

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: P323951

Luminaire Tested: **GAN-SA7A-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19667 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

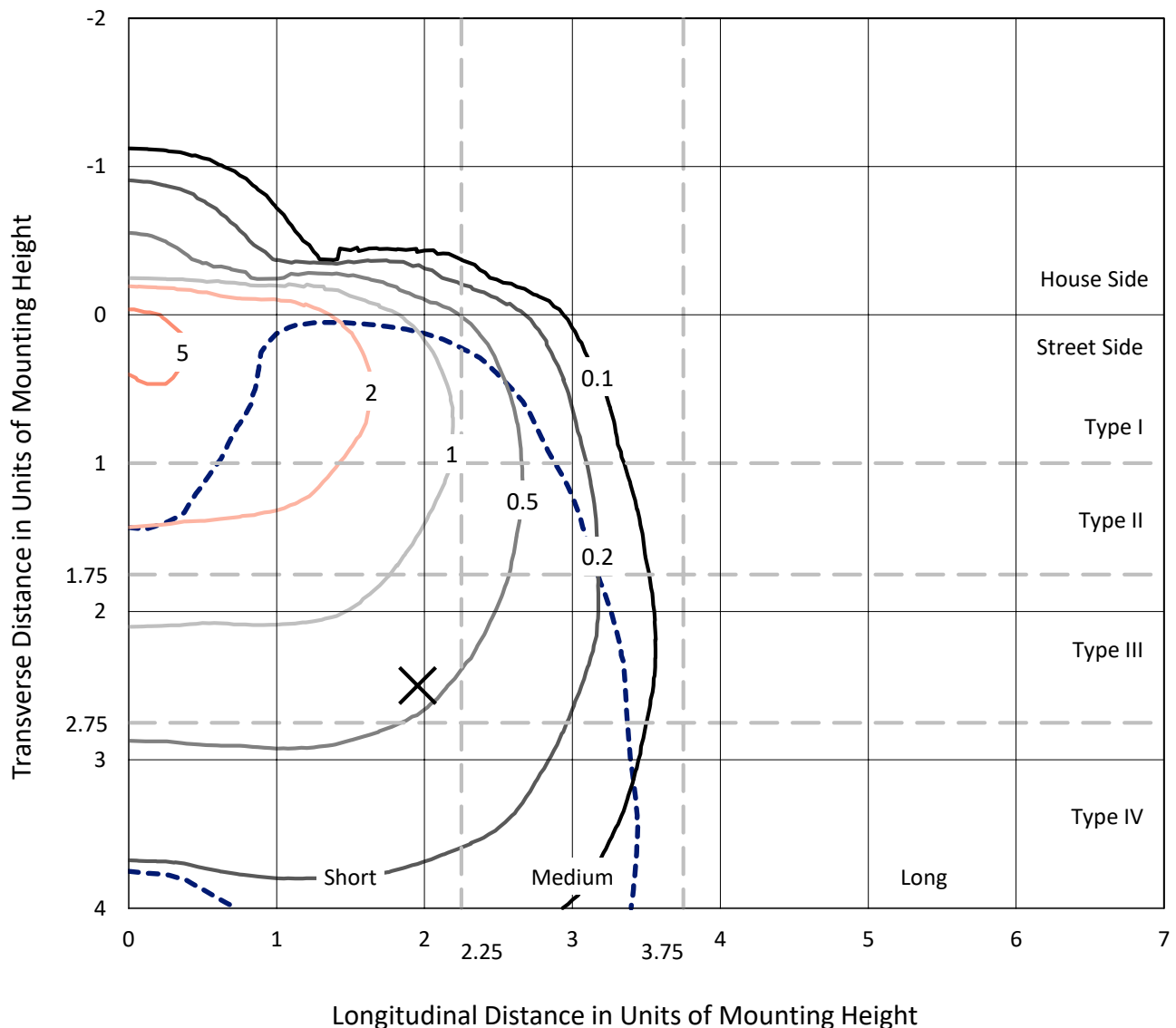
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

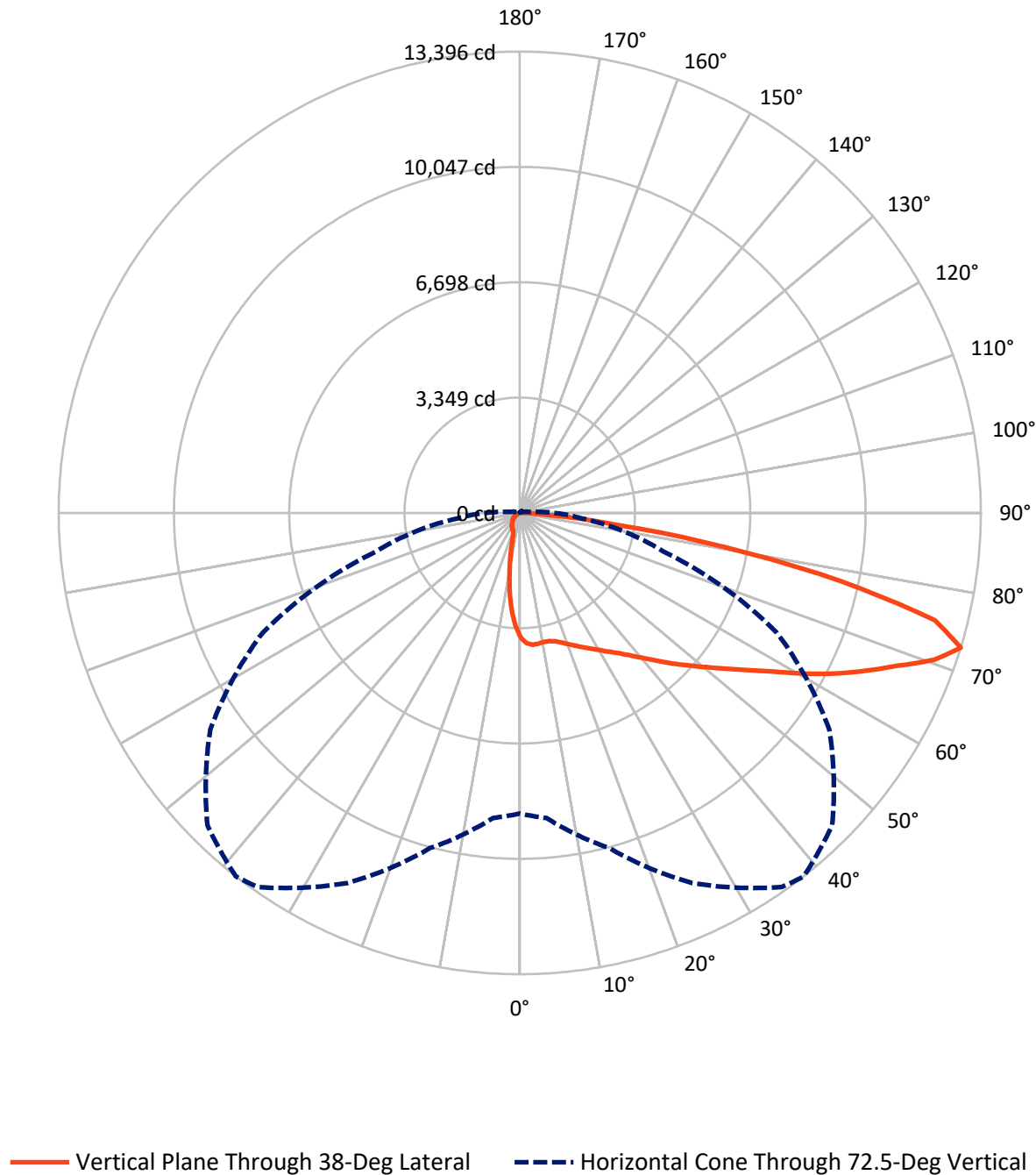
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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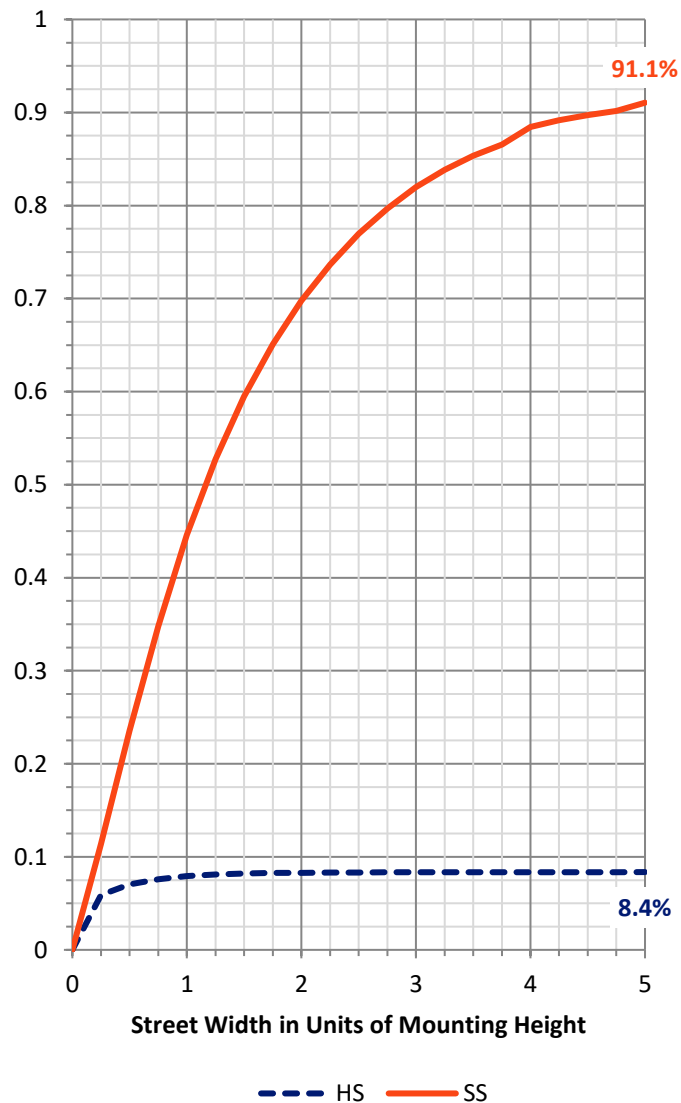
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.1	0.0	1655.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18011.9	0.0	18011.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	19667.0	0.0	19667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	1.6
10°-20°	753.6	3.8
20°-30°	1198.7	6.1
30°-40°	1802.1	9.2
40°-50°	2749.2	14.0
50°-60°	3885.5	19.8
60°-70°	4873.7	24.8
70°-80°	3644.2	18.5
80°-90°	451.9	2.3
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°	19667.0	100.0
0°-180°	19667.0	100.0

Coefficient of Utilization



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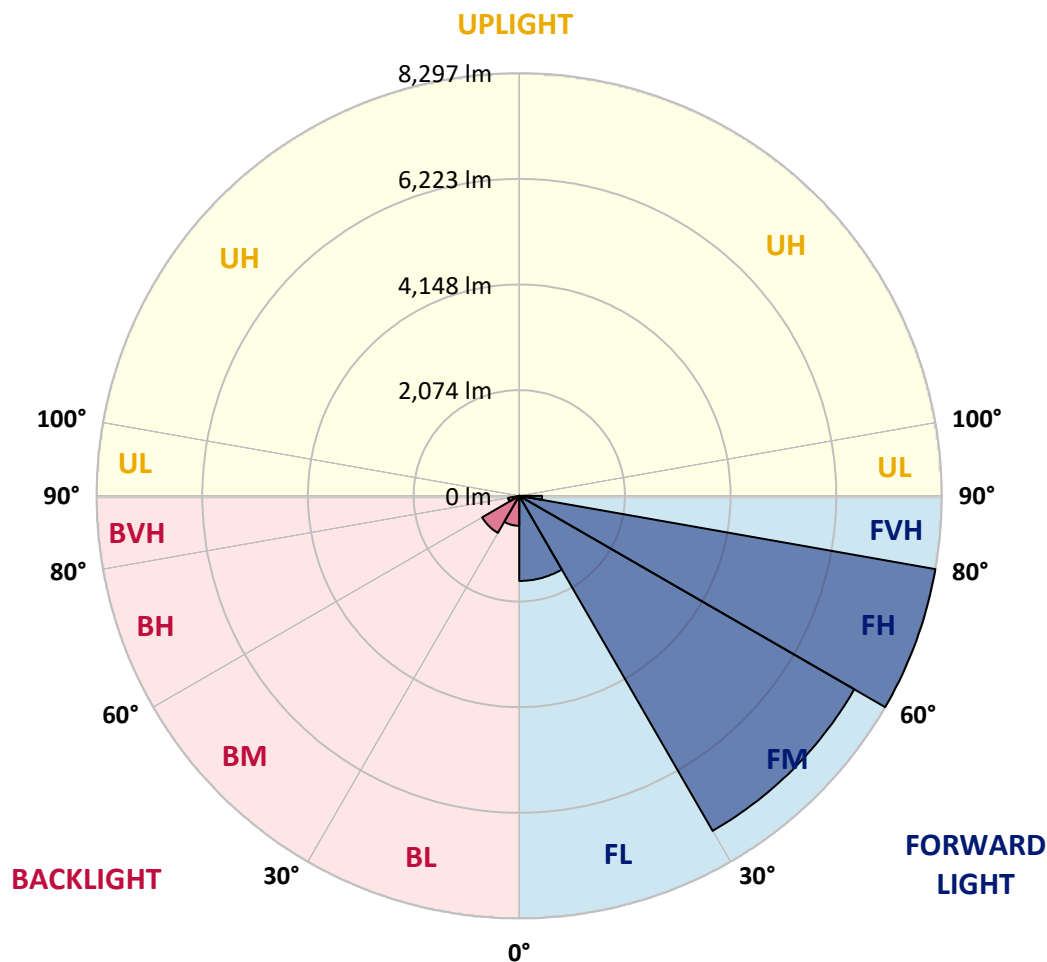
