

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: P319589

Luminaire Tested: **GAN-SA5A-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319589
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-SA5A-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA 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: 19481 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

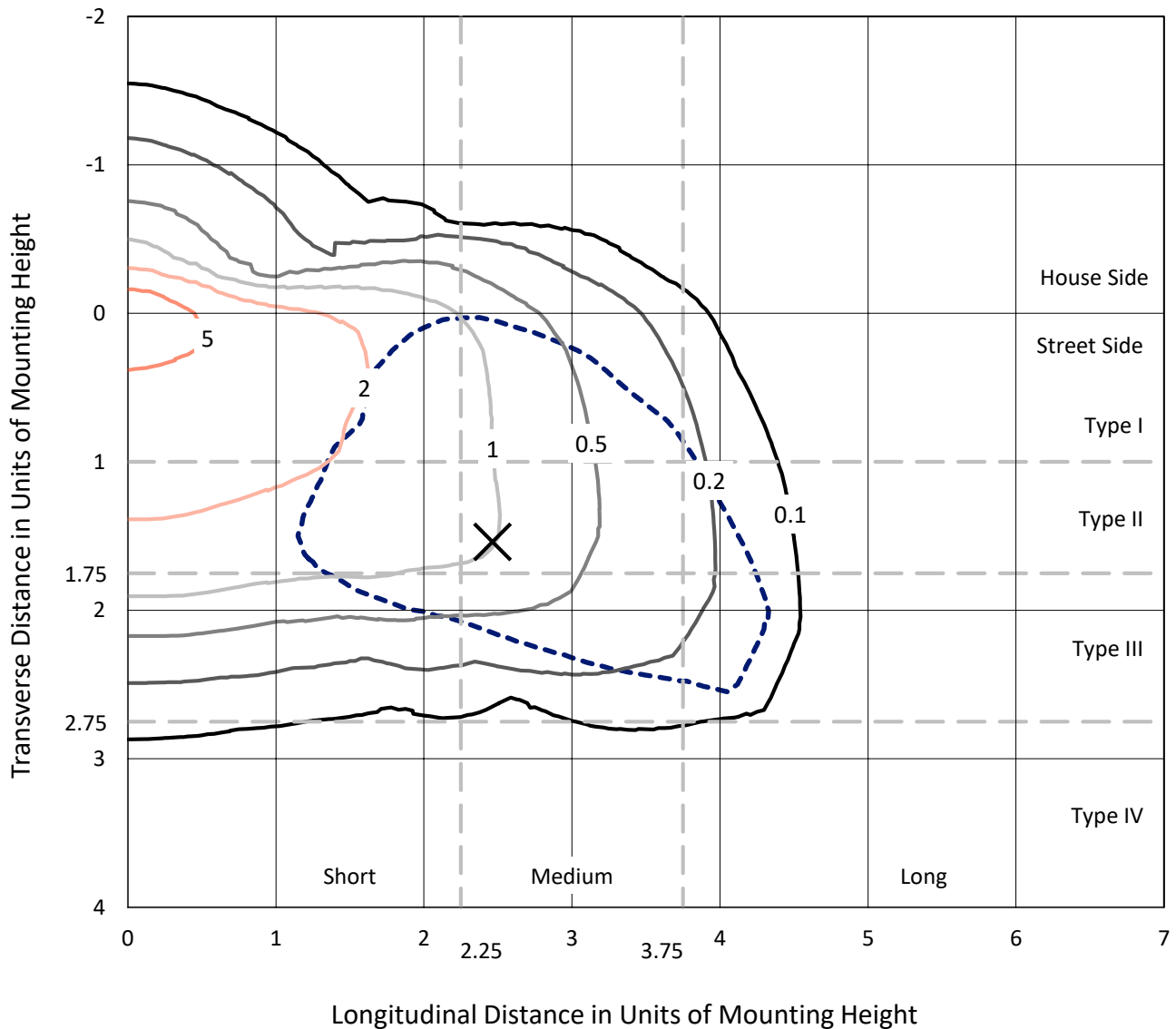
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

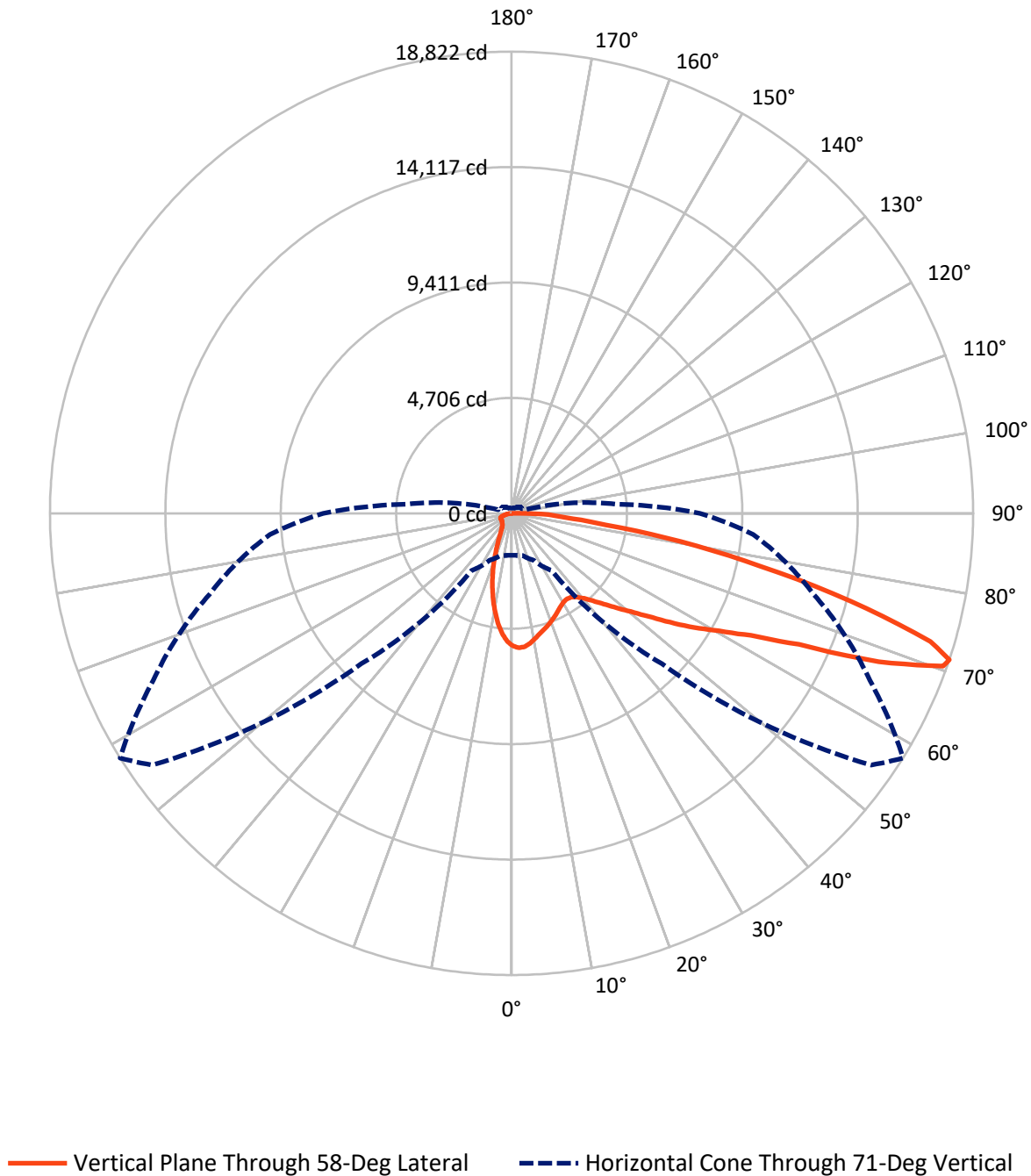
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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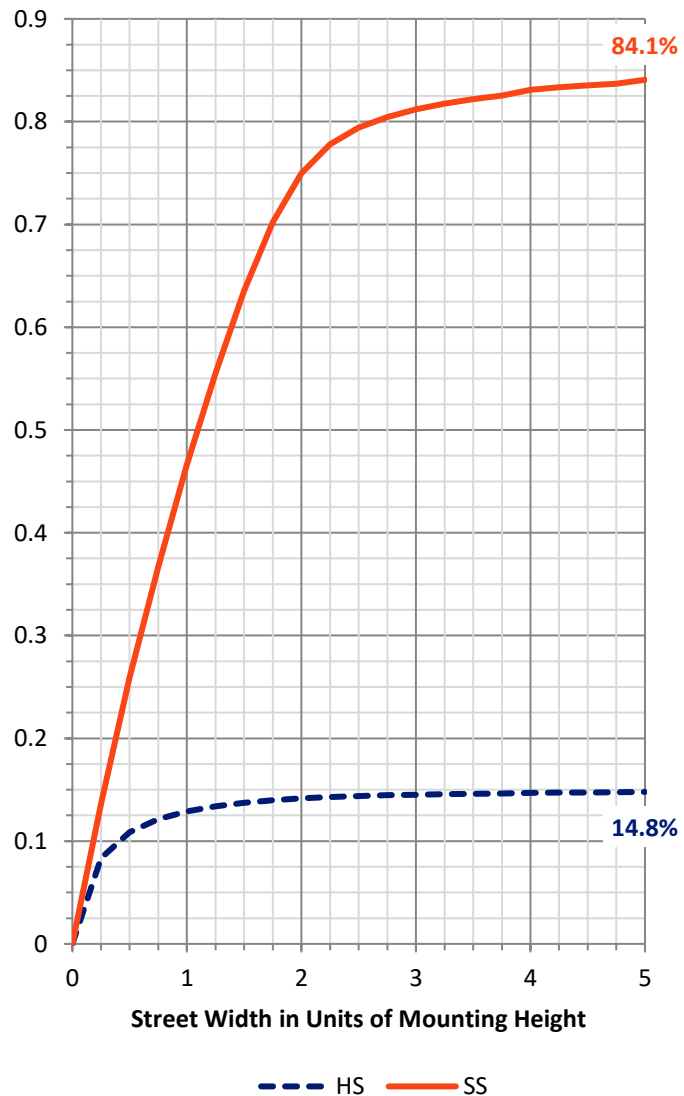
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2912.5	0.0	2912.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	16568.5	0.0	16568.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	19481.0	0.0	19481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.6	2.4
10°-20°	1035.4	5.3
20°-30°	1315.9	6.8
30°-40°	1676.2	8.6
40°-50°	2376.9	12.2
50°-60°	3678.4	18.9
60°-70°	5007.7	25.7
70°-80°	3340.7	17.1
80°-90°	584.1	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°	19481.0	100.0
0°-180°	19481.0	100.0

