

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: P320111

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320111
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-SA7A-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA 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: 23025 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

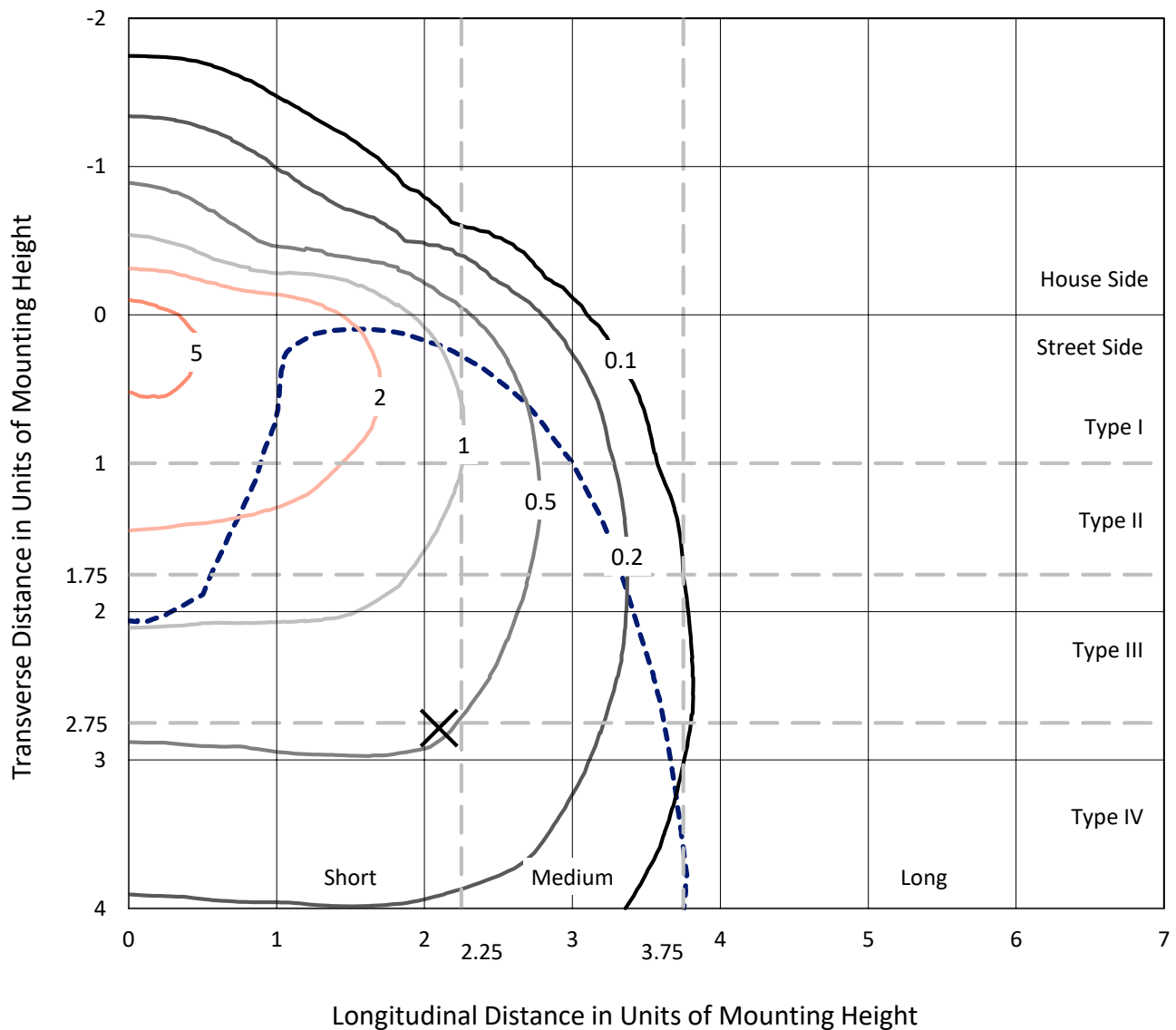
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

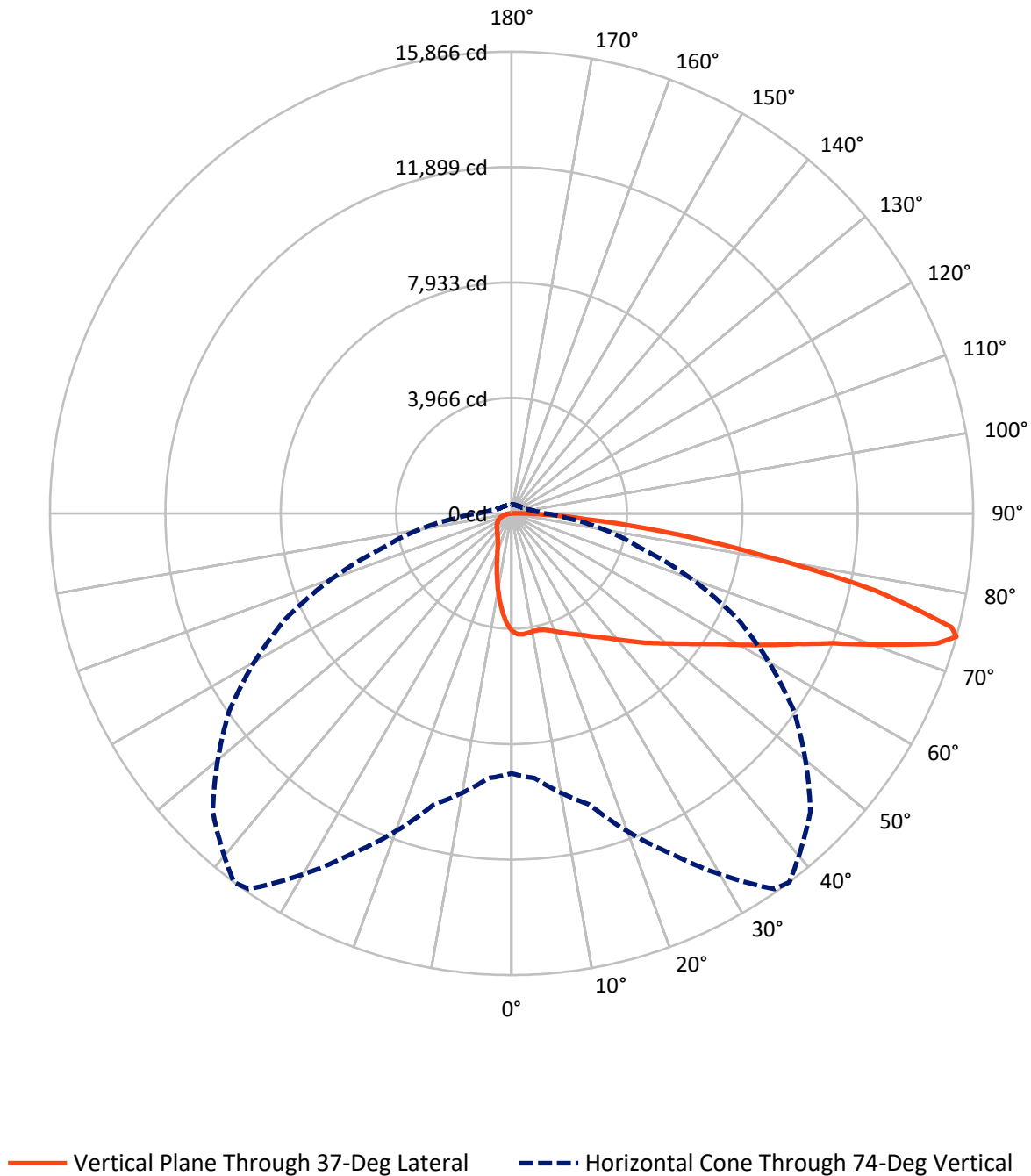
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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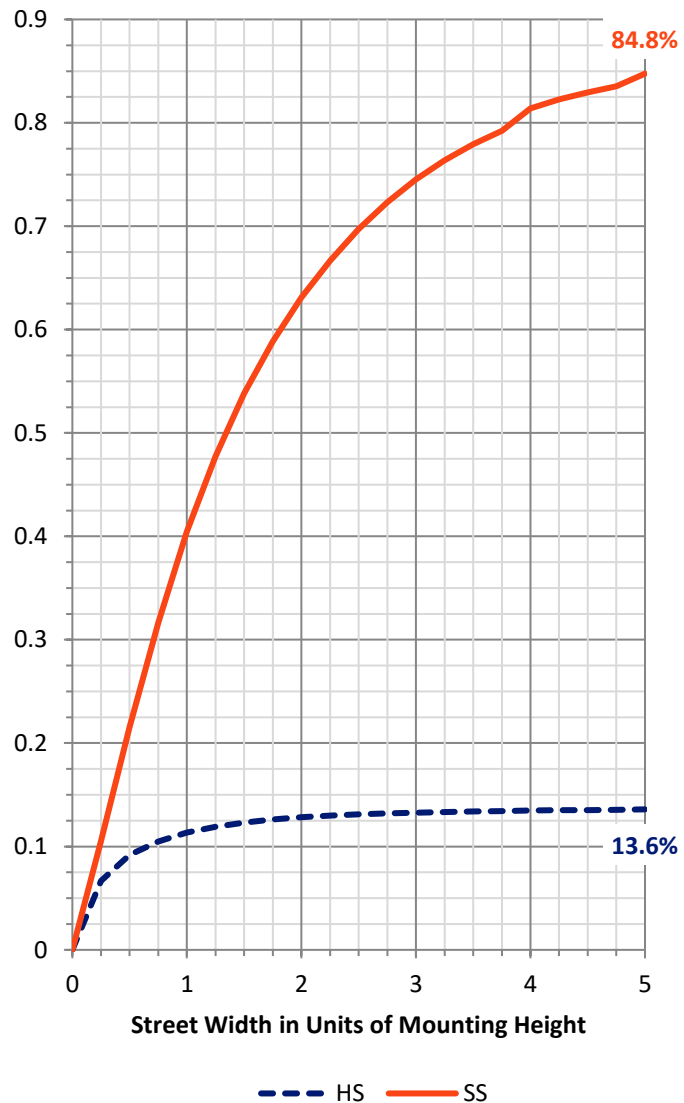
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3168.1	0.0	3168.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	19856.9	0.0	19856.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	23025.0	0.0	23025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	1.6
10°-20°	915.7	4.0
20°-30°	1411.0	6.1
30°-40°	2051.8	8.9
40°-50°	3019.9	13.1
50°-60°	4240.9	18.4
60°-70°	5367.6	23.3
70°-80°	4726.4	20.5
80°-90°	934.5	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°	23025.0	100.0
0°-180°	23025.0	100.0

Coefficient of Utilization



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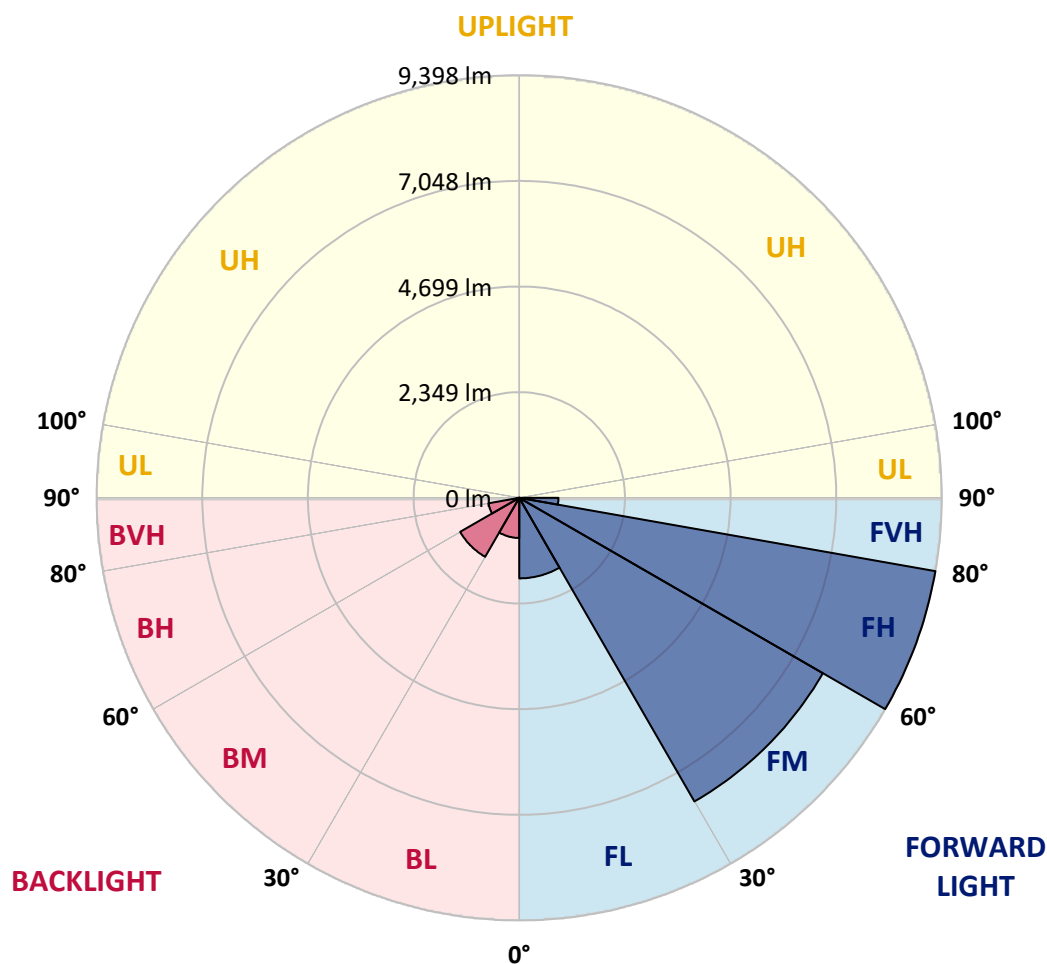