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1671.2	8.5			
FM	(30°-60°)	7596.3	38.6			
FH	(60°-80°)	8296.8	42.2			G4/12000
FVH	(80°-90°)	447.6	2.3			G3/500
BL	(0°-30°)	589.3	3.0	B2/1000		
BM	(30°-60°)	840.5	4.3	B1/1000		
BH	(60°-80°)	221.1	1.1	B1/500		G1/500
BVH	(80°-90°)	4.2	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7
2.5°	3838.9	3839.7	3830.7	3816.0	3797.2	3787.4	3771.1	3744.9	3717.2	3667.3	3613.4
5°	3917.3	3917.3	3905.8	3886.2	3856.0	3847.0	3816.0	3774.3	3717.2	3636.3	3545.6
7.5°	3909.1	3910.7	3895.2	3874.8	3844.6	3836.4	3798.8	3752.3	3681.2	3583.2	3467.2
10°	3866.6	3870.7	3858.5	3848.7	3820.9	3811.9	3776.8	3730.2	3659.2	3554.6	3421.5
12.5°	3823.3	3827.4	3831.5	3840.5	3823.3	3820.1	3792.3	3753.1	3685.3	3576.7	3426.4
15°	3795.6	3803.7	3833.1	3868.3	3872.3	3869.1	3851.1	3814.4	3745.7	3633.0	3461.5
17.5°	3795.6	3808.6	3869.9	3936.9	3960.6	3963.0	3947.5	3896.0	3814.4	3693.5	3494.2
20°	3827.4	3845.4	3941.0	4035.7	4074.9	4074.9	4044.7	3972.8	3877.2	3748.2	3516.2
22.5°	3909.1	3932.8	4052.9	4162.3	4204.0	4195.0	4154.1	4049.6	3942.6	3810.3	3544.0
25°	4070.0	4088.0	4212.9	4323.2	4348.5	4328.1	4276.7	4142.7	4025.9	3894.4	3594.6
