

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: P323428

Luminaire Tested: **GAN-SA4A-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13431 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

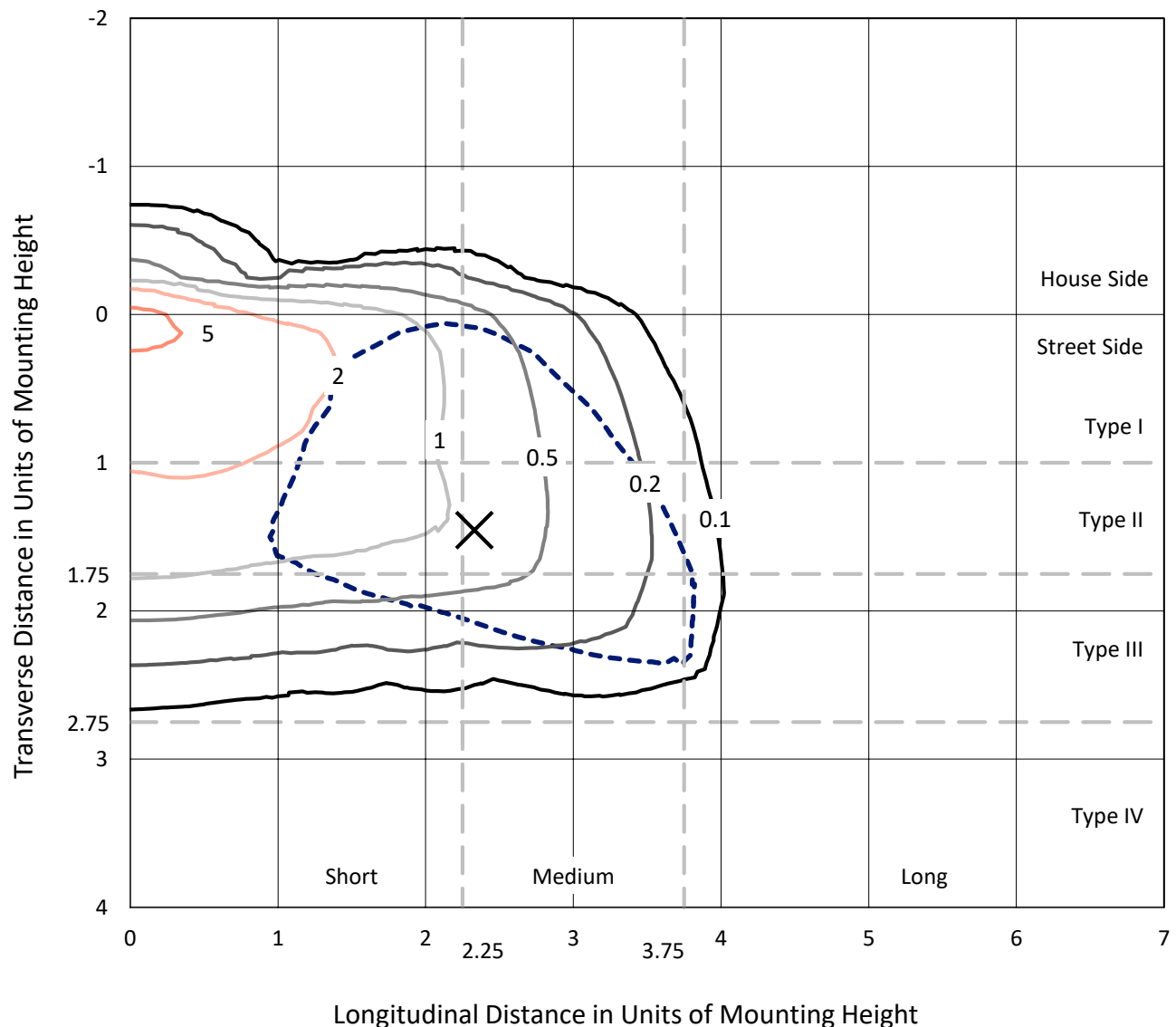
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

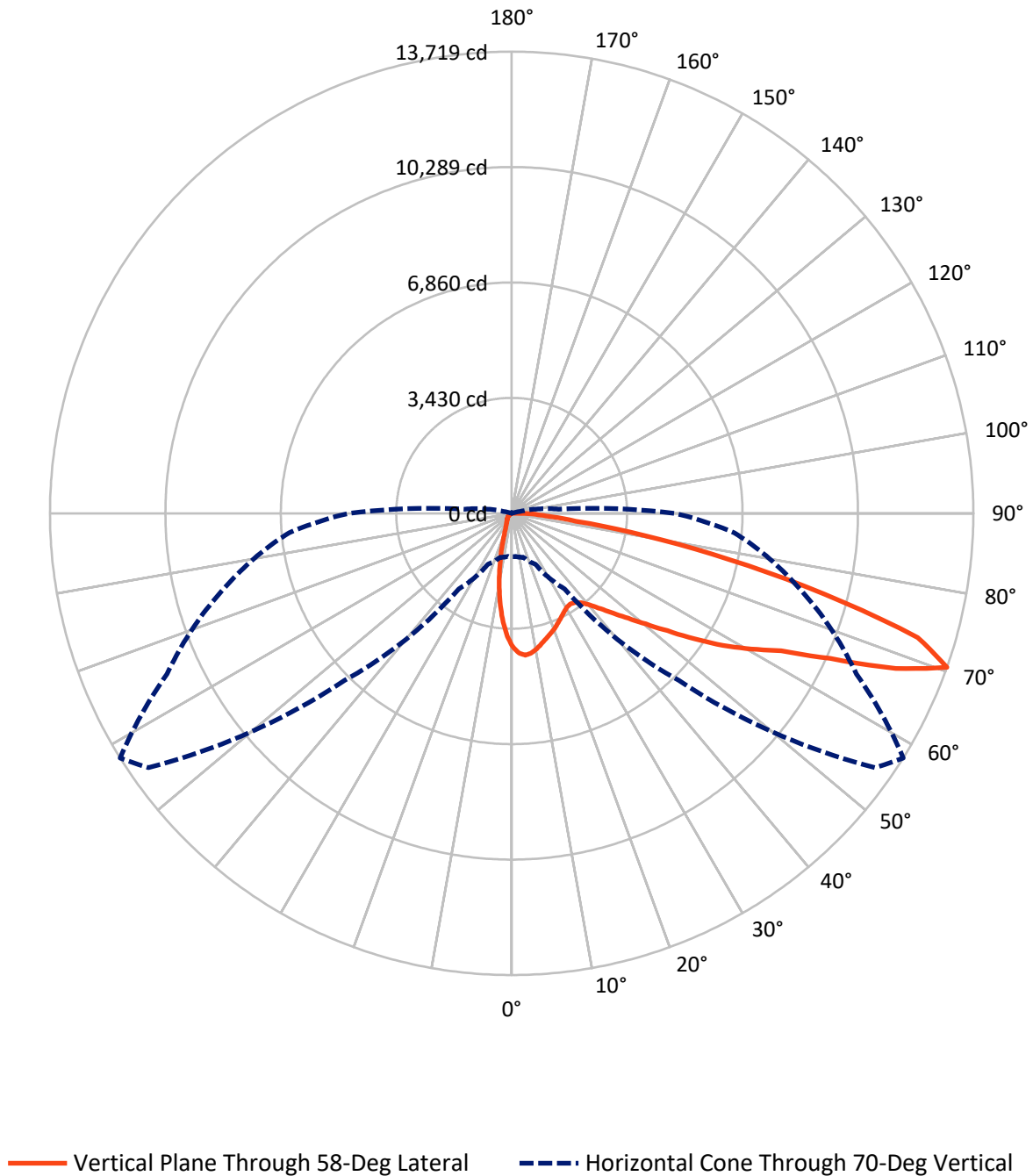
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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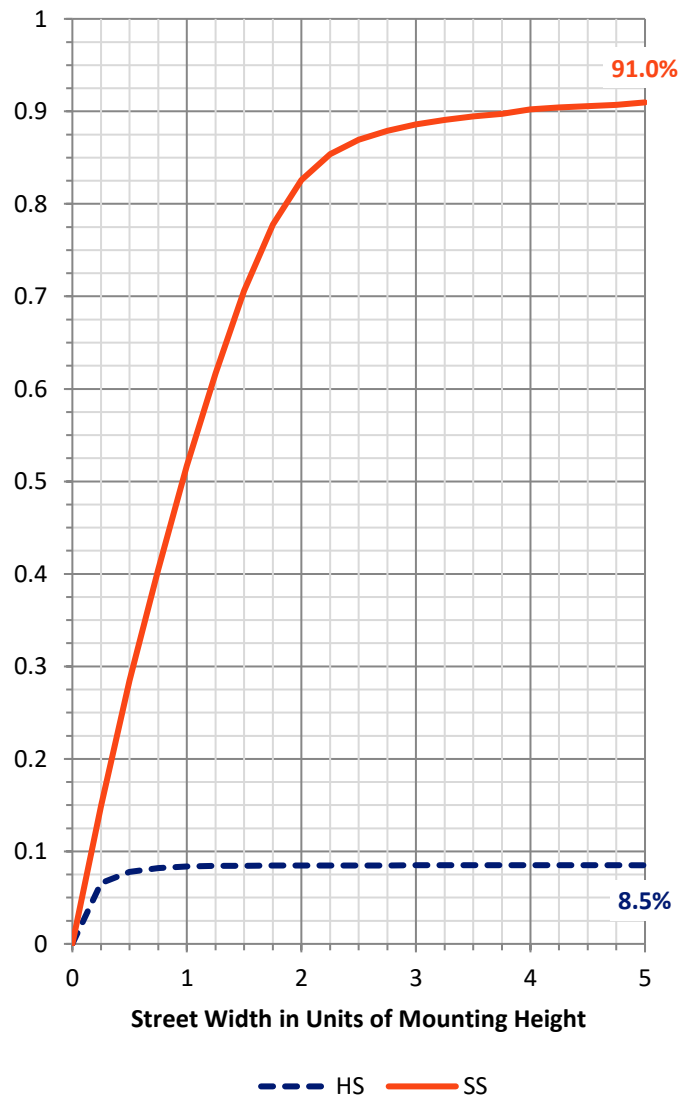
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1149.4	0.0	1149.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	12281.6	0.0	12281.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	13431.0	0.0	13431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.4	2.4
10°-20°	680.9	5.1
20°-30°	895.2	6.7
30°-40°	1185.6	8.8
40°-50°	1772.0	13.2
50°-60°	2838.7	21.1
60°-70°	3578.2	26.6
70°-80°	1930.1	14.4
80°-90°	225.9	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°	13431.0	100.0
0°-180°	13431.0	100.0

Coefficient of Utilization



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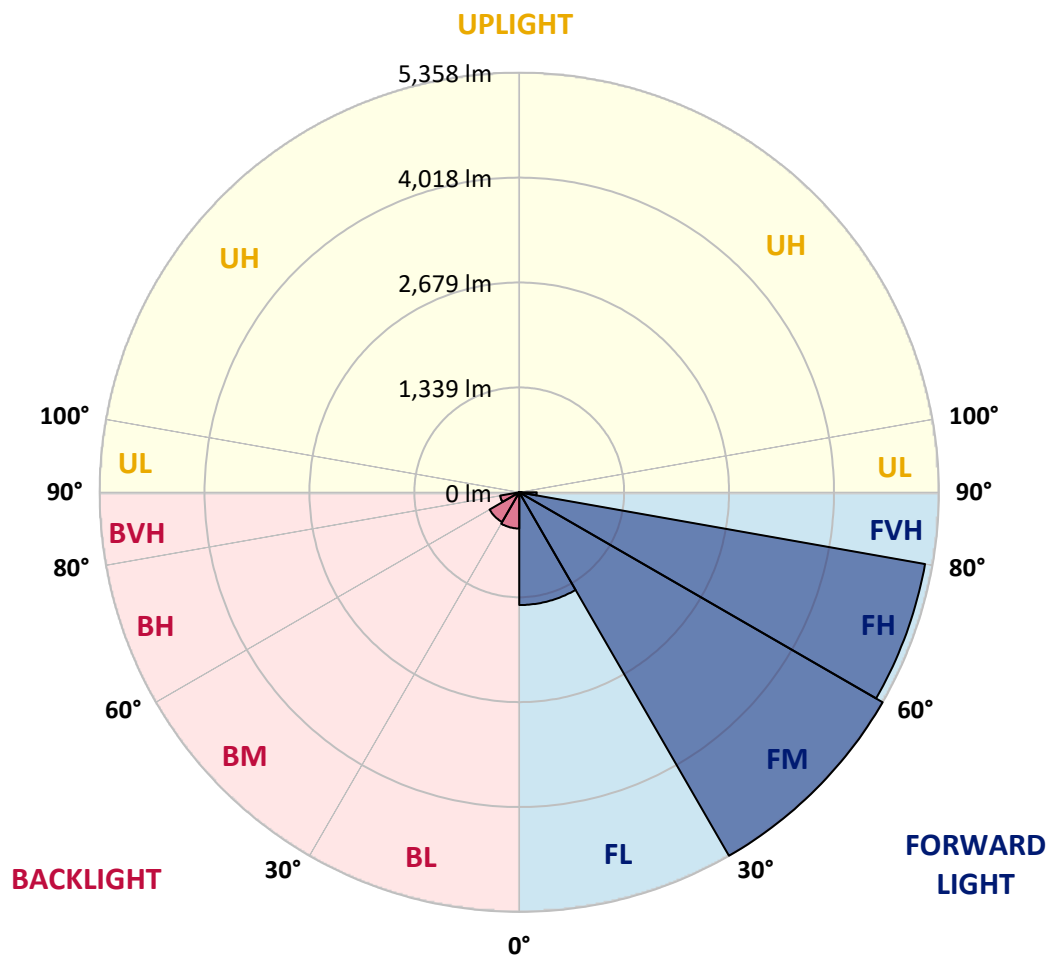
