

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: P319918

Luminaire Tested: **GAN-SA4B-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18319 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

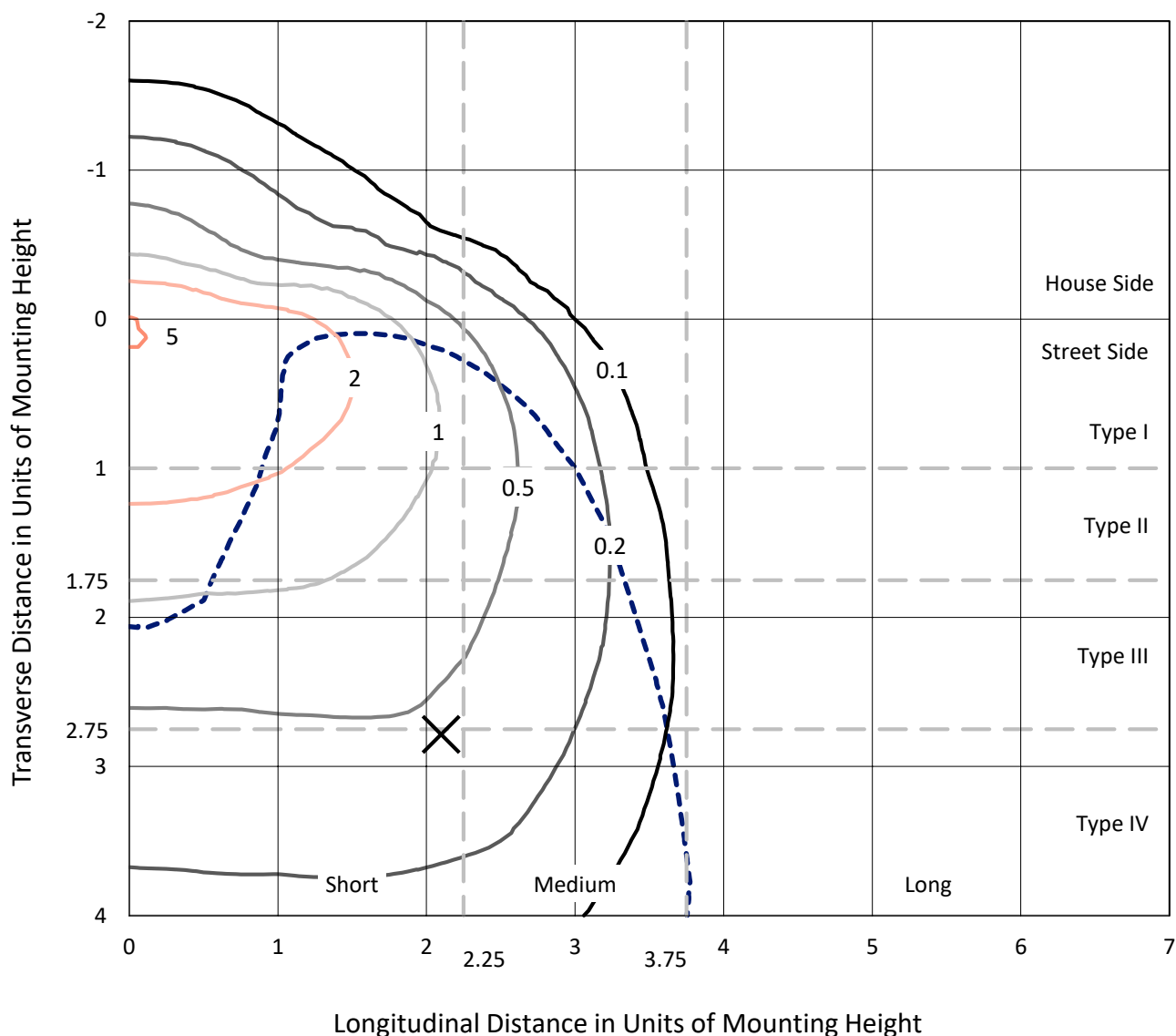
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

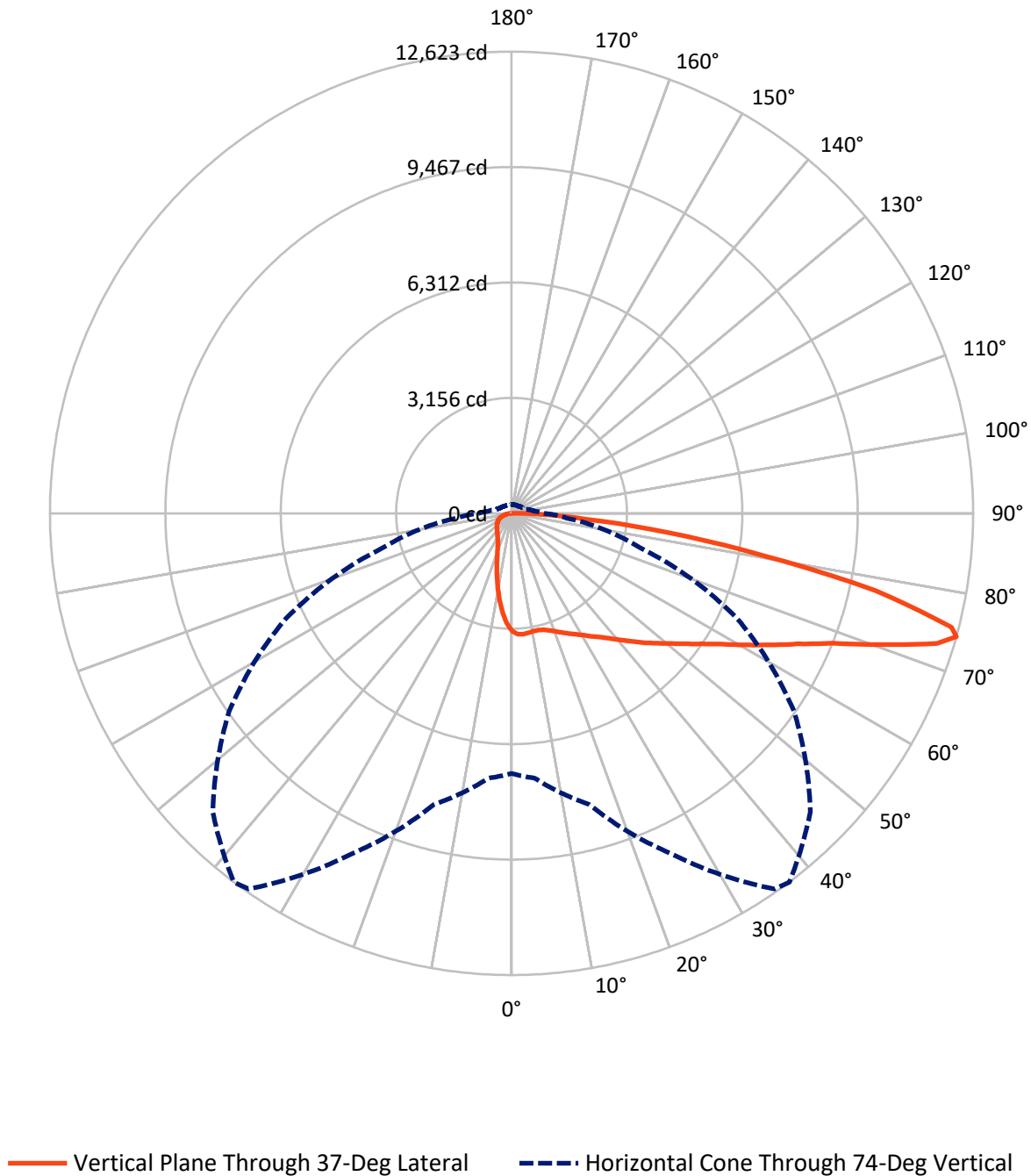
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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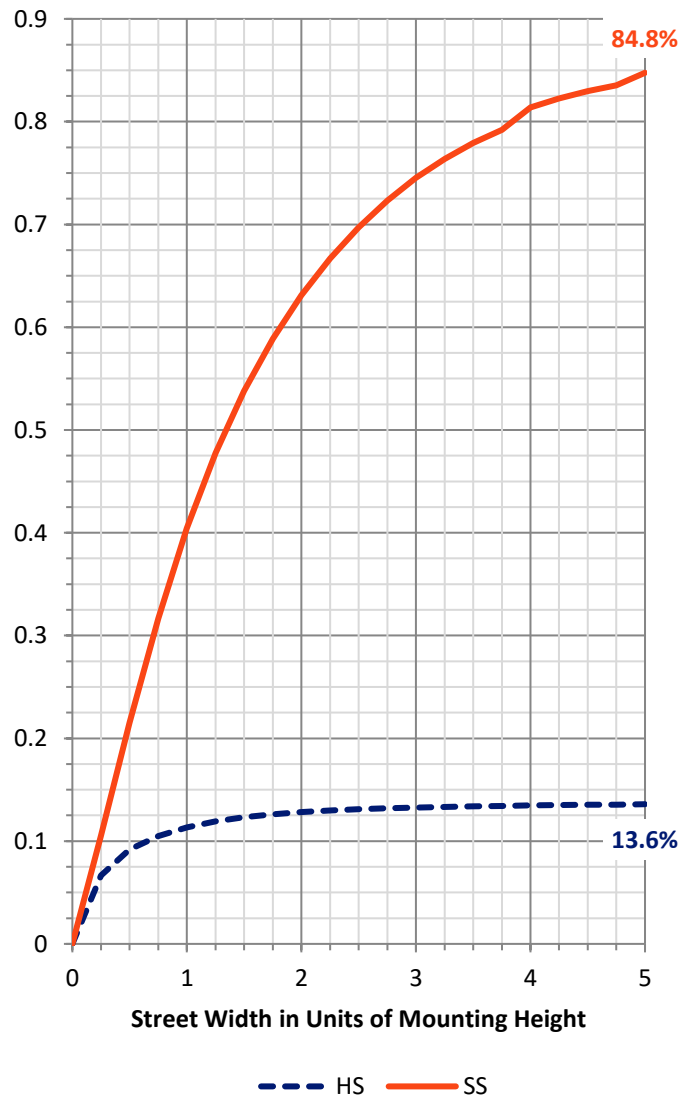
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2520.6	0.0	2520.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	15798.4	0.0	15798.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	18319.0	0.0	18319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.2	1.6
10°-20°	728.6	4.0
20°-30°	1122.6	6.1
30°-40°	1632.4	8.9
40°-50°	2402.6	13.1
50°-60°	3374.1	18.4
60°-70°	4270.6	23.3
70°-80°	3760.4	20.5
80°-90°	743.5	4.1
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°	18319.0	100.0
0°-180°	18319.0	100.0

Coefficient of Utilization



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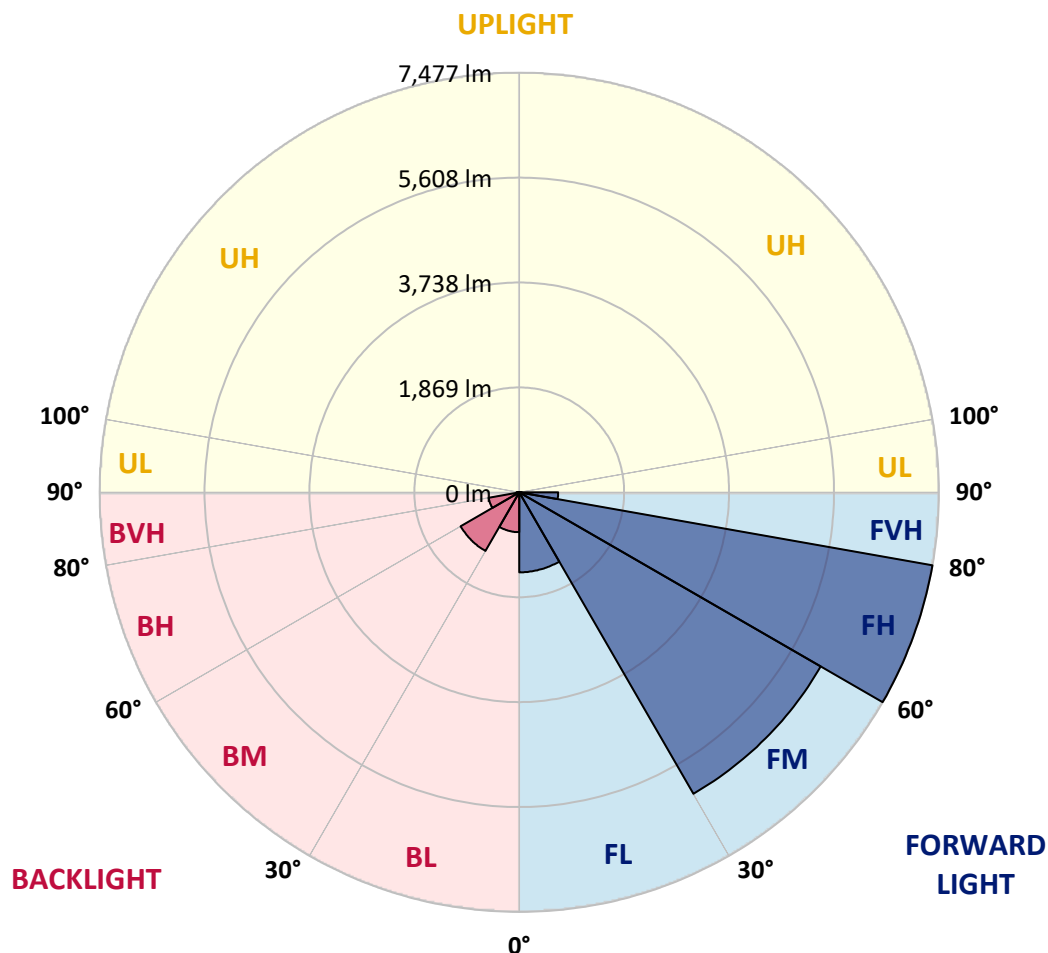
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1425.4	7.8			
