

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: P323337

Luminaire Tested: **GAN-SA3D-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323337
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-SA3D-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA 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: 14424 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

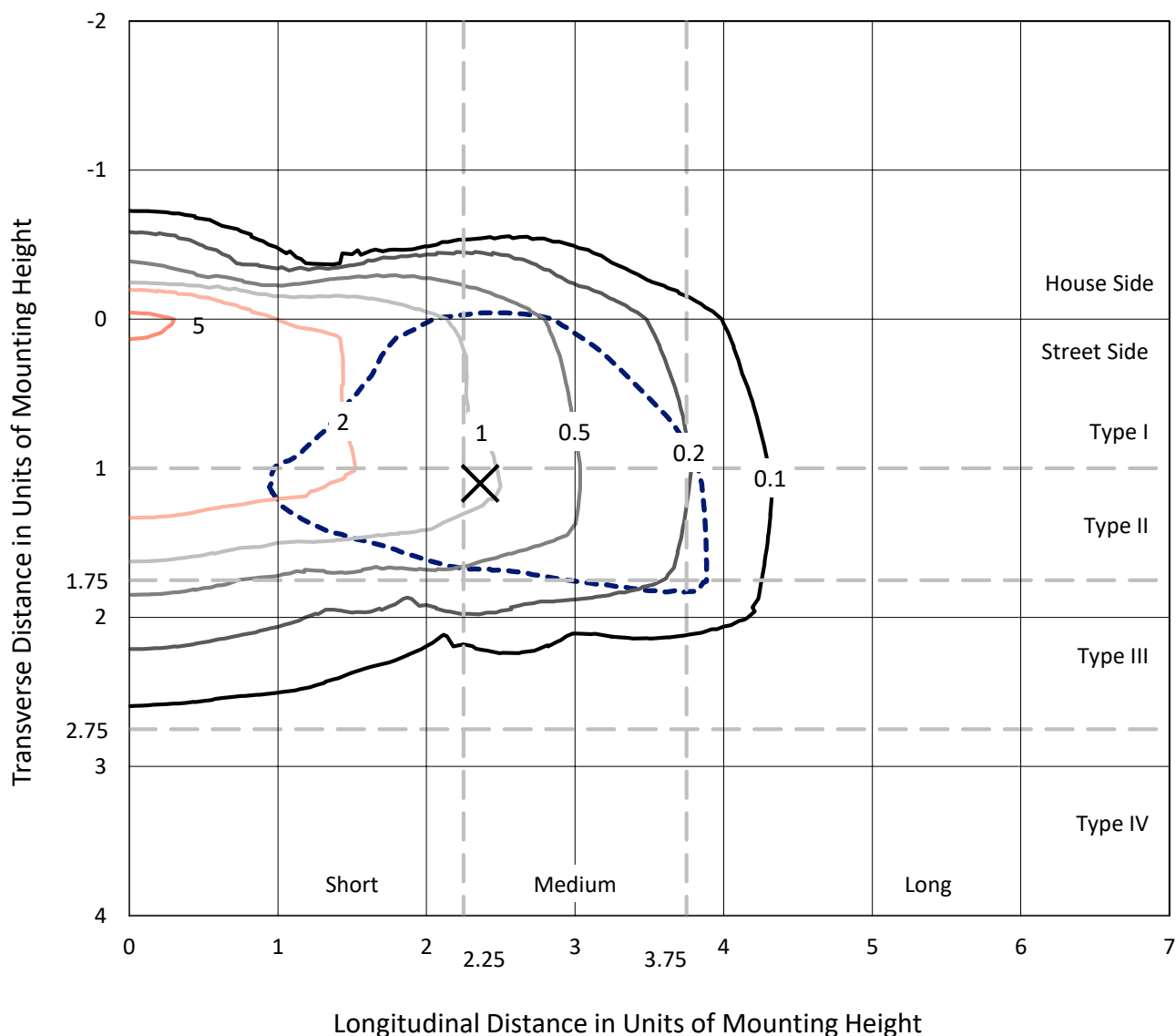
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

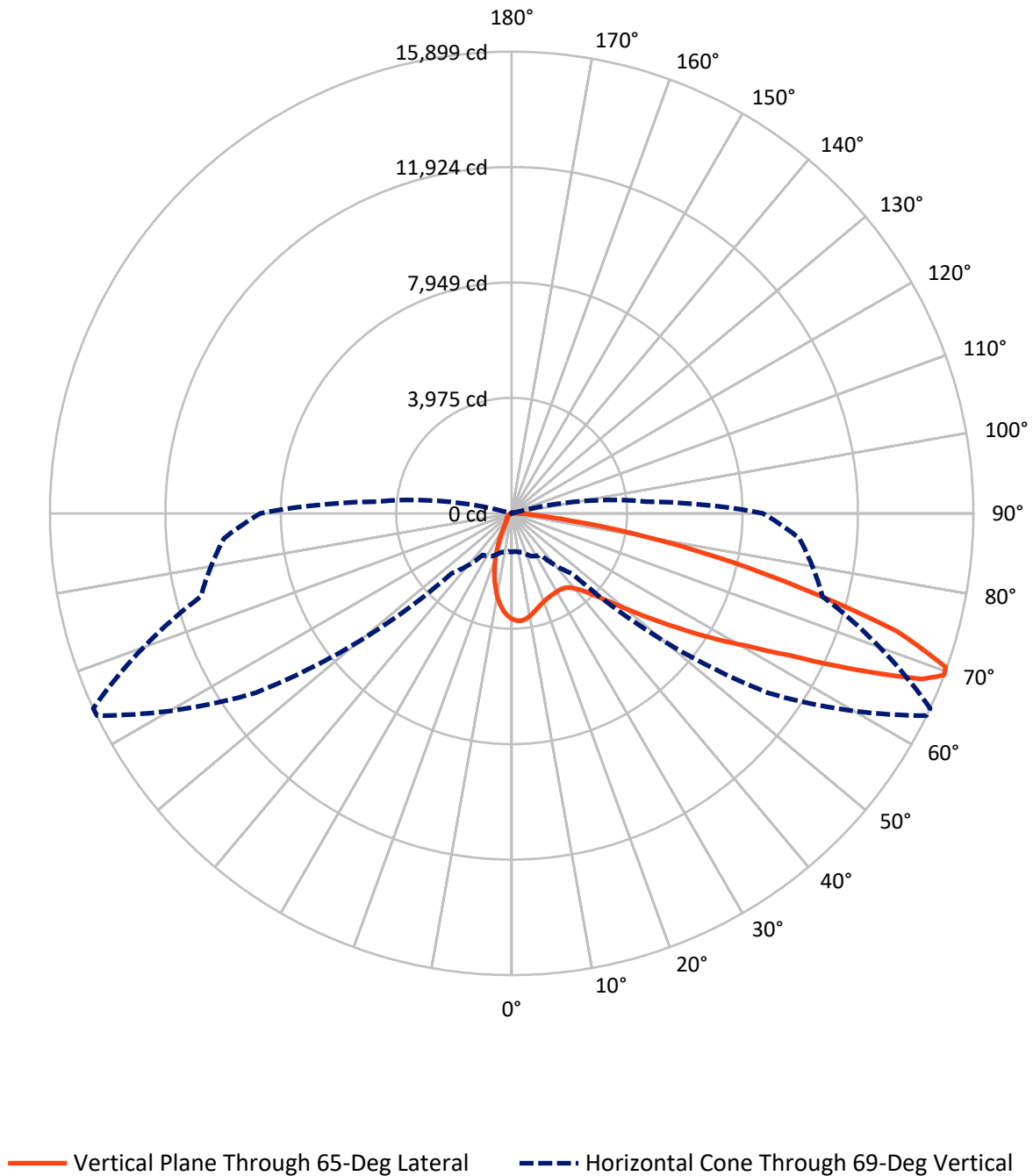
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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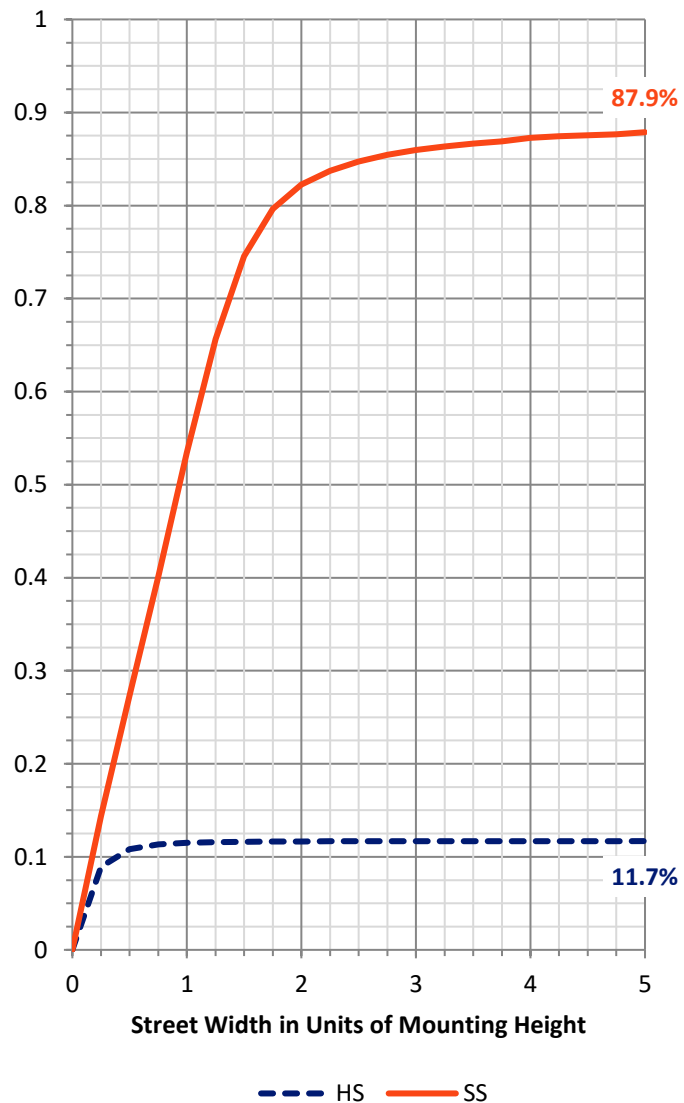
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1700.3	0.0	1700.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12723.8	0.0	12723.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	14424.0	0.0	14424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	2.1
10°-20°	667.2	4.6
20°-30°	924.1	6.4
30°-40°	1288.5	8.9
40°-50°	2002.8	13.9
50°-60°	3215.2	22.3
60°-70°	3636.9	25.2
70°-80°	2136.0	14.8
80°-90°	248.5	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°	14424.0	100.0
0°-180°	14424.0	100.0

Coefficient of Utilization