27.5°	4277.5	4279.9	4409.0	4502.1	4486.6	4472.7	4408.2	4259.5	4146.0	4014.5	3682.0
30°	4505.4	4505.4	4618.9	4689.9	4642.6	4631.1	4566.6	4400.8	4299.5	4177.8	3806.2
32.5°	4725.9	4735.7	4828.0	4872.9	4819.8	4808.4	4745.5	4579.7	4503.7	4426.9	3999.8
35°	4939.1	4946.4	5033.8	5058.3	5007.7	5010.9	4966.0	4825.5	4796.9	4787.1	4291.4
37.5°	5145.7	5147.3	5236.4	5251.9	5226.6	5254.3	5258.4	5134.3	5187.4	5266.6	4702.2
40°	5334.4	5336.0	5424.2	5464.3	5507.5	5543.5	5575.3	5509.2	5684.8	5868.6	5191.4
42.5°	5485.5	5502.6	5614.5	5690.5	5804.8	5873.5	5960.0	5956.8	6276.9	6553.0	5782.8
45°	5618.6	5648.0	5804.0	5937.2	6133.2	6242.6	6378.2	6484.4	6943.4	7315.1	6381.5
47.5°	5794.2	5822.0	6000.1	6218.1	6479.5	6623.3	6847.9	7077.4	7676.1	8063.2	6966.3
50°	6041.7	6029.5	6205.1	6517.9	6853.6	7042.3	7362.4	7706.3	8403.0	8715.0	7310.2
52.5°	6305.5	6300.6	6430.5	6843.8	7294.7	7515.2	7938.3	8356.5	9098.1	9164.3	7467.8
55°	6632.2	6597.1	6706.6	7215.4	7818.2	8055.1	8553.3	9000.1	9651.9	9417.5	7547.0
57.5°	6974.5	6916.5	7021.0	7629.5	8408.7	8688.9	9234.5	9627.4	10020.2	9590.6	7546.2
60°	7328.1	7259.5	7383.7	8147.4	9142.2	9466.5	9972.9	10051.3	10364.1	9678.0	7490.7
