

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: P319798

Luminaire Tested: **GAN-SA4B-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16947 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

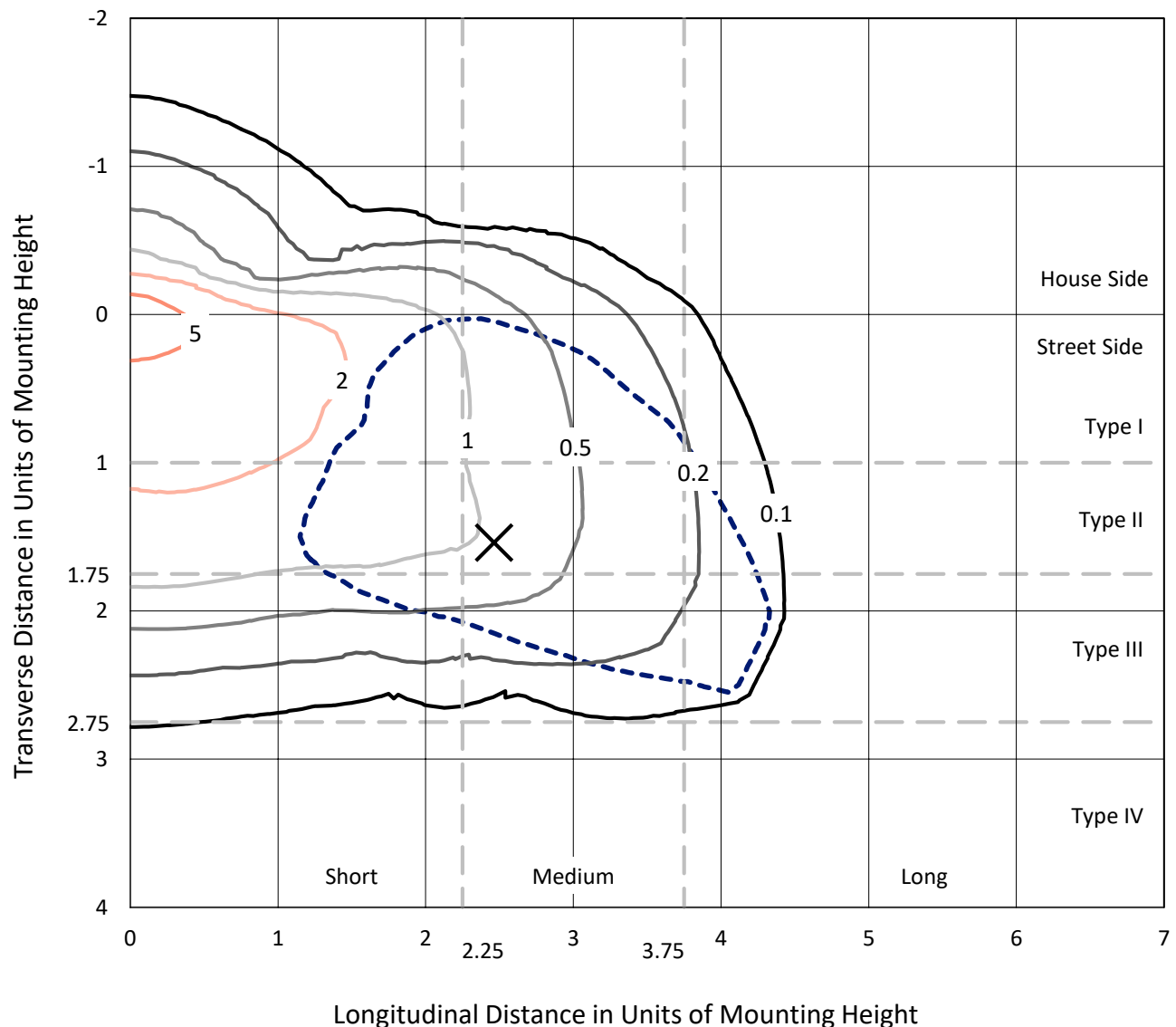
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

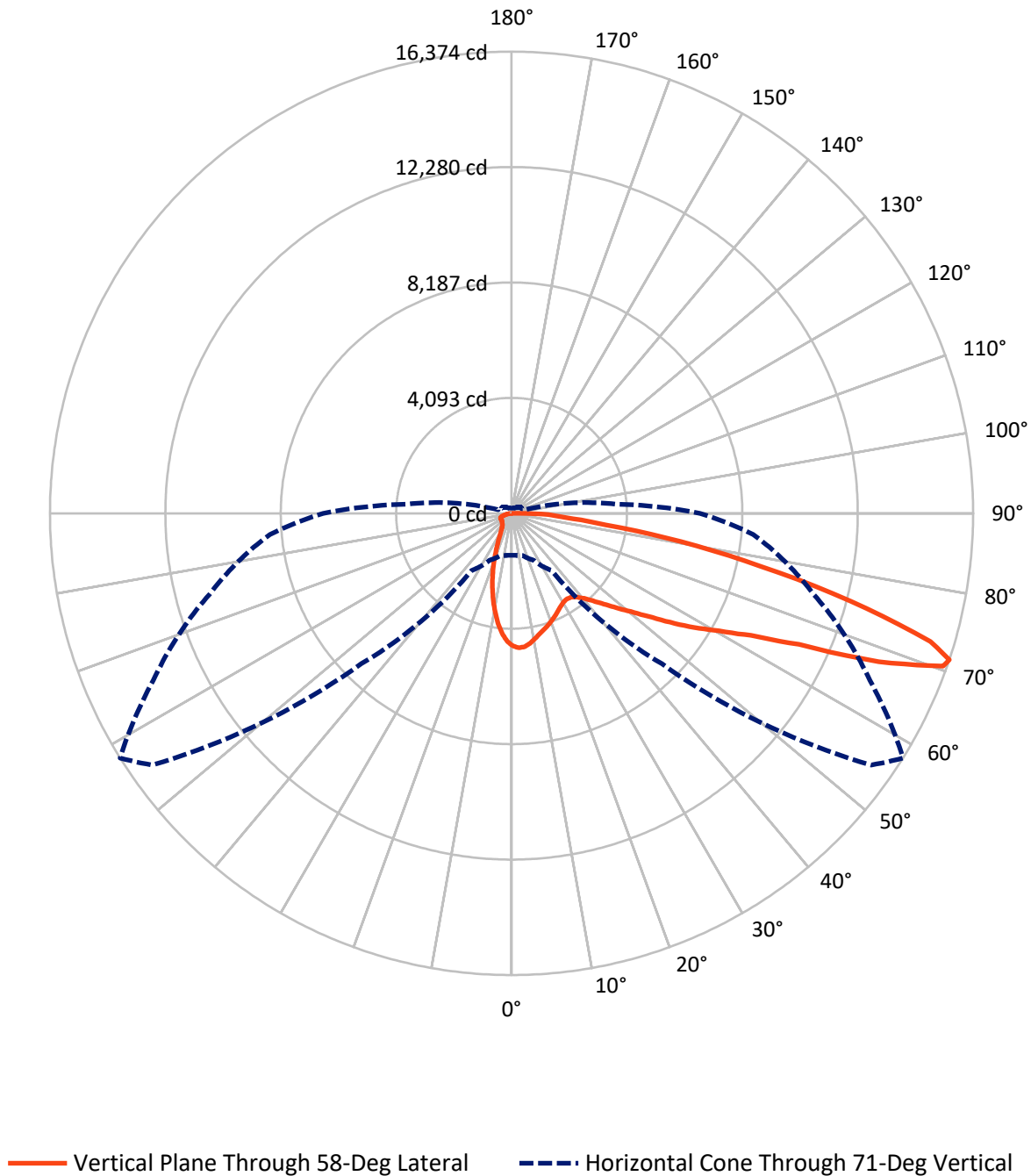
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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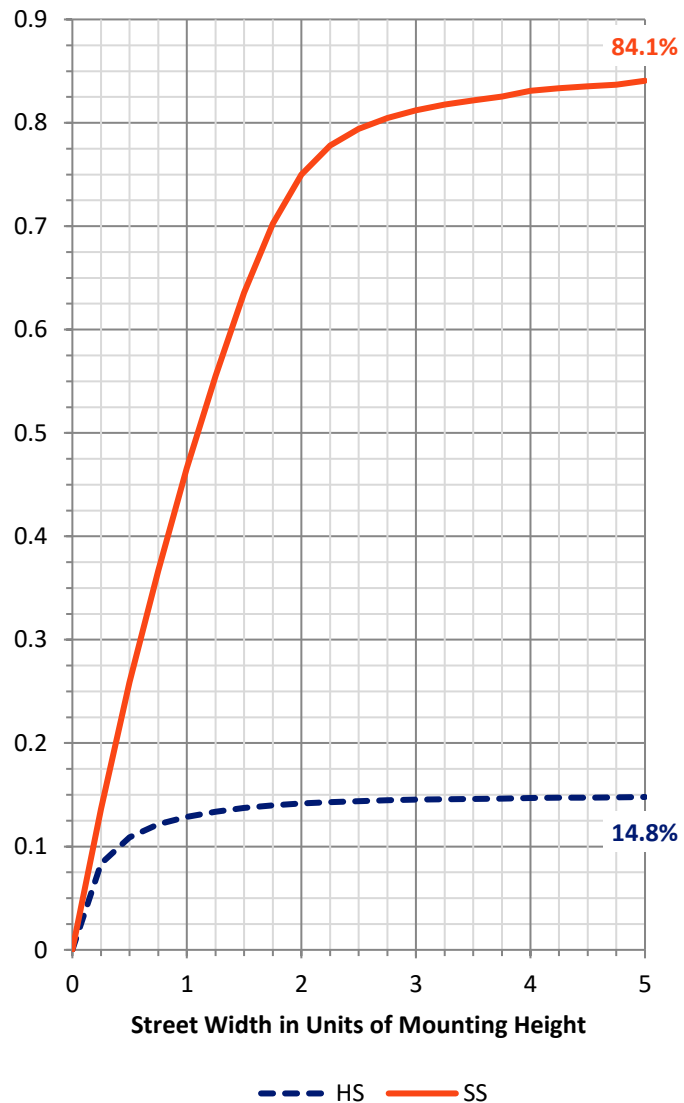
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2533.7	0.0	2533.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	14413.3	0.0	14413.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	16947.0	0.0	16947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.1	2.4
10°-20°	900.7	5.3
20°-30°	1144.7	6.8
30°-40°	1458.2	8.6
40°-50°	2067.8	12.2
50°-60°	3199.9	18.9
60°-70°	4356.3	25.7
70°-80°	2906.2	17.1
80°-90°	508.1	3.0
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°	16947.0	100.0
0°-180°	16947.0	100.0

Coefficient of Utilization



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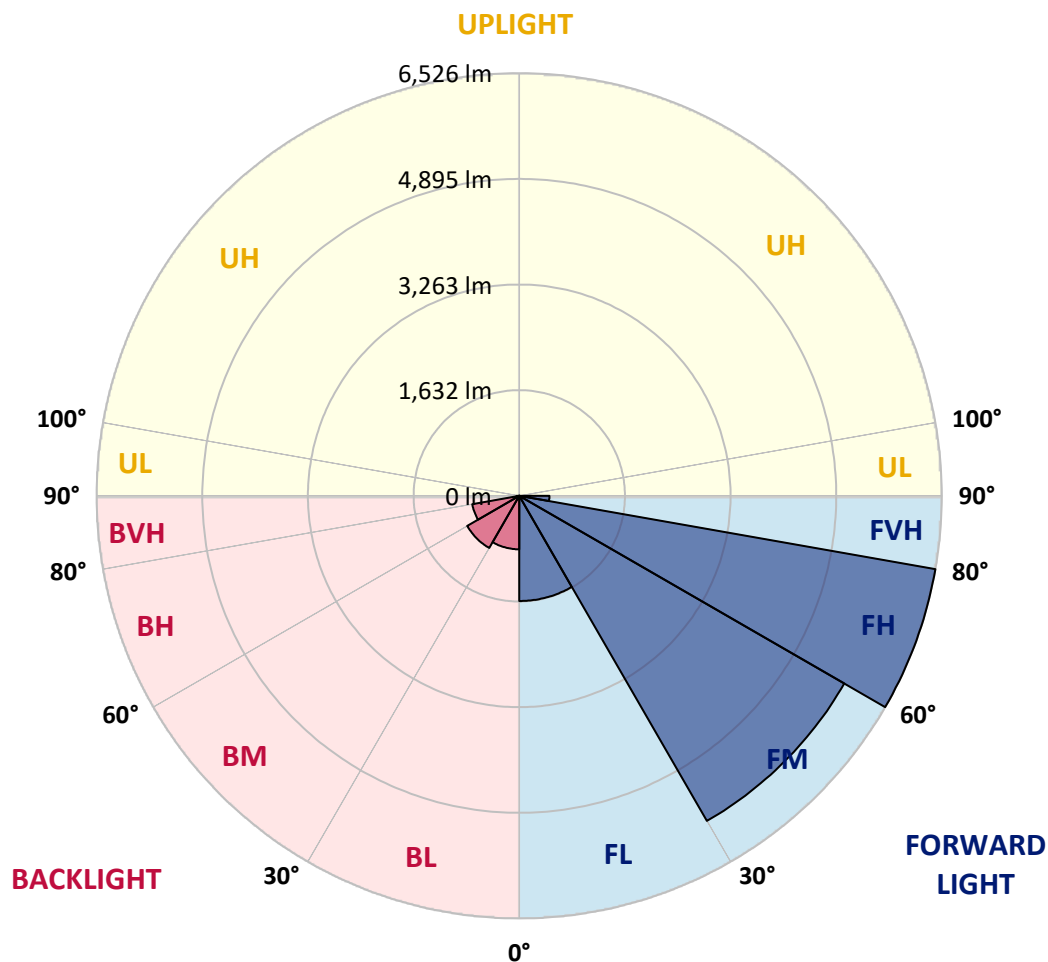
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1624.6	9.6			
FM	(30°-60°)	5796.7	34.2			