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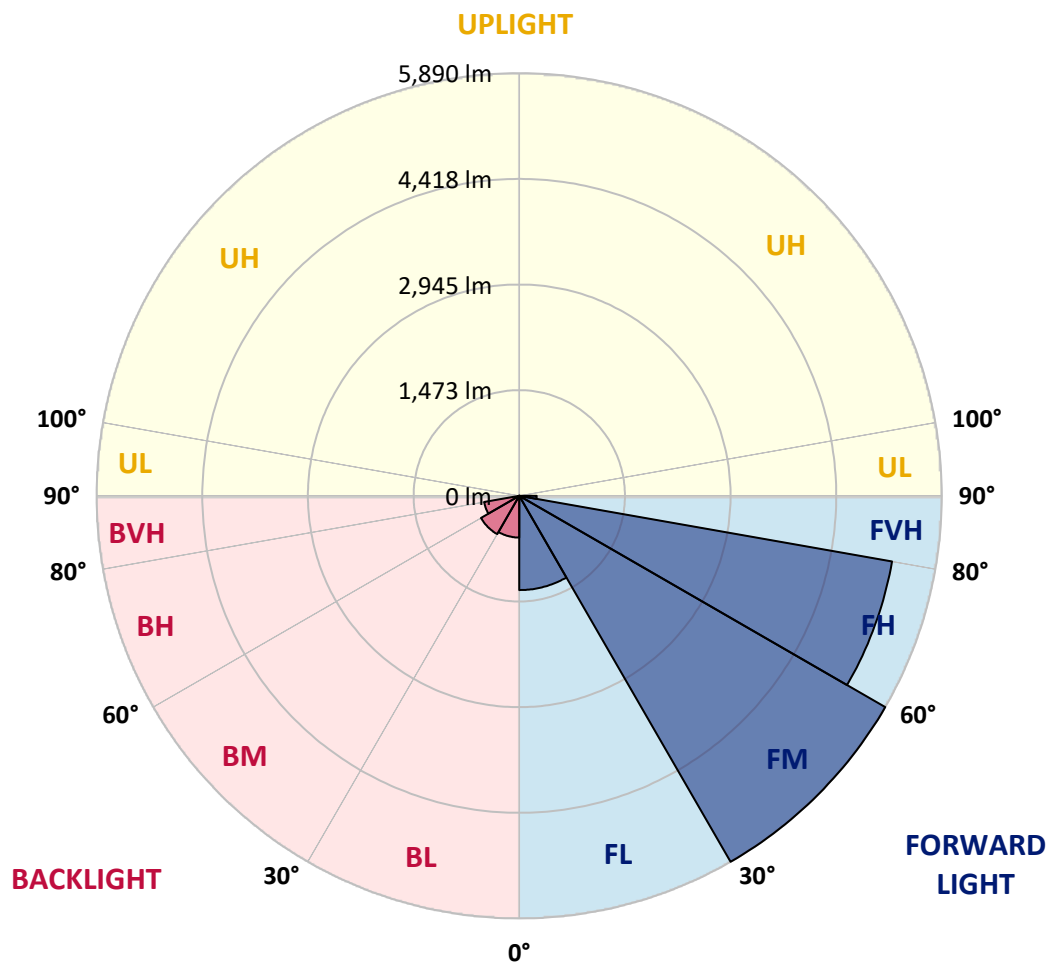
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.4	9.1			
FM	(30°-60°)	5890.3	40.8			
FH	(60°-80°)	5276.2	36.6			G3/7500
FVH	(80°-90°)	242.9	1.7			G3/500
BL	(0°-30°)	581.8	4.0	B2/1000		
BM	(30°-60°)	616.1	4.3	B1/1000		
BH	(60°-80°)	496.8	3.4	B1/500		G1/500
BVH	(80°-90°)	5.6	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°	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0
2.5°	3677.3	3668.2	3675.5	3691.4	3699.3	3699.3	3705.4	3698.1	3700.5	3682.8	3657.2
5°	3447.2	3433.2	3453.3	3497.9	3552.8	3599.8	3669.4	3706.0	3709.7	3710.3	3680.4
7.5°	3199.4	3186.6	3216.5	3269.0	3339.8	3427.1	3548.5	3654.7	3660.8	3718.2	3696.2
10°	2998.0	2988.9	3023.6	3079.8	3162.8	3260.5	3409.4	3557.1	3574.8	3701.7	3693.8
12.5°	2838.1	2830.8	2863.7	2928.4	3013.3	3121.3	3276.9	3448.4	3472.2	3664.5	3681.6
15°	2721.5	2720.3	2747.8	2810.0	2904.0	3004.7	3164.0	3347.7	3375.2	3624.2	3679.8
17.5°	2660.5	2662.3	2682.5	2735.6	2816.1	2916.2	3068.8	3262.9	3292.8	3588.2	3688.9
20°	2654.4	2656.2	2667.2	2697.1	2762.4	2850.9	2991.3	3191.5	3222.6	3561.4	3703.6
22.5°	2708.1	2706.9	2709.9	2706.9	2743.5	2810.6	2940.0	3136.6	3172.6	3543.7	3715.2
