

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: P323127

Luminaire Tested: **GAN-SA3C-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323127
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-SA3C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 14958 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

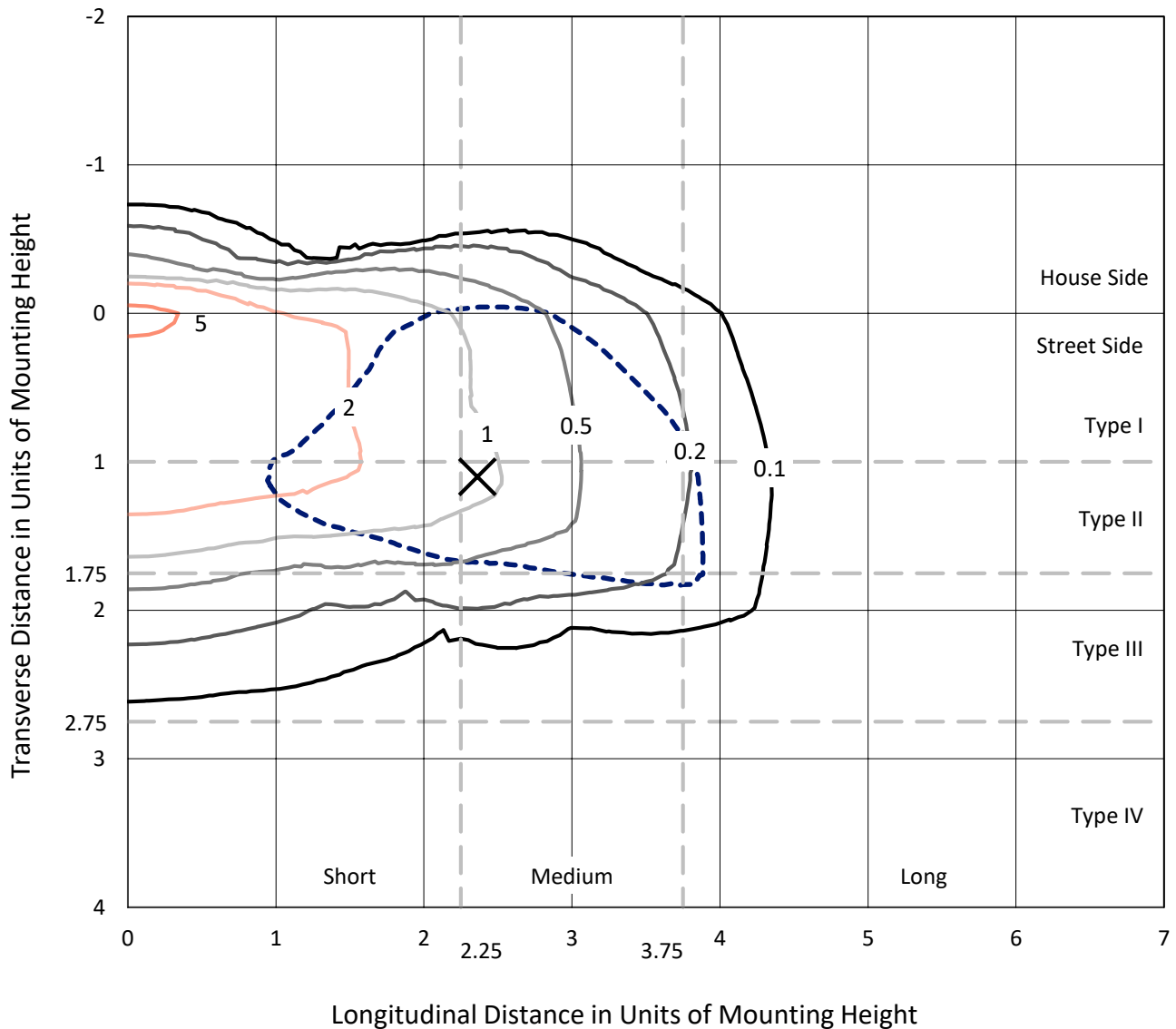
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

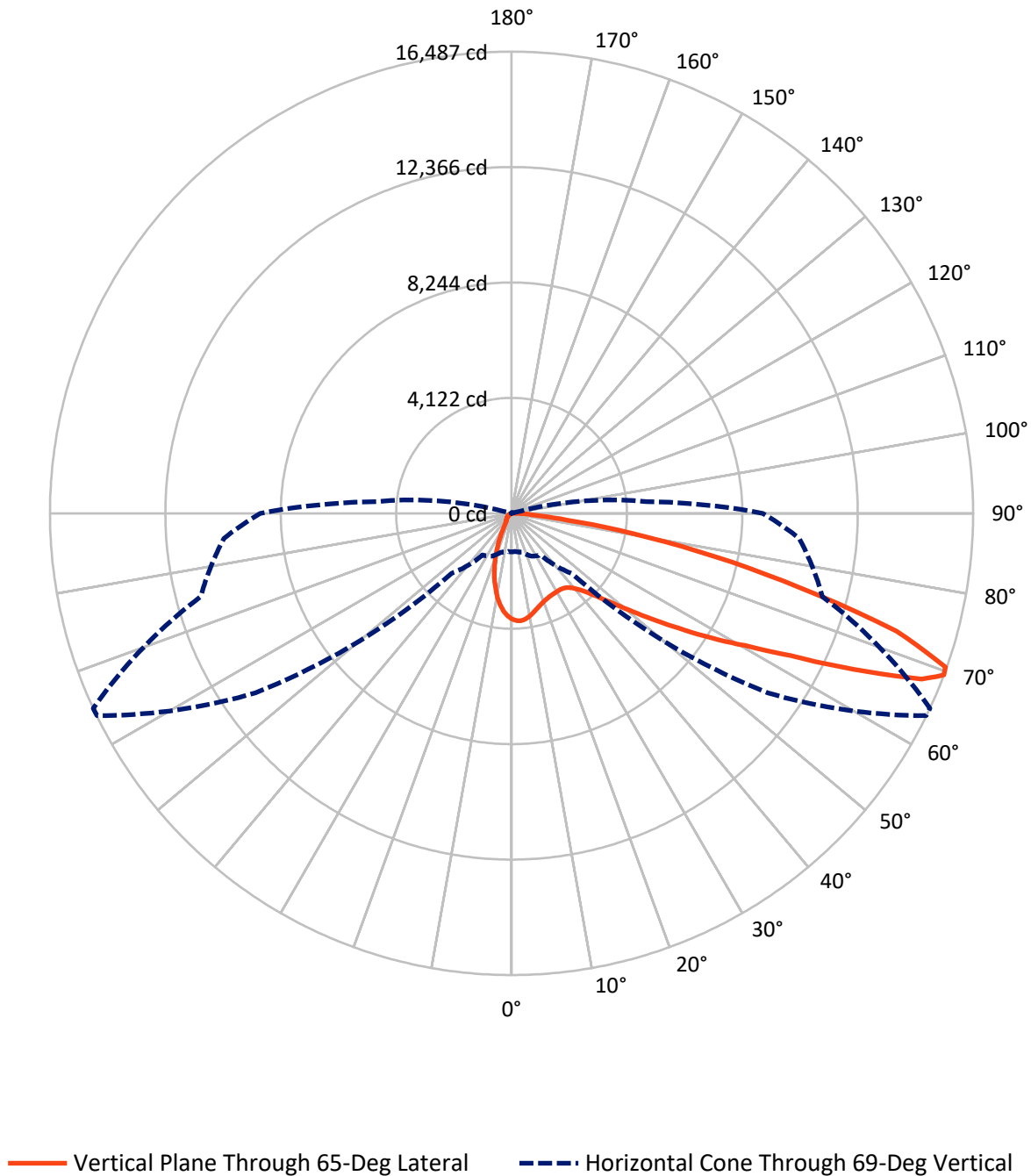
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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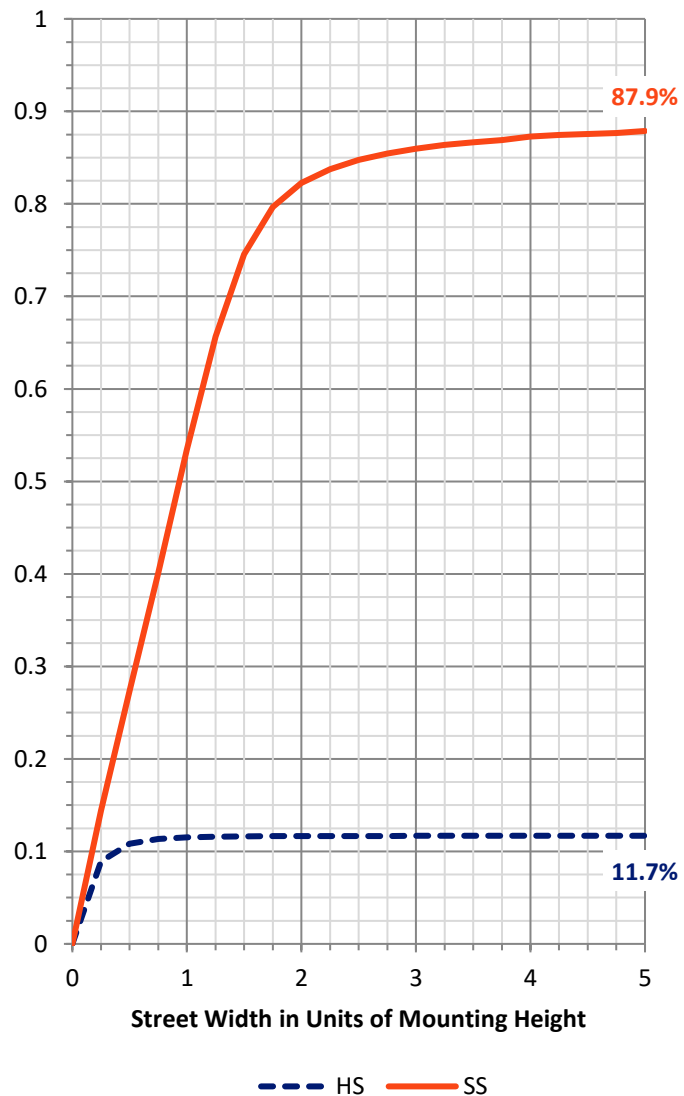
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1763.2	0.0	1763.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13194.8	0.0	13194.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	14958.0	0.0	14958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.1	2.1
10°-20°	691.9	4.6
20°-30°	958.3	6.4
30°-40°	1336.2	8.9
40°-50°	2076.9	13.9
50°-60°	3334.2	22.3
60°-70°	3771.6	25.2
70°-80°	2215.1	14.8
80°-90°	257.7	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°	14958.0	100.0
0°-180°	14958.0	100.0

Coefficient of Utilization