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1791.6	7.8			
FM	(30°-60°)	7796.5	33.9			
FH	(60°-80°)	9397.6	40.8			G4/12000
FVH	(80°-90°)	871.2	3.8			G5
BL	(0°-30°)	892.4	3.9	B2/1000		
BM	(30°-60°)	1516.0	6.6	B2/2500		
BH	(60°-80°)	696.4	3.0	B2/1000		G2/1000
BVH	(80°-90°)	63.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9
2.5°	4195.6	4196.4	4195.6	4189.1	4173.7	4160.7	4150.2	4134.8	4100.7	4074.8	4035.8
5°	4235.3	4230.5	4227.2	4215.1	4190.7	4176.1	4155.9	4126.7	4070.7	4018.8	3955.5
7.5°	4216.7	4211.0	4203.7	4189.1	4161.5	4149.4	4121.0	4082.9	4015.6	3947.4	3856.6
10°	4159.1	4157.5	4154.2	4151.0	4127.5	4117.7	4091.8	4051.2	3984.7	3902.0	3795.8
12.5°	4095.0	4099.1	4112.1	4129.1	4118.6	4113.7	4097.5	4069.9	4001.8	3912.5	3784.4
15°	4054.5	4065.8	4100.7	4145.3	4154.2	4152.6	4148.6	4130.7	4058.5	3959.6	3810.4
17.5°	4040.7	4059.3	4125.9	4199.7	4225.6	4231.3	4232.9	4202.1	4121.8	4017.2	3837.1
20°	4065.8	4089.4	4186.7	4288.1	4329.4	4332.7	4325.4	4271.8	4181.8	4066.6	3851.7
22.5°	4142.1	4163.2	4284.8	4399.2	4446.2	4451.1	4429.2	4348.1	4245.1	4125.0	3872.0
25°	4288.9	4314.8	4436.5	4550.9	4575.2	4576.0	4544.4	4443.8	4327.8	4207.0	3915.8
27.5°	4480.3	4506.2	4615.7	4727.7	4714.7	4707.4	4664.4	4563.8	4435.7	4319.7	3993.7