25°	2811.2	2809.4	2808.2	2785.6	2761.2	2797.2	2918.7	3105.4	3139.6	3530.8	3721.9
27.5°	2954.7	2953.5	2951.6	2914.4	2841.1	2818.6	2921.1	3093.8	3122.5	3520.5	3720.7
30°	3143.3	3151.8	3149.4	3097.5	2983.4	2883.9	2946.7	3087.7	3112.8	3500.3	3707.8
32.5°	3364.8	3381.9	3395.3	3339.8	3197.0	3013.3	3005.9	3094.4	3112.8	3485.1	3684.6
35°	3594.9	3616.9	3666.3	3646.8	3458.8	3208.0	3107.9	3134.7	3150.0	3493.6	3673.7
37.5°	3821.4	3847.6	3955.0	4011.8	3801.8	3465.5	3266.6	3234.2	3242.1	3545.5	3685.9
40°	4084.4	4124.1	4287.1	4378.6	4211.4	3810.4	3504.0	3405.1	3408.2	3659.6	3742.6
42.5°	4429.9	4470.8	4647.2	4790.6	4672.8	4246.2	3826.2	3666.3	3663.3	3873.2	3876.3
45°	4851.0	4893.7	5076.2	5235.5	5182.4	4762.5	4238.8	4047.8	4044.1	4210.1	4129.6
47.5°	5328.3	5370.4	5533.4	5697.6	5754.9	5365.5	4764.3	4568.4	4559.9	4678.3	4520.8
50°	5737.8	5765.3	5915.4	6136.4	6395.2	6106.5	5418.0	5229.4	5220.3	5300.2	5095.1
52.5°	5886.8	5902.6	6055.2	6364.7	7010.4	7109.9	6276.8	6033.9	6027.1	6061.9	5859.9
55°	5585.3	5613.9	5801.3	6260.3	7343.7	8243.9	7360.7	7029.9	6979.3	6904.2	6659.5
57.5°	4763.7	4809.5	5010.9	5621.3	7188.0	9143.6	8953.7	8156.6	8082.2	7623.2	7309.5