FH	(60°-80°)	6526.1	38.5			G3/7500
FVH	(80°-90°)	465.9	2.7			G3/500
BL	(0°-30°)	825.9	4.9	B2/1000		
BM	(30°-60°)	929.2	5.5	B1/1000		
BH	(60°-80°)	736.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	42.2	0.2			G1/100
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°	58°	65°	75°	85°
0°	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5
2.5°	4820.0	4813.5	4815.9	4811.2	4799.9	4788.7	4772.2	4775.1	4752.1	4717.9	4675.4
5°	4729.1	4726.7	4744.4	4754.5	4762.7	4756.3	4751.5	4757.4	4723.8	4676.6	4602.8
7.5°	4538.4	4512.5	4534.9	4568.5	4600.4	4624.6	4656.5	4660.6	4639.4	4589.8	4493.0
10°	4267.5	4242.7	4275.7	4328.3	4392.0	4449.9	4514.2	4526.0	4530.2	4485.3	4367.8
12.5°	3986.5	3967.6	4000.6	4074.4	4180.1	4269.2	4372.0	4389.7	4426.3	4396.2	4252.1
15°	3735.0	3727.9	3768.0	3840.7	3962.3	4098.6	4246.8	4279.3	4341.3	4331.2	4161.8
17.5°	3517.8	3516.0	3546.7	3622.8	3757.4	3929.8	4122.2	4177.1	4269.2	4281.0	4087.4
20°	3356.0	3352.5	3373.7	3429.8	3568.5	3763.9	3987.7	4063.2	4196.0	4237.4	4010.7
22.5°	3269.2	3268.6	3269.2	3295.8	3409.1	3591.0	3856.6	3948.7	4124.6	4202.5	3925.7
25°	3254.5	3252.7	3239.7	3236.8	3301.1	3446.3	3726.7	3828.3	4056.7	4178.3	3844.8
27.5°	3292.8	3295.2	3278.1	3250.3	3263.3	3351.3	3614.0	3722.6	4002.4	4173.6	3788.7