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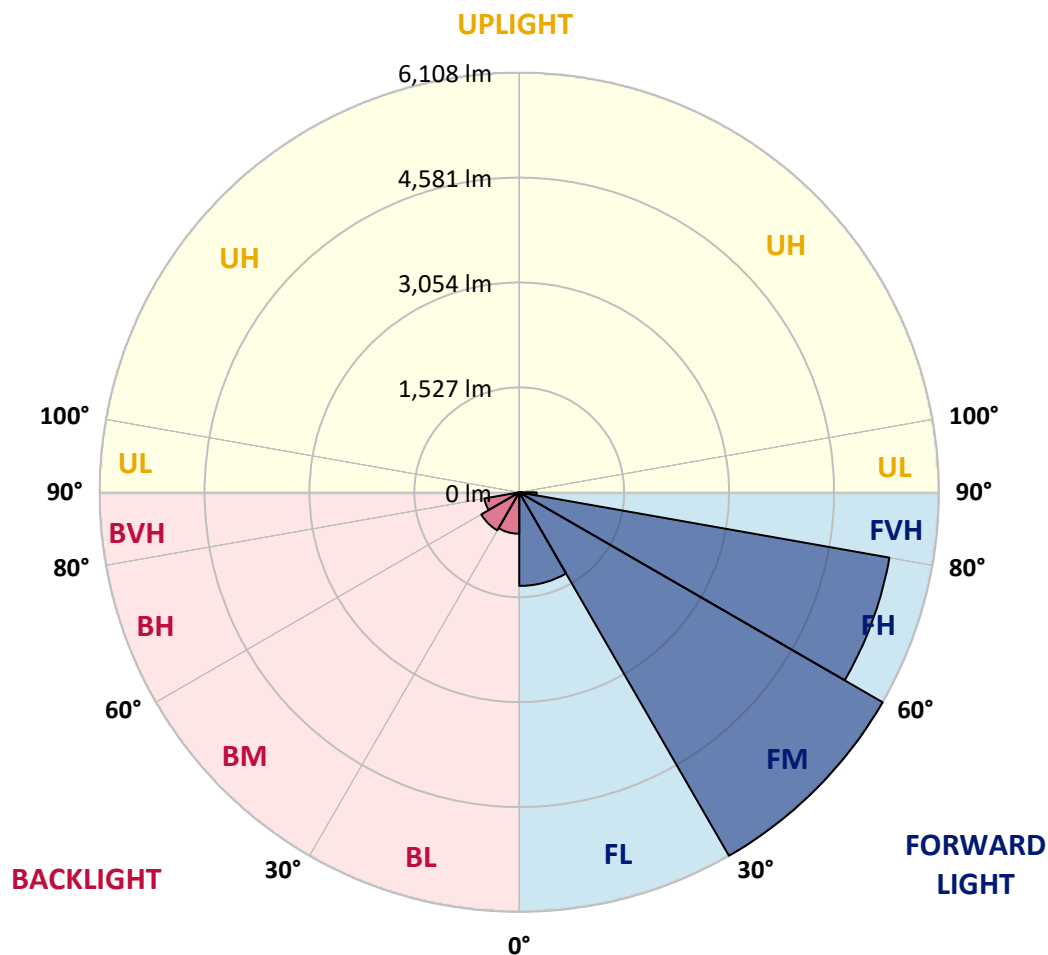
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1363.0	9.1			
FM	(30°-60°)	6108.4	40.8			
FH	(60°-80°)	5471.5	36.6			G3/7500
FVH	(80°-90°)	251.9	1.7			G3/500
BL	(0°-30°)	603.3	4.0	B2/1000		
BM	(30°-60°)	638.9	4.3	B1/1000		
BH	(60°-80°)	515.2	3.4	B2/1000		G2/1000
BVH	(80°-90°)	5.8	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9
2.5°	3813.5	3804.0	3811.6	3828.0	3836.2	3836.2	3842.6	3835.0	3837.5	3819.2	3792.6
5°	3574.8	3560.3	3581.2	3627.4	3684.3	3733.1	3805.2	3843.2	3847.0	3847.6	3816.6
7.5°	3317.9	3304.6	3335.6	3390.0	3463.4	3554.0	3679.9	3790.0	3796.4	3855.9	3833.1
10°	3109.0	3099.5	3135.6	3193.8	3279.9	3381.2	3535.6	3688.8	3707.1	3838.8	3830.5
12.5°	2943.2	2935.6	2969.8	3036.8	3124.8	3236.9	3398.3	3576.1	3600.8	3800.2	3817.9
15°	2822.3	2821.0	2849.5	2914.1	3011.5	3116.0	3281.2	3471.7	3500.2	3758.4	3816.0
17.5°	2759.0	2760.9	2781.8	2836.8	2920.4	3024.2	3182.4	3383.7	3414.7	3721.0	3825.5
20°	2752.7	2754.6	2765.9	2797.0	2864.7	2956.5	3102.0	3309.6	3341.9	3693.2	3840.7
22.5°	2808.4	2807.1	2810.2	2807.1	2845.1	2914.7	3048.9	3252.7	3290.0	3674.8	3852.7
25°	2915.3	2913.4	2912.2	2888.7	2863.4	2900.8	3026.7	3220.4	3255.8	3661.6	3859.7