60°	3569.3	3625.4	3792.7	4451.2	6357.3	9464.0	10694.4	9412.1	9244.3	8195.7	7907.0
62.5°	2449.3	2477.4	2590.9	3020.0	4681.9	8939.1	12150.7	11093.6	10787.2	8818.2	8553.4
65°	1870.7	1880.5	1926.9	2074.6	2788.0	7261.3	12729.9	13312.2	12941.7	9562.9	9224.1
67.5°	1507.5	1499.6	1563.7	1774.9	1867.0	4429.9	12054.3	15411.2	15237.8	10558.3	9899.2
69°	1329.3	1318.3	1383.6	1629.0	1753.5	2928.4	10776.2	15887.8	15898.8	11083.8	9945.5
70°	1196.3	1203.6	1268.3	1542.3	1715.1	2298.6	9555.5	15766.4	15853.1	11280.4	9667.2
72.5°	798.9	818.5	948.5	1280.5	1649.1	1739.5	5769.6	13529.5	13862.7	10837.9	8294.0
75°	450.4	465.1	619.5	965.6	1553.9	1656.5	3047.4	9967.5	10289.8	9063.0	6395.8
77.5°	220.9	228.9	350.3	623.2	1299.4	1578.3	1728.5	6770.5	7138.6	5915.4	3617.5
80°	93.4	97.7	175.2	384.5	928.9	1506.3	1283.6	4166.8	4212.6	2317.5	963.7
82.5°	36.0	37.2	73.9	239.9	590.2	1174.3	1073.6	1975.7	1928.1	436.4	219.7
85°	4.3	4.9	26.9	144.0	328.4	604.2	872.2	851.4	788.0	86.7	112.9
87.5°	0.0	0.0	1.8	43.9	97.7	283.2	453.5	353.4	318.6	28.1	58.6
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°	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0	3645.0
2.5°	3635.8	3629.7	3596.8	3549.1	3504.0	3447.8	3394.1	3361.8	3336.1	3319.0	3339.2