30°	4693.6	4722.0	4825.8	4905.3	4874.5	4859.9	4825.0	4695.2	4585.7	4473.8	4112.9
32.5°	4914.2	4940.2	5031.0	5085.3	5046.4	5039.9	4987.2	4868.8	4781.2	4709.0	4305.9
35°	5140.5	5159.1	5248.4	5279.2	5227.3	5225.7	5211.1	5102.4	5047.2	5081.3	4586.5
37.5°	5371.6	5376.5	5452.7	5454.4	5439.0	5445.4	5460.9	5392.7	5408.1	5514.4	4951.5
40°	5577.7	5590.6	5645.8	5662.8	5689.6	5712.3	5789.3	5744.7	5864.0	6052.1	5405.7
42.5°	5730.1	5755.3	5843.7	5887.5	5974.3	6009.9	6118.6	6160.0	6400.1	6682.3	5945.9
45°	5859.1	5898.0	6040.0	6130.0	6276.8	6339.2	6495.0	6633.6	7005.9	7366.0	6514.4
47.5°	5998.6	6048.1	6225.7	6397.6	6597.2	6667.7	6950.8	7158.4	7652.3	8053.8	7050.5
50°	6203.8	6241.9	6415.5	6685.6	6934.6	7025.4	7417.1	7714.8	8309.3	8709.1	7515.3
52.5°	6490.1	6475.5	6622.3	7001.1	7335.2	7447.1	7915.1	8306.9	8975.2	9302.0	7907.8
55°	6778.0	6753.7	6856.7	7331.2	7802.4	7920.0	8463.4	8901.4	9608.6	9835.7	8208.7
57.5°	7098.4	7052.2	7138.9	7703.4	8334.4	8474.8	9077.4	9533.2	10231.5	10267.2	8400.1
60°	7428.5	7366.0	7463.4	8164.9	9010.1	9175.5	9796.0	10149.6	10818.7	10612.7	8461.8
62.5°	7717.2	7673.4	7823.5	8680.0	9771.6	9953.3	10501.6	10804.9	11397.8	10756.3	8239.5
65°	7969.5	7976.8	8236.3	9259.0	10620.8	10814.7	11311.0	11612.7	11853.6	10671.1	7719.7