Coefficient of Utilization



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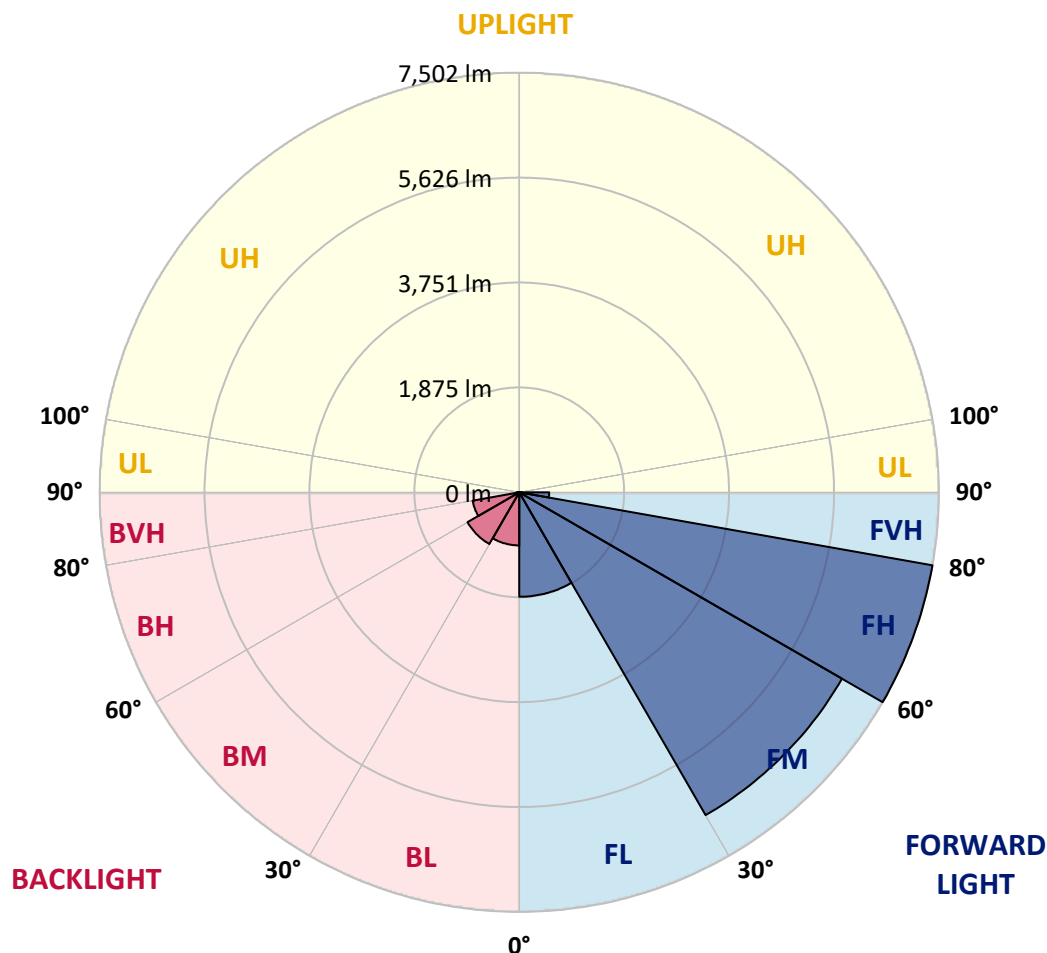
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1867.6	9.6			
FM	(30°-60°)	6663.4	34.2			
FH	(60°-80°)	7501.9	38.5			G4/12000
FVH	(80°-90°)	535.5	2.7			G4/750
BL	(0°-30°)	949.4	4.9	B2/1000		
BM	(30°-60°)	1068.1	5.5	B2/2500		
BH	(60°-80°)	846.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	48.5	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5
2.5°	5540.7	5533.3	5536.0	5530.5	5517.7	5504.8	5485.8	5489.1	5462.7	5423.3	5374.5
5°	5436.2	5433.5	5453.9	5465.4	5474.9	5467.4	5462.0	5468.8	5430.1	5375.8	5291.0
7.5°	5217.0	5187.2	5213.0	5251.6	5288.3	5316.1	5352.8	5357.5	5333.1	5276.1	5164.8
10°	4905.6	4877.1	4915.1	4975.5	5048.7	5115.2	5189.2	5202.8	5207.5	5156.0	5020.9
12.5°	4582.5	4560.8	4598.8	4683.7	4805.1	4907.6	5025.7	5046.0	5088.1	5053.5	4887.9
15°	4293.5	4285.3	4331.5	4414.9	4554.7	4711.5	4881.8	4919.1	4990.4	4978.8	4784.1
17.5°	4043.7	4041.7	4077.0	4164.5	4319.3	4517.4	4738.6	4801.7	4907.6	4921.2	4698.6
20°	3857.8	3853.7	3878.2	3942.6	4102.1	4326.7	4583.9	4670.8	4823.4	4871.0	4610.4
22.5°	3758.1	3757.4	3758.1	3788.6	3918.9	4127.9	4433.3	4539.1	4741.3	4830.9	4512.7