FM	(30°-60°)	6203.0	33.9			
FH	(60°-80°)	7476.9	40.8			G3/7500
FVH	(80°-90°)	693.2	3.8			G4/750
BL	(0°-30°)	710.0	3.9	B2/1000		
BM	(30°-60°)	1206.2	6.6	B2/2500		
BH	(60°-80°)	554.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	50.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7
2.5°	3338.1	3338.7	3338.1	3332.9	3320.7	3310.3	3301.9	3289.7	3262.6	3241.9	3211.0
5°	3369.7	3365.8	3363.2	3353.6	3334.2	3322.6	3306.5	3283.2	3238.7	3197.4	3147.1
7.5°	3354.9	3350.3	3344.5	3332.9	3311.0	3301.3	3278.7	3248.4	3194.8	3140.6	3068.4
10°	3309.0	3307.8	3305.2	3302.6	3283.9	3276.1	3255.5	3223.2	3170.3	3104.5	3020.0
12.5°	3258.1	3261.3	3271.6	3285.2	3276.8	3272.9	3260.0	3238.1	3183.9	3112.9	3010.9
15°	3225.8	3234.8	3262.6	3298.1	3305.2	3303.9	3300.7	3286.5	3229.0	3150.3	3031.6
17.5°	3214.8	3229.7	3282.6	3341.3	3362.0	3366.5	3367.8	3343.2	3279.4	3196.1	3052.9
20°	3234.8	3253.5	3331.0	3411.6	3444.6	3447.1	3441.3	3398.7	3327.1	3235.5	3064.5
22.5°	3295.5	3312.3	3409.1	3500.0	3537.5	3541.3	3523.9	3459.4	3377.4	3281.9	3080.6
25°	3412.3	3432.9	3529.7	3620.7	3640.1	3640.7	3615.6	3535.5	3443.3	3347.1	3115.5
27.5°	3564.6	3585.2	3672.3	3761.4	3751.1	3745.3	3711.1	3631.0	3529.1	3436.8	3177.4