5°	3645.6	3618.7	3518.6	3390.5	3264.7	3123.1	2991.3	2879.6	2835.7	2786.8	2808.8
7.5°	3642.5	3591.9	3411.8	3183.6	2952.8	2714.2	2488.4	2314.4	2224.1	2135.6	2158.2
10°	3627.3	3541.8	3269.0	2930.9	2585.4	2242.4	1922.0	1678.4	1542.3	1419.0	1436.7
12.5°	3593.7	3474.7	3100.5	2641.6	2179.5	1727.3	1351.9	1040.0	872.8	798.9	808.1
15°	3573.6	3409.4	2922.3	2348.6	1746.2	1203.0	826.4	614.6	538.3	513.9	517.0
17.5°	3563.8	3346.5	2738.0	2013.5	1303.1	766.0	534.1	471.2	454.7	450.4	451.7
20°	3554.0	3283.0	2548.2	1682.1	897.8	515.1	438.8	420.5	414.4	408.9	410.2
22.5°	3537.5	3222.0	2344.3	1346.4	605.5	418.1	395.5	377.8	365.0	358.3	359.5
25°	3517.4	3157.9	2136.2	1002.8	441.9	372.9	351.6	326.5	311.3	299.1	299.7
27.5°	3485.1	3079.2	1921.4	730.0	371.1	333.9	305.2	277.7	252.1	238.0	238.0
30°	3439.9	2990.1	1682.7	522.5	332.6	295.4	260.6	226.4	199.0	186.2	184.9
32.5°	3389.8	2897.3	1441.6	396.1	302.1	259.4	219.7	183.7	159.3	148.9	148.3
35°	3347.1	2797.2	1201.2	332.0	271.6	224.6	181.3	150.8	131.2	122.7	122.1
37.5°	3319.7	2697.1	966.8	296.6	244.1	192.3	152.0	124.5	110.5	103.8	103.1
40°	3315.4	2622.6	752.6	269.8	218.5	163.6	127.0	105.6	92.8	85.4	84.8
42.5°	3370.9	2579.9	577.4	247.2	192.3	138.5	108.0	90.3	76.9	69.6	69.0