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.7	10.7			
FM	(30°-60°)	5357.8	39.9			
FH	(60°-80°)	5261.1	39.2			G3/7500
FVH	(80°-90°)	224.0	1.7			G2/225
BL	(0°-30°)	461.8	3.4	B1/500		
BM	(30°-60°)	438.5	3.3	B1/1000		
BH	(60°-80°)	247.2	1.8	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5
2.5°	4296.4	4285.8	4281.9	4275.2	4249.5	4224.4	4174.7	4160.7	4129.4	4055.1	3976.4
5°	4299.8	4299.2	4310.9	4308.1	4299.2	4287.5	4251.7	4233.3	4180.2	4074.1	3930.0
7.5°	4092.6	4103.2	4129.4	4150.6	4175.2	4207.0	4211.5	4193.6	4150.1	4035.6	3844.6
10°	3814.4	3831.2	3868.0	3909.9	3974.2	4037.8	4094.8	4092.6	4077.5	3964.7	3741.8
12.5°	3535.7	3555.3	3597.7	3659.7	3750.8	3854.6	3956.3	3970.2	3995.4	3901.0	3646.9
15°	3291.7	3308.4	3350.3	3426.3	3539.1	3678.7	3827.8	3853.5	3918.3	3851.3	3567.6
17.5°	3084.5	3095.1	3125.8	3210.2	3340.8	3510.1	3703.9	3754.1	3850.7	3812.2	3498.9
20°	2939.8	2941.5	2961.6	3020.8	3151.5	3340.8	3575.4	3647.4	3779.2	3778.7	3428.0
22.5°	2868.4	2862.8	2866.7	2900.8	2996.8	3179.4	3446.9	3532.4	3715.0	3750.2	3355.9
25°	2855.0	2850.5	2839.3	2843.8	2901.9	3038.1	3317.4	3416.2	3658.6	3732.9	3293.4