27.5°	3064.1	3062.8	3060.9	3022.3	2946.3	2922.9	3029.2	3208.4	3238.1	3650.8	3858.4
30°	3259.6	3268.5	3266.0	3212.2	3093.8	2990.6	3055.8	3202.0	3228.0	3629.9	3845.1
32.5°	3489.4	3507.1	3521.0	3463.4	3315.3	3124.8	3117.2	3209.0	3228.0	3614.1	3821.1
35°	3728.0	3750.8	3802.1	3781.8	3586.9	3326.7	3222.9	3250.8	3266.6	3622.9	3809.7
37.5°	3962.8	3990.0	4101.4	4160.3	3942.6	3593.8	3387.5	3353.9	3362.2	3676.7	3822.3
40°	4235.6	4276.8	4445.8	4540.7	4367.3	3951.4	3633.7	3531.2	3534.3	3795.1	3881.2
42.5°	4593.9	4636.3	4819.2	4967.9	4845.8	4403.4	3967.9	3802.1	3798.9	4016.6	4019.8
45°	5030.6	5074.9	5264.2	5429.4	5374.3	4938.8	4395.8	4197.7	4193.9	4366.0	4282.5
47.5°	5525.6	5569.2	5738.2	5908.5	5968.0	5564.2	4940.7	4737.5	4728.7	4851.5	4688.2
50°	5950.3	5978.7	6134.4	6363.6	6631.9	6332.6	5618.6	5423.0	5413.5	5496.4	5283.8
52.5°	6104.7	6121.2	6279.4	6600.3	7269.9	7373.1	6509.1	6257.2	6250.3	6286.4	6076.8
55°	5792.0	5821.8	6016.1	6492.1	7615.5	8549.1	7633.2	7290.2	7237.7	7159.8	6906.0
57.5°	4940.1	4987.6	5196.4	5829.4	7454.1	9482.1	9285.2	8458.6	8381.4	7905.4	7580.1
60°	3701.4	3759.7	3933.1	4616.0	6592.7	9814.4	11090.4	9760.6	9586.5	8499.1	8199.7