30°	3372.5	3371.4	3356.6	3327.7	3302.3	3315.9	3533.7	3642.3	3965.8	4194.3	3750.3
32.5°	3460.5	3467.0	3464.0	3448.1	3410.3	3356.0	3509.5	3615.7	3955.2	4243.9	3733.8
35°	3566.2	3573.2	3594.5	3606.9	3562.6	3475.2	3561.4	3653.5	3985.9	4337.1	3760.4
37.5°	3666.5	3684.8	3744.4	3797.0	3759.2	3661.8	3699.6	3765.1	4080.9	4484.1	3831.8
40°	3782.2	3798.2	3895.6	4007.1	4001.2	3900.3	3922.1	3965.8	4248.6	4694.9	3961.1
42.5°	3896.2	3928.0	4069.1	4227.3	4272.8	4183.6	4218.5	4241.5	4484.7	4974.1	4186.6
45°	4047.9	4082.1	4278.1	4468.8	4575.0	4524.8	4580.3	4589.2	4781.6	5354.3	4514.2
47.5°	4277.5	4316.5	4544.9	4745.0	4907.4	4912.7	5004.2	5000.7	5152.4	5789.3	4926.9
50°	4635.2	4691.3	4878.5	5065.6	5262.8	5372.6	5494.8	5477.6	5596.9	6252.7	5402.1
52.5°	5104.0	5129.9	5268.7	5406.8	5651.8	5897.9	6073.3	6057.9	6101.0	6729.1	5941.6
55°	5589.8	5609.3	5666.5	5742.1	6071.5	6472.9	6843.6	6819.4	6710.2	7223.8	6474.7
57.5°	6026.6	6066.2	6105.7	6137.0	6494.2	7073.9	7631.7	7633.5	7371.4	7757.5	7025.5
60°	6094.5	6129.4	6390.9	6637.6	7217.3	7875.5	8475.3	8457.6	8055.6	8336.6	7639.4
62.5°	5387.3	5465.8	5902.7	6559.1	7913.9	9341.9	9551.5	9529.6	8873.8	9050.3	8354.3
65°	3860.7	3949.9	4477.0	5463.5	7576.2	10957.6	11493.6	11199.7	9989.5	9928.1	9191.4