27.5°	2896.8	2901.3	2882.3	2862.2	2866.7	2946.5	3202.3	3316.8	3612.8	3732.9	3249.2
30°	2981.2	2983.4	2969.4	2943.2	2908.0	2920.9	3122.5	3237.0	3589.9	3758.6	3221.3
32.5°	3074.4	3086.7	3085.1	3063.8	3013.6	2961.6	3103.5	3207.9	3588.2	3815.5	3218.5
35°	3190.0	3204.0	3227.5	3223.0	3170.5	3085.1	3168.3	3250.4	3621.2	3909.4	3248.7
37.5°	3312.9	3334.1	3384.4	3408.4	3374.3	3277.7	3313.5	3372.1	3709.4	4061.3	3325.2
40°	3431.9	3455.9	3547.5	3641.9	3616.2	3516.8	3533.5	3580.4	3866.4	4279.6	3470.4
42.5°	3548.6	3584.3	3718.9	3874.2	3904.9	3825.6	3834.5	3872.0	4099.3	4580.1	3707.8
45°	3688.2	3728.4	3927.8	4119.4	4201.5	4166.8	4204.8	4229.4	4403.6	4977.2	4027.8
47.5°	3893.2	3939.5	4184.1	4402.5	4546.6	4568.9	4645.5	4661.6	4788.4	5439.6	4445.0
50°	4293.0	4305.9	4527.1	4725.3	4933.1	5067.1	5154.2	5166.5	5254.2	5945.0	4966.0
52.5°	4796.2	4804.6	4929.7	5062.6	5298.9	5572.5	5776.4	5793.7	5812.1	6437.6	5480.4
55°	5296.1	5295.0	5377.6	5455.8	5726.1	6123.8	6566.1	6576.7	6444.3	6905.1	5873.6
57.5°	5608.3	5638.4	5764.1	5864.6	6242.1	6752.0	7365.8	7404.9	7108.4	7251.3	6262.3
60°	5508.9	5523.4	5802.1	6174.0	6885.0	7645.1	8175.1	8185.1	7607.6	7597.0	6753.7