62.5°	2540.0	2569.1	2686.8	3131.8	4855.3	9270.0	12600.6	11504.3	11186.6	9144.7	8870.0
65°	1940.0	1950.1	1998.2	2151.4	2891.3	7530.1	13201.2	13805.0	13420.8	9916.9	9565.6
67.5°	1563.4	1555.1	1621.6	1840.6	1936.2	4593.9	12500.5	15981.7	15802.0	10949.2	10265.6
69°	1378.5	1367.1	1434.9	1689.3	1818.4	3036.8	11175.2	16476.0	16487.4	11494.2	10313.7
70°	1240.6	1248.2	1315.2	1599.4	1778.6	2383.6	9909.3	16350.1	16440.0	11698.0	10025.1
72.5°	828.5	848.8	983.6	1327.9	1710.2	1803.9	5983.2	14030.4	14375.9	11239.1	8601.0
75°	467.1	482.3	642.4	1001.3	1611.5	1717.8	3160.3	10336.5	10670.7	9398.5	6632.6
77.5°	229.1	237.4	363.3	646.2	1347.5	1636.8	1792.5	7021.2	7402.9	6134.4	3751.4
80°	96.8	101.3	181.7	398.8	963.3	1562.1	1331.1	4321.1	4368.5	2403.3	999.4
82.5°	37.3	38.6	76.6	248.7	612.1	1217.8	1113.3	2048.8	1999.5	452.6	227.9
85°	4.4	5.1	27.8	149.4	340.5	626.6	904.5	883.0	817.1	89.9	117.1
87.5°	0.0	0.0	1.9	45.6	101.3	293.7	470.3	366.5	330.4	29.1	60.8
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°	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9	3779.9
2.5°	3770.4	3764.1	3729.9	3680.5	3633.7	3575.5	3519.8	3486.2	3459.6	3441.9	3462.8
5°	3780.5	3752.7	3648.9	3516.0	3385.6	3238.7	3102.0	2986.2	2940.6	2890.0	2912.8