62.5°	7623.8	7583.0	7767.6	8701.1	9961.4	10280.0	10530.7	10436.8	10654.1	9745.8	7360.8
65°	7936.6	7939.1	8237.2	9347.2	10832.1	11046.9	11068.2	10936.7	10896.6	9731.9	6921.4
67.5°	8359.7	8398.9	8896.4	10224.4	11679.1	11844.9	11843.3	11478.2	11073.9	9179.8	5947.0
70°	8807.3	8899.6	9656.0	11228.3	12603.7	12772.0	12685.4	11822.9	10427.0	7422.9	4208.9
72.5°	8732.2	8892.3	10078.2	11861.3	13267.8	13396.0	12833.2	10975.9	8241.3	4314.2	1792.0
75°	6736.8	6922.2	9241.0	11234.0	12571.0	12455.9	11026.5	8541.1	4503.7	1203.9	403.5
77.5°	3558.7	3657.5	6104.6	8558.2	9802.2	9561.2	7767.6	4738.1	1373.0	298.1	181.3
80°	1863.9	1886.8	2660.2	4855.7	6049.9	6051.5	4603.4	2081.2	566.0	152.7	121.7
82.5°	998.1	1017.7	1405.7	2243.7	3169.9	2873.4	1762.6	1145.1	329.2	86.6	116.8
85°	240.1	244.2	797.2	1025.1	1246.4	890.3	523.6	961.3	89.0	50.6	94.7
87.5°	92.3	93.9	295.7	443.5	317.7	205.8	245.0	358.6	11.4	19.6	14.7
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°	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7
2.5°	3580.8	3559.5	3507.2	3441.1	3382.3	3339.8	3276.1	3234.4	3206.7	3205.9	3195.2
5°	3490.1	3446.8	3334.1	3200.1	3078.4	2969.0	2839.9	2737.8	2661.9	2649.6	2623.5