30°	3734.3	3756.9	3839.5	3902.7	3878.2	3866.6	3838.8	3735.6	3648.5	3559.4	3272.3
32.5°	3909.8	3930.5	4002.7	4046.0	4015.0	4009.8	3967.9	3873.7	3804.0	3746.5	3425.8
35°	4089.8	4104.7	4175.7	4200.2	4158.9	4157.6	4146.0	4059.5	4015.6	4042.7	3649.1
37.5°	4273.8	4277.6	4338.3	4339.6	4327.3	4332.5	4344.7	4290.5	4302.8	4387.3	3939.5
40°	4437.7	4448.0	4491.9	4505.4	4526.7	4544.8	4606.1	4570.6	4665.4	4815.1	4300.9
42.5°	4559.0	4579.0	4649.3	4684.2	4753.2	4781.6	4868.1	4901.0	5092.0	5316.5	4730.6
45°	4661.6	4692.5	4805.5	4877.1	4993.9	5043.6	5167.5	5277.8	5574.0	5860.5	5183.0
47.5°	4772.6	4811.9	4953.2	5090.0	5248.8	5304.9	5530.1	5695.3	6088.3	6407.7	5609.5
50°	4935.8	4966.1	5104.2	5319.1	5517.2	5589.5	5901.2	6138.0	6611.0	6929.1	5979.3
52.5°	5163.6	5152.0	5268.8	5570.1	5836.0	5925.0	6297.4	6609.1	7140.8	7400.8	6291.6
55°	5392.7	5373.3	5455.3	5832.8	6207.7	6301.2	6733.6	7082.0	7644.7	7825.4	6531.0
57.5°	5647.6	5610.8	5679.8	6129.0	6631.0	6742.6	7222.1	7584.7	8140.3	8168.7	6683.3
60°	5910.2	5860.5	5938.0	6496.1	7168.5	7300.2	7793.8	8075.1	8607.5	8443.6	6732.3
62.5°	6139.9	6105.1	6224.5	6905.9	7774.4	7919.0	8355.2	8596.5	9068.2	8557.8	6555.5
65°	6340.6	6346.4	6552.9	7366.6	8450.1	8604.3	8999.2	9239.3	9430.9	8490.1	6141.9