62.5°	4693.5	4701.3	5139.1	5905.9	7210.6	8803.3	9151.3	8987.6	8181.8	8076.8	7341.8
65°	3216.9	3267.7	3633.5	4581.2	6612.4	9529.9	10662.5	10391.7	9056.9	8768.2	7873.5
67.5°	1894.4	1883.8	2064.7	2762.8	4856.6	9047.4	12574.2	12305.0	10250.4	9231.1	7717.7
70°	1294.0	1286.7	1356.0	1672.7	2741.6	7018.4	13175.7	13719.1	11304.2	8919.5	6642.0
72.5°	923.7	927.6	1029.8	1299.6	1721.2	4089.2	11330.5	12616.7	10974.2	7775.7	5048.7
75°	627.2	637.8	784.1	1066.1	1509.0	2080.3	8040.5	9590.8	8936.3	5651.3	2901.9
77.5°	337.3	349.1	521.6	858.9	1364.4	1445.4	5172.1	6600.7	5613.3	2540.5	841.1
80°	140.7	147.4	244.1	624.4	1179.0	1269.4	3043.2	4002.6	2392.0	501.0	187.6
82.5°	60.9	64.2	101.6	372.5	881.3	1071.7	1611.2	1925.6	724.9	110.0	94.4
85°	11.7	12.3	41.9	197.1	562.4	604.8	1044.4	1023.7	325.6	47.5	68.7
87.5°	0.0	0.0	10.1	62.0	165.3	329.5	637.2	629.4	110.6	22.9	25.7
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°	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5
2.5°	3936.2	3897.6	3816.7	3716.7	3640.2	3555.9	3488.8	3403.9	3367.1	3368.8	3348.7
5°	3847.9	3768.6	3589.4	3363.2	3188.9	3009.1	2854.4	2700.3	2609.2	2579.6	2551.7
