0	2825.9	287.5	180.0	114.6	82.6	63.0	49.3	41.0	36.2	35.6
52.5°	4753.8	3203.6	256.6	159.2	95.0	70.1	51.7	39.2	32.1	28.5	27.9
55°	5428.5	3661.0	236.4	136.6	77.8	58.2	41.0	30.9	24.9	22.0	20.8
57.5°	6087.1	4057.1	217.4	114.6	64.7	47.5	32.7	24.4	19.6	16.6	16.0
60°	6692.4	4421.2	195.4	92.1	52.9	37.4	25.5	19.0	15.4	12.5	12.5
62.5°	7340.3	4702.7	165.1	71.9	43.4	28.5	20.8	17.2	12.5	10.7	10.1
65°	8026.9	4911.8	129.5	55.8	33.9	21.4	17.2	17.8	10.1	7.7	7.1
67.5°	8534.1	4870.2	95.6	44.0	26.1	16.6	16.6	19.0	8.9	5.9	5.3
69°	8422.5	4532.2	80.2	38.0	22.6	14.3	15.4	19.0	8.3	5.3	4.8
70°	8098.8	4158.1	70.7	33.9	20.2	13.1	14.8	18.4	7.7	5.3	4.8
72.5°	6744.6	3131.8	55.2	25.5	16.0	10.7	12.5	16.0	7.7	5.3	4.2
75°	5073.3	2004.5	42.2	18.4	11.9	8.3	9.5	11.9	7.7	4.8	4.2
77.5°	2760.6	722.8	30.3	12.5	8.3	6.5	6.5	8.9	7.1	3.6	2.4
80°	709.7	181.7	19.0	8.3	6.5	4.8	4.2	5.9	4.2	0.6	0.0
82.5°	175.2	41.0	10.1	5.9	4.8	1.8	1.8	3.0	1.8	0.0	0.0
85°	96.2	20.2	6.5	4.2	2.4	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	49.3	5.9	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)