67.5°	6580.0	6612.9	6965.3	7973.2	9300.6	9469.6	9936.2	9940.0	9633.5	8092.6	5327.5
70°	6929.1	6996.9	7532.5	8814.7	10509.8	10742.1	11102.2	10351.7	9349.0	7014.9	4191.8
72.5°	7238.9	7365.3	8135.8	9777.4	11983.7	12159.8	11784.3	10114.3	8159.7	5257.2	2611.5
74°	7113.0	7269.8	8245.5	10251.7	12538.6	12623.1	11553.9	9421.2	6803.3	3640.7	1517.7
75°	6842.0	7012.4	8085.5	10247.2	12468.3	12421.2	10997.7	8629.5	5603.0	2483.1	1009.9
77.5°	5521.7	5701.8	6813.0	8782.4	10223.3	10178.8	8448.1	5788.9	2454.0	814.4	513.0
80°	3210.3	3347.8	4229.2	5577.2	6893.6	6974.3	5555.9	2864.4	965.4	457.5	347.8
82.5°	1426.1	1520.9	2043.0	2847.0	4160.2	4264.1	2909.6	1500.9	596.2	278.1	209.1
85°	935.7	1006.0	1240.2	1355.8	1981.0	2052.0	1424.2	1168.6	393.6	152.9	153.6
87.5°	673.0	740.8	921.5	804.7	909.2	860.8	775.0	1081.5	158.1	87.1	51.6
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°	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7	3227.7
2.5°	3197.4	3187.1	3163.9	3120.0	3095.5	3074.8	3040.6	3020.6	3011.6	3010.9	3014.8
5°	3118.0	3094.2	3034.2	2960.6	2901.9	2848.3	2781.8	2741.8	2713.4	2696.7	2701.2
7.5°	3025.8	2988.3	2894.1	2776.7	2682.5	2578.6	2476.0	2414.7	2366.9	2331.4	2337.9
10°	2962.5	2910.9	2773.5	2604.4	2447.6	2296.6	2155.3	2070.7	2003.6	1952.0	1955.9