7.5°	3777.4	3724.8	3538.1	3301.4	3062.2	2814.7	2580.5	2400.1	2306.4	2214.7	2238.1
10°	3761.6	3672.9	3390.0	3039.4	2681.1	2325.4	1993.1	1740.6	1599.4	1471.6	1489.9
12.5°	3726.7	3603.3	3215.3	2739.4	2260.2	1791.2	1402.0	1078.5	905.1	828.5	838.0
15°	3705.9	3535.6	3030.5	2435.5	1810.8	1247.5	857.0	637.4	558.3	532.9	536.1
17.5°	3695.7	3470.4	2839.4	2088.1	1351.3	794.3	553.8	488.6	471.5	467.1	468.4
20°	3685.6	3404.6	2642.5	1744.4	931.1	534.2	455.1	436.1	429.8	424.1	425.3
22.5°	3668.5	3341.3	2431.1	1396.3	627.9	433.6	410.1	391.8	378.5	371.5	372.8
25°	3647.6	3274.8	2215.3	1039.9	458.2	386.7	364.6	338.6	322.8	310.1	310.8
27.5°	3614.1	3193.2	1992.5	757.0	384.8	346.2	316.5	288.0	261.4	246.8	246.8
30°	3567.2	3100.8	1745.0	541.8	345.0	306.3	270.3	234.8	206.3	193.0	191.8
32.5°	3515.3	3004.6	1495.0	410.8	313.3	269.0	227.9	190.5	165.2	154.4	153.8
35°	3471.0	2900.8	1245.6	344.3	281.7	232.9	188.0	156.3	136.1	127.2	126.6
37.5°	3442.6	2797.0	1002.6	307.6	253.2	199.4	157.6	129.1	114.6	107.6	107.0
40°	3438.1	2719.7	780.4	279.8	226.6	169.6	131.7	109.5	96.2	88.6	88.0
42.5°	3495.7	2675.4	598.8	256.3	199.4	143.7	112.0	93.7	79.8	72.2	71.5