7.5°	3721.7	3596.1	3310.1	2961.6	2666.8	2378.6	2127.8	1907.2	1767.6	1699.5	1674.3
10°	3579.3	3402.8	2989.0	2529.9	2108.8	1719.0	1394.0	1111.4	998.6	922.1	902.5
12.5°	3454.2	3215.2	2675.1	2087.0	1587.2	1117.0	807.0	631.1	554.6	524.4	519.4
15°	3336.4	3039.8	2373.0	1686.1	1099.1	687.5	513.2	453.5	435.6	430.6	430.6
17.5°	3225.2	2872.8	2077.6	1291.2	727.1	482.0	425.0	411.6	406.0	405.5	406.0
20°	3109.1	2705.8	1787.1	946.1	507.7	408.3	392.6	385.4	383.7	383.7	383.7
22.5°	2997.9	2538.9	1504.5	675.8	407.1	372.5	364.7	359.7	358.0	357.4	356.3
25°	2891.3	2380.2	1228.7	477.5	357.4	341.2	334.5	327.8	322.8	320.0	318.3
27.5°	2803.6	2239.0	971.8	383.1	322.8	308.8	300.5	290.4	278.1	272.5	270.3
30°	2733.8	2109.9	748.9	323.4	290.4	276.4	263.6	246.3	228.4	218.9	218.4
32.5°	2679.0	1983.2	568.5	285.9	261.4	244.1	225.6	203.8	183.2	172.6	172.0
35°	2652.2	1871.5	434.5	258.6	235.7	213.9	191.0	167.0	146.9	136.8	135.7
37.5°	2670.1	1777.1	339.0	235.7	213.9	188.8	162.0	136.8	119.0	110.0	109.5
40°	2735.4	1716.8	275.3	216.1	195.5	164.8	135.7	112.3	97.2	89.9	89.4
42.5°	2874.5	1694.4	235.1	199.9	177.6	142.4	112.8	92.7	78.7	73.7	72.6