12.5°	2941.2	2871.5	2681.2	2455.3	2235.3	2028.8	1844.2	1714.5	1645.5	1586.8	1591.3
15°	2944.5	2850.9	2603.7	2321.1	2044.3	1784.2	1560.3	1408.7	1315.1	1274.4	1275.1
17.5°	2947.0	2827.0	2522.4	2177.2	1855.2	1555.8	1312.5	1158.9	1070.5	1033.1	1033.8
20°	2938.6	2788.3	2421.8	2012.0	1657.7	1346.1	1110.5	980.2	913.1	884.0	884.0
22.5°	2927.7	2742.5	2308.2	1846.2	1462.9	1164.1	966.0	866.6	827.9	808.5	807.9
25°	2932.8	2708.3	2192.0	1675.8	1283.5	1018.9	869.8	804.0	778.2	766.0	765.3
27.5°	2960.6	2692.1	2084.9	1506.1	1126.7	909.9	805.3	758.9	742.1	734.3	734.3
30°	3010.9	2692.1	1973.3	1361.6	996.3	829.2	755.6	724.0	712.4	707.2	707.2
32.5°	3098.7	2707.0	1865.5	1218.3	892.4	766.0	714.3	693.0	684.0	681.4	681.4
35°	3249.7	2757.3	1760.3	1082.8	808.5	714.3	675.0	662.7	656.3	655.6	657.5
37.5°	3462.0	2859.9	1661.6	982.8	749.2	672.4	642.1	632.4	628.5	631.7	634.3
40°	3729.1	2999.3	1571.9	892.4	704.0	638.8	611.7	605.3	603.3	607.9	611.7
42.5°	4051.8	3187.7	1498.4	827.3	669.2	610.4	585.9	578.2	576.2	581.4	586.6
45°	4400.9	3390.3	1446.7	778.9	642.1	589.1	563.3	554.9	551.1	553.7	559.5
47.5°	4718.4	3582.0	1426.1	744.7	616.3	571.1	543.3	533.0	526.6	525.3	529.8
50°	4986.1	3724.6	1435.8	724.0	595.6	551.1	524.0	512.4	502.7	496.9	500.1