45°	3516.8	2593.3	444.3	227.0	166.0	117.2	91.6	75.1	62.9	57.4	56.2
47.5°	3782.9	2686.1	353.4	206.9	141.0	99.5	78.1	62.3	51.9	46.4	45.8
50°	4256.5	2904.0	295.4	184.9	117.8	84.8	64.7	50.7	42.1	37.2	36.6
52.5°	4885.2	3292.2	263.7	163.6	97.7	72.0	53.1	40.3	33.0	29.3	28.7
55°	5578.5	3762.2	242.9	140.4	80.0	59.8	42.1	31.7	25.6	22.6	21.4
57.5°	6255.4	4169.3	223.4	117.8	66.5	48.8	33.6	25.0	20.1	17.1	16.5
60°	6877.3	4543.4	200.8	94.6	54.3	38.5	26.2	19.5	15.9	12.8	12.8
62.5°	7543.2	4832.7	169.7	73.9	44.6	29.3	21.4	17.7	12.8	11.0	10.4
65°	8248.8	5047.5	133.1	57.4	34.8	22.0	17.7	18.3	10.4	7.9	7.3
67.5°	8770.0	5004.8	98.3	45.2	26.9	17.1	17.1	19.5	9.2	6.1	5.5
69°	8655.3	4657.5	82.4	39.1	23.2	14.6	15.9	19.5	8.5	5.5	4.9
70°	8322.6	4273.0	72.6	34.8	20.8	13.4	15.3	18.9	7.9	5.5	4.9
72.5°	6931.1	3218.3	56.8	26.2	16.5	11.0	12.8	16.5	7.9	5.5	4.3
75°	5213.6	2059.9	43.3	18.9	12.2	8.5	9.8	12.2	7.9	4.9	4.3
77.5°	2836.9	742.8	31.1	12.8	8.5	6.7	6.7	9.2	7.3	3.7	2.4
80°	729.4	186.8	19.5	8.5	6.7	4.9	4.3	6.1	4.3	0.6	0.0
82.5°	180.1	42.1	10.4	6.1	4.9	1.8	1.8	3.1	1.8	0.0	0.0
85°	98.9	20.8	6.7	4.3	2.4	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	50.7	6.1	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)