25°	3741.1	3739.1	3724.1	3720.7	3794.7	3961.6	4284.0	4400.7	4663.3	4803.1	4419.7
27.5°	3785.2	3787.9	3768.2	3736.3	3751.3	3852.4	4154.4	4279.2	4600.9	4797.7	4355.2
30°	3876.8	3875.5	3858.5	3825.2	3796.1	3811.7	4062.1	4186.9	4558.8	4821.4	4311.1
32.5°	3977.9	3985.4	3982.0	3963.7	3920.2	3857.8	4034.2	4156.4	4546.6	4878.4	4292.1
35°	4099.4	4107.5	4132.0	4146.2	4095.3	3994.9	4094.0	4199.8	4581.9	4985.6	4322.6
37.5°	4214.7	4235.8	4304.3	4364.7	4321.3	4209.3	4252.8	4328.1	4691.1	5154.6	4404.8
40°	4347.8	4366.1	4478.0	4606.3	4599.5	4483.5	4508.6	4558.8	4883.8	5396.9	4553.4
42.5°	4478.7	4515.4	4677.6	4859.4	4911.7	4809.2	4849.2	4875.7	5155.3	5717.8	4812.6
45°	4653.1	4692.5	4917.8	5137.0	5259.1	5201.4	5265.2	5275.4	5496.6	6154.9	5189.2
47.5°	4917.1	4961.9	5224.5	5454.5	5641.2	5647.3	5752.4	5748.4	5922.8	6655.0	5663.5
50°	5328.3	5392.8	5607.9	5823.0	6049.7	6175.9	6316.4	6296.7	6433.8	7187.7	6209.8
52.5°	5867.1	5897.0	6056.5	6215.2	6496.9	6779.8	6981.4	6963.7	7013.3	7735.3	6830.1
55°	6425.6	6448.0	6513.8	6600.7	6979.3	7440.8	7866.9	7839.1	7713.6	8304.0	7442.8
57.5°	6927.8	6973.2	7018.7	7054.7	7465.2	8131.6	8772.9	8774.9	8473.6	8917.4	8076.0