52.5°	5181.0	3814.3	1444.8	715.0	579.5	529.1	502.7	491.7	478.8	469.1	469.1
55°	5322.3	3835.0	1424.8	707.9	567.2	505.3	478.8	468.5	455.6	444.6	443.3
57.5°	5377.8	3776.9	1350.6	697.6	558.8	482.7	453.6	445.9	434.9	422.0	421.4
60°	5303.0	3597.5	1207.3	675.6	547.9	464.0	428.5	423.3	418.1	405.9	405.2
62.5°	5002.3	3203.9	1022.1	631.1	525.9	444.0	405.2	407.8	408.5	400.1	398.8
65°	4457.0	2663.1	841.5	573.0	493.0	420.1	381.4	393.6	400.7	399.4	397.5
67.5°	3664.6	2072.7	713.0	511.7	449.8	387.2	355.6	369.8	375.6	380.1	378.8
70°	2719.9	1461.6	589.8	447.2	397.5	348.5	322.0	329.1	325.2	330.4	332.3
72.5°	1516.4	876.9	480.7	382.7	343.3	303.3	284.6	283.3	274.9	274.9	274.9
74°	909.9	643.4	422.7	342.6	310.4	273.6	257.5	251.7	243.9	244.6	243.9
75°	731.8	553.0	387.8	316.2	287.2	256.2	240.0	232.3	226.5	226.5	225.9
77.5°	462.0	420.1	312.3	251.7	229.7	211.0	200.0	189.7	189.7	189.1	188.4
80°	349.1	334.3	243.3	190.4	176.2	162.0	154.9	150.4	150.4	152.3	151.6
82.5°	239.4	251.7	171.0	132.9	125.8	115.5	114.2	114.9	112.9	110.3	109.7
85°	174.9	189.1	115.5	83.9	76.8	70.3	75.5	78.1	74.9	69.0	66.5
87.5°	67.1	123.9	61.9	34.8	32.3	27.7	32.3	33.6	36.1	28.4	29.0
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)