45°	3106.8	1727.4	207.8	184.3	159.2	121.2	93.3	76.0	63.7	59.8	59.2
47.5°	3416.2	1813.9	188.2	169.2	142.4	102.2	77.6	61.4	51.9	48.0	47.5
50°	3815.0	1951.3	172.0	154.1	126.8	86.6	64.2	48.6	40.2	37.4	37.4
52.5°	4248.9	2115.0	157.5	140.2	111.1	72.0	51.9	37.4	31.8	28.5	28.5
55°	4607.5	2257.9	141.9	129.6	92.1	59.8	39.7	28.5	23.5	21.8	21.8
57.5°	4965.5	2410.4	124.0	111.1	73.7	48.6	30.2	21.2	17.3	16.2	16.2
60°	5429.6	2596.9	106.7	90.5	58.1	36.9	22.3	15.1	12.8	12.3	12.3
62.5°	5940.0	2706.4	91.0	72.6	45.2	27.4	16.2	10.1	9.5	9.5	8.9
65°	6252.2	2551.7	76.5	58.1	35.2	20.7	10.6	7.3	8.4	7.8	6.7
67.5°	5854.0	1997.7	62.5	45.2	27.4	15.6	6.7	5.0	8.9	7.3	5.6
70°	4847.1	1398.4	48.6	31.8	21.8	13.4	4.5	3.4	9.5	7.3	4.5
72.5°	3627.3	936.0	38.5	21.2	16.2	11.7	3.9	1.7	8.4	6.1	3.9
75°	1982.1	377.0	30.7	13.4	10.1	8.4	2.8	1.1	5.6	4.5	2.8
77.5°	521.6	99.4	22.3	8.9	5.6	3.4	1.7	0.6	2.8	2.2	1.1
80°	132.9	38.5	14.5	6.1	3.9	1.7	0.0	0.0	0.6	0.0	0.0
82.5°	70.9	16.2	8.9	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.6	10.6	5.0	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.7	3.4	1.7	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)