67.5°	2227.3	2248.6	2477.0	3269.2	5768.7	11042.0	14456.5	14045.0	11722.1	10924.0	9601.1
70°	1647.0	1646.4	1700.7	2011.8	3121.6	9011.9	15865.6	16234.6	13546.2	11251.6	9022.0
71°	1489.4	1491.2	1552.0	1831.2	2472.3	7543.2	15566.3	16373.9	14026.7	11089.9	8602.8
72.5°	1273.9	1279.8	1364.2	1642.3	2079.7	5202.0	14277.0	15538.0	14254.6	10690.8	7947.0
75°	966.4	979.9	1096.8	1384.3	1900.8	2638.2	10478.3	12407.5	12663.1	9433.4	5905.0
77.5°	689.5	704.8	837.1	1164.1	1807.0	1988.2	7017.2	9050.3	9318.9	6045.5	2663.6
80°	435.7	454.0	553.7	926.2	1697.8	1887.9	4409.7	6083.3	5081.5	1934.5	677.7
82.5°	255.6	269.8	343.6	605.1	1386.7	1818.2	2594.5	3371.9	1977.6	584.4	308.2
85°	148.2	154.7	214.3	385.5	1007.1	1716.1	1906.2	1884.9	858.3	285.7	145.8
87.5°	69.1	76.7	126.9	201.3	559.0	1243.8	1506.5	1301.7	533.7	134.0	68.5
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°	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5	4695.5
2.5°	4654.7	4644.7	4602.8	4565.6	4526.6	4475.9	4419.8	4412.7	4378.4	4384.9	4373.1
5°	4562.6	4537.2	4436.3	4344.8	4236.8	4140.0	4034.9	3986.5	3916.8	3912.1	3894.4
7.5°	4431.0	4383.8	4227.3	4053.8	3880.2	3714.9	3551.4	3444.0	3334.2	3287.5	3283.4