67.5°	8270.4	8311.7	8754.6	10021.4	11689.8	11902.3	12488.7	12493.5	12108.3	10171.5	6696.1
70°	8709.1	8794.3	9467.5	11079.1	13209.7	13501.7	13954.3	13011.0	11750.6	8817.0	5268.6
72.5°	9098.5	9257.4	10225.8	12289.2	15062.2	15283.6	14811.6	12712.5	10255.8	6607.7	3282.4
74°	8940.3	9137.4	10363.7	12885.3	15759.7	15865.9	14522.0	11841.5	8551.0	4576.0	1907.6
75°	8599.7	8813.8	10162.6	12879.6	15671.3	15612.1	13822.9	10846.3	7042.4	3121.0	1269.3
77.5°	6940.2	7166.5	8563.2	11038.5	12849.6	12793.6	10618.4	7276.0	3084.5	1023.6	644.8
80°	4035.0	4207.8	5315.7	7010.0	8664.5	8765.9	6983.2	3600.3	1213.3	575.0	437.2
82.5°	1792.4	1911.7	2567.8	3578.4	5228.9	5359.5	3657.1	1886.5	749.4	349.6	262.8
85°	1176.0	1264.4	1558.9	1704.0	2490.0	2579.2	1790.0	1468.8	494.7	192.2	193.0
87.5°	845.9	931.1	1158.2	1011.4	1142.8	1082.0	974.1	1359.3	198.7	109.5	64.9
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°	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9	4056.9
2.5°	4018.8	4005.8	3976.6	3921.5	3890.6	3864.7	3821.7	3796.6	3785.2	3784.4	3789.3
5°	3919.0	3889.0	3813.6	3721.1	3647.3	3580.0	3496.5	3446.2	3410.5	3389.4	3395.1
7.5°	3803.1	3756.0	3637.6	3490.0	3371.6	3241.0	3112.0	3035.0	2975.0	2930.4	2938.5