60°	7005.8	7045.8	7346.5	7630.1	8296.5	9053.1	9742.6	9722.2	9260.1	9583.1	8781.7
62.5°	6192.9	6283.1	6785.3	7539.9	9097.2	10738.8	10979.7	10954.5	10200.6	10403.5	9603.5
65°	4438.0	4540.5	5146.5	6280.4	8709.1	12596.1	13212.2	12874.3	11483.2	11412.6	10565.7
67.5°	2560.3	2584.8	2847.4	3758.1	6631.2	12693.1	16618.1	16145.1	13474.8	12557.4	11036.7
70°	1893.3	1892.6	1955.0	2312.6	3588.4	10359.4	18237.9	18662.0	15571.7	12934.0	10371.0
71°	1712.1	1714.1	1784.0	2105.0	2842.0	8671.1	17893.9	18822.2	16124.1	12748.1	9889.2
72.5°	1464.4	1471.2	1568.2	1887.8	2390.7	5979.8	16411.8	17861.3	16386.0	12289.3	9135.2
75°	1110.9	1126.5	1260.8	1591.3	2185.1	3032.6	12045.0	14262.7	14556.5	10843.9	6788.0
77.5°	792.6	810.2	962.2	1338.2	2077.2	2285.5	8066.5	10403.5	10712.3	6949.5	3061.8
80°	500.8	521.8	636.5	1064.7	1951.6	2170.1	5069.1	6992.9	5841.3	2223.8	779.0
82.5°	293.8	310.1	394.9	695.6	1594.0	2090.1	2982.4	3876.1	2273.3	671.8	354.2
85°	170.3	177.8	246.3	443.1	1157.7	1972.7	2191.2	2166.8	986.7	328.4	167.6
87.5°	79.4	88.2	145.9	231.4	642.6	1429.8	1731.8	1496.3	613.4	154.0	78.7
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°	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5