7.5°	3392.9	3321.8	3148.7	2939.6	2735.4	2527.9	2287.0	2137.5	2009.3	1948.0	1941.5
10°	3333.3	3233.6	2987.8	2685.6	2365.4	2028.1	1712.8	1494.7	1337.1	1292.1	1258.7
12.5°	3321.0	3189.5	2863.6	2447.1	1989.7	1543.7	1194.9	963.0	837.2	797.2	786.6
15°	3333.3	3169.1	2759.1	2211.0	1609.1	1095.3	802.1	667.3	619.9	608.5	607.7
17.5°	3340.6	3144.6	2640.6	1948.8	1239.9	782.5	614.2	575.0	567.7	566.8	568.5
20°	3339.8	3107.0	2499.3	1656.4	922.1	615.0	555.4	547.2	545.6	546.4	545.6
22.5°	3334.1	3062.9	2344.2	1355.0	696.7	549.7	530.1	525.2	524.4	524.4	524.4
25°	3344.7	3027.8	2173.4	1066.7	574.2	519.5	507.2	503.1	502.3	502.3	500.7
27.5°	3383.1	3008.2	1986.4	820.9	518.7	492.5	482.7	481.9	479.4	478.6	480.3
30°	3445.2	3008.2	1781.4	638.7	485.2	464.7	457.4	455.8	454.9	454.1	454.9
32.5°	3554.6	3031.1	1557.6	530.9	453.3	433.7	428.8	431.3	428.8	428.8	428.8
35°	3752.3	3099.7	1323.2	463.1	419.8	403.5	398.6	401.9	400.2	400.2	399.4
37.5°	4040.6	3227.1	1087.1	422.3	390.4	373.3	366.7	371.6	370.0	370.0	369.2
40°	4391.8	3412.5	862.5	391.2	361.8	343.9	338.1	340.6	336.5	336.5	338.1
42.5°	4825.5	3647.7	666.5	361.0	333.2	316.1	312.8	310.4	303.0	298.9	299.8
45°	5307.4	3892.8	519.5	331.6	306.3	292.4	287.5	281.0	268.7	260.6	261.4