10°	3723.6	3658.7	3485.9	3273.4	3076.3	2886.6	2708.9	2602.7	2518.3	2453.5	2458.3
12.5°	3696.8	3609.2	3369.9	3086.1	2809.5	2550.0	2318.0	2155.0	2068.2	1994.4	2000.1
15°	3700.9	3583.3	3272.6	2917.4	2569.4	2242.6	1961.1	1770.5	1652.9	1601.8	1602.7
17.5°	3704.1	3553.2	3170.4	2736.5	2331.8	1955.5	1649.7	1456.7	1345.5	1298.5	1299.3
20°	3693.6	3504.6	3043.9	2528.9	2083.6	1691.9	1395.8	1232.0	1147.6	1111.2	1111.2
22.5°	3679.8	3447.0	2901.2	2320.4	1838.7	1463.1	1214.2	1089.3	1040.6	1016.3	1015.4
25°	3686.3	3404.0	2755.2	2106.3	1613.2	1280.7	1093.3	1010.6	978.1	962.7	961.9
27.5°	3721.1	3383.7	2620.5	1893.0	1416.1	1143.6	1012.2	953.8	932.7	923.0	923.0
30°	3784.4	3383.7	2480.2	1711.3	1252.3	1042.2	949.7	910.0	895.4	888.9	888.9
32.5°	3894.7	3402.4	2344.8	1531.3	1121.7	962.7	897.8	871.1	859.7	856.5	856.5
35°	4084.5	3465.7	2212.6	1361.0	1016.3	897.8	848.4	833.0	824.8	824.0	826.5
37.5°	4351.3	3594.6	2088.5	1235.2	941.6	845.1	807.0	794.8	790.0	794.0	797.3
40°	4687.1	3769.8	1975.7	1121.7	884.9	802.9	768.9	760.8	758.3	764.0	768.9
42.5°	5092.6	4006.6	1883.3	1039.8	841.1	767.3	736.4	726.7	724.3	730.8	737.3
45°	5531.4	4261.3	1818.4	978.9	807.0	740.5	708.1	697.5	692.6	695.9	703.2
47.5°	5930.5	4502.2	1792.4	936.0	774.6	717.8	682.9	669.9	661.8	660.2	665.9