10°	4282.8	4202.5	3972.3	3715.5	3465.2	3223.8	2990.0	2817.0	2661.2	2587.4	2584.4
12.5°	4142.3	4023.7	3707.8	3358.4	3016.0	2703.1	2382.6	2155.3	1959.9	1894.4	1866.6
15°	4023.1	3856.0	3450.5	3003.6	2588.0	2153.5	1788.7	1549.6	1369.0	1306.4	1294.6
17.5°	3907.4	3692.5	3186.6	2645.3	2142.9	1665.3	1299.9	1122.2	1026.0	1000.6	1000.0
20°	3792.3	3524.2	2910.9	2278.7	1712.5	1245.6	999.4	919.7	887.3	884.3	879.6
22.5°	3661.8	3346.0	2621.0	1910.9	1336.5	979.4	849.5	817.6	813.5	824.1	824.1
25°	3539.6	3168.9	2327.1	1550.8	1039.6	817.0	758.6	752.1	763.3	782.2	784.0
27.5°	3425.7	2998.3	2040.2	1230.8	832.9	719.6	695.4	703.1	723.1	745.0	745.6
30°	3331.8	2837.1	1761.5	969.9	703.7	647.0	642.9	658.2	680.1	697.2	701.3
32.5°	3259.2	2699.6	1492.3	779.8	619.3	592.7	596.2	609.2	622.8	632.2	638.7
35°	3225.5	2581.5	1243.8	657.6	565.5	550.8	555.5	562.6	568.5	575.6	580.9
37.5°	3231.4	2490.0	1021.9	581.5	529.5	521.8	521.8	521.8	521.8	525.4	526.0
40°	3286.3	2437.5	841.2	533.1	505.3	497.1	490.6	484.7	479.9	482.3	481.1
42.5°	3426.8	2432.7	709.0	502.4	485.8	472.3	459.3	451.0	445.1	447.5	448.6
45°	3665.3	2491.8	619.8	480.5	467.5	446.9	430.3	421.5	417.4	425.0	426.2
47.5°	3974.1	2620.5	565.5	464.6	450.4	423.3	405.6	397.3	398.5	409.7	412.6