47.5°	5737.9	4081.4	422.3	303.0	281.8	271.2	263.8	251.6	233.6	223.8	224.6
50°	5964.1	4110.0	359.4	274.4	258.9	248.3	237.7	218.9	197.7	187.0	186.2
52.5°	6022.1	3976.1	312.8	248.3	236.0	223.8	209.9	184.6	160.9	149.5	147.8
55°	6043.3	3771.9	271.2	223.8	211.5	197.7	179.7	151.1	129.1	117.6	116.8
57.5°	5973.1	3467.2	238.5	201.7	187.0	169.9	147.8	120.9	99.6	90.7	90.7
60°	5817.1	3054.8	213.2	178.1	161.7	142.1	119.2	93.9	74.3	67.0	67.0
62.5°	5505.9	2520.6	189.5	153.6	138.0	117.6	96.4	71.1	52.3	48.2	49.0
65°	4918.6	1912.1	165.8	131.5	117.6	97.2	75.1	50.6	35.1	35.1	36.8
67.5°	4011.2	1328.1	141.3	111.9	101.3	79.2	57.2	35.1	24.5	27.8	31.0
70°	2655.3	744.9	120.9	92.3	86.6	62.9	42.5	23.7	19.6	26.1	31.9
72.5°	1002.2	290.0	101.3	74.3	75.1	48.2	30.2	18.0	18.0	28.6	37.6
75°	279.3	142.1	72.7	54.7	58.8	35.1	22.1	15.5	17.2	32.7	44.1
77.5°	164.2	104.5	47.4	31.9	40.0	24.5	14.7	12.3	14.7	27.8	42.5
80°	132.3	55.5	27.8	16.3	22.1	13.9	9.8	7.4	4.1	10.6	22.1
82.5°	132.3	33.5	13.1	11.4	11.4	7.4	4.9	3.3	0.8	0.0	5.7
85°	89.0	13.9	8.2	7.4	5.7	2.5	1.6	0.8	0.0	0.0	0.0
87.5°	14.7	5.7	3.3	1.6	0.8	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)