50°	6267.1	4681.4	1804.6	910.0	748.6	692.6	658.6	644.0	631.8	624.5	628.6
52.5°	6512.0	4794.2	1816.0	898.7	728.3	665.1	631.8	618.0	601.8	589.6	589.6
55°	6689.6	4820.1	1790.8	889.7	712.9	635.1	601.8	588.8	572.6	558.8	557.2
57.5°	6759.4	4747.1	1697.5	876.8	702.4	606.7	570.2	560.4	546.7	530.4	529.6
60°	6665.3	4521.7	1517.5	849.2	688.6	583.2	538.5	532.1	525.6	510.2	509.3
62.5°	6287.3	4026.9	1284.7	793.2	661.0	558.0	509.3	512.6	513.4	502.9	501.2
65°	5602.0	3347.2	1057.6	720.2	619.6	528.0	479.3	494.7	503.7	502.0	499.6
67.5°	4606.0	2605.1	896.2	643.2	565.3	486.6	446.9	464.7	472.0	477.7	476.1
70°	3418.6	1837.0	741.3	562.1	499.6	438.0	404.7	413.6	408.8	415.3	417.7
72.5°	1906.0	1102.2	604.2	481.0	431.5	381.2	357.7	356.1	345.5	345.5	345.5
74°	1143.6	808.6	531.2	430.7	390.1	343.9	323.6	316.3	306.6	307.4	306.6
75°	919.7	695.1	487.4	397.4	360.9	322.0	301.7	292.0	284.7	284.7	283.9
77.5°	580.7	528.0	392.6	316.3	288.7	265.2	251.4	238.5	238.5	237.6	236.8
80°	438.8	420.1	305.8	239.3	221.4	203.6	194.7	189.0	189.0	191.4	190.6
82.5°	300.9	316.3	214.9	167.1	158.2	145.2	143.6	144.4	141.9	138.7	137.9
85°	219.8	237.6	145.2	105.4	96.5	88.4	94.9	98.1	94.1	86.8	83.5
87.5°	84.4	155.7	77.9	43.8	40.6	34.9	40.6	42.2	45.4	35.7	36.5
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)