50°	4372.0	2829.4	539.6	454.6	438.6	403.2	384.9	377.8	381.4	397.3	400.8
52.5°	4808.8	3130.5	542.5	451.6	430.9	388.4	369.0	360.7	366.6	381.4	384.3
55°	5312.9	3492.4	591.5	455.7	419.7	379.0	356.0	341.8	346.5	360.1	362.5
57.5°	5873.2	3906.8	690.1	454.6	405.6	370.1	342.4	321.1	324.7	332.9	335.3
60°	6456.4	4407.4	843.0	458.1	399.1	359.5	324.1	297.5	296.3	303.4	304.6
62.5°	7156.5	4986.5	1017.7	460.5	403.2	345.9	299.9	273.9	270.4	272.1	273.3
65°	7877.9	5405.6	952.2	451.0	416.2	334.7	278.6	250.9	244.4	243.2	243.8
67.5°	7900.3	4956.4	667.7	432.1	421.5	328.8	262.7	231.4	220.8	216.6	216.1
70°	7085.1	4026.6	520.1	412.0	400.2	319.4	247.9	215.5	199.5	193.0	192.4
71°	6687.2	3706.7	492.9	402.0	384.3	309.9	241.4	208.4	191.9	184.8	183.6
72.5°	6063.2	3322.9	459.9	386.1	353.6	285.7	229.0	198.3	181.2	173.0	171.2
75°	4351.3	2173.0	394.9	344.2	292.8	227.9	200.7	178.3	163.5	153.5	152.3
77.5°	1676.5	864.8	298.7	286.3	224.3	178.3	165.3	154.1	143.4	133.4	132.8
80°	518.3	386.7	217.8	215.5	162.3	132.8	128.7	125.7	121.6	111.0	108.6
82.5°	276.9	222.0	149.9	139.3	106.3	88.5	93.3	94.5	95.0	83.8	82.6
85°	132.2	117.5	84.4	79.1	62.0	49.6	57.3	62.0	62.6	51.4	47.8
87.5°	63.2	61.4	39.6	30.1	23.0	16.5	20.1	24.8	27.2	19.5	17.1
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)