45°	3647.0	2689.4	460.8	235.5	172.2	121.5	94.9	77.9	65.2	59.5	58.2
47.5°	3923.0	2785.6	366.5	214.6	146.2	103.2	81.0	64.6	53.8	48.1	47.5
50°	4414.1	3011.5	306.3	191.8	122.2	88.0	67.1	52.5	43.7	38.6	38.0
52.5°	5066.0	3414.1	273.4	169.6	101.3	74.7	55.1	41.8	34.2	30.4	29.7
55°	5785.1	3901.4	251.9	145.6	82.9	62.0	43.7	32.9	26.6	23.4	22.2
57.5°	6487.0	4323.6	231.7	122.2	69.0	50.6	34.8	26.0	20.9	17.7	17.1
60°	7132.0	4711.6	208.2	98.1	56.3	39.9	27.2	20.3	16.5	13.3	13.3
62.5°	7822.5	5011.6	176.0	76.6	46.2	30.4	22.2	18.4	13.3	11.4	10.8
65°	8554.2	5234.4	138.0	59.5	36.1	22.8	18.4	19.0	10.8	8.2	7.6
67.5°	9094.7	5190.1	101.9	46.8	27.8	17.7	17.7	20.3	9.5	6.3	5.7
69°	8975.7	4830.0	85.4	40.5	24.1	15.2	16.5	20.3	8.9	5.7	5.1
70°	8630.8	4431.2	75.3	36.1	21.5	13.9	15.8	19.6	8.2	5.7	5.1
72.5°	7187.7	3337.5	58.9	27.2	17.1	11.4	13.3	17.1	8.2	5.7	4.4
75°	5406.6	2136.2	44.9	19.6	12.7	8.9	10.1	12.7	8.2	5.1	4.4
77.5°	2941.9	770.3	32.3	13.3	8.9	7.0	7.0	9.5	7.6	3.8	2.5
80°	756.4	193.7	20.3	8.9	7.0	5.1	4.4	6.3	4.4	0.6	0.0
82.5°	186.7	43.7	10.8	6.3	5.1	1.9	1.9	3.2	1.9	0.0	0.0
85°	102.5	21.5	7.0	4.4	2.5	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	52.5	6.3	1.9	1.3	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)