2.5°	5350.7	5339.2	5291.0	5248.2	5203.5	5145.1	5080.6	5072.5	5033.1	5040.6	5027.0
5°	5244.9	5215.7	5099.6	4994.5	4870.3	4759.0	4638.2	4582.5	4502.5	4497.0	4476.7
7.5°	5093.5	5039.2	4859.4	4659.9	4460.4	4270.4	4082.4	3958.9	3832.7	3779.1	3774.3
10°	4923.2	4830.9	4566.3	4271.1	3983.3	3705.8	3437.1	3238.3	3059.1	2974.3	2970.9
12.5°	4761.7	4625.3	4262.3	3860.5	3466.9	3107.3	2738.8	2477.5	2252.9	2177.6	2145.7
15°	4624.6	4432.6	3966.4	3452.7	2975.0	2475.5	2056.1	1781.3	1573.7	1501.7	1488.2
17.5°	4491.6	4244.6	3663.1	3040.8	2463.3	1914.3	1494.3	1290.0	1179.4	1150.2	1149.5
20°	4359.3	4051.2	3346.1	2619.4	1968.6	1431.8	1148.9	1057.2	1019.9	1016.5	1011.1
22.5°	4209.3	3846.3	3013.0	2196.6	1536.3	1125.8	976.5	939.9	935.1	947.3	947.3
25°	4068.9	3642.7	2675.0	1782.7	1195.0	939.2	872.0	864.5	877.4	899.1	901.2
27.5°	3937.9	3446.6	2345.2	1414.9	957.5	827.2	799.4	808.2	831.3	856.4	857.1
30°	3830.0	3261.3	2024.9	1114.9	808.9	743.7	739.0	756.6	781.7	801.4	806.2
32.5°	3746.5	3103.2	1715.5	896.4	711.8	681.3	685.4	700.3	715.9	726.8	734.2
35°	3707.8	2967.5	1429.8	756.0	650.1	633.1	638.6	646.7	653.5	661.6	667.7
37.5°	3714.6	2862.3	1174.6	668.4	608.7	599.9	599.9	599.9	599.9	603.9	604.6
40°	3777.7	2801.9	967.0	612.8	580.9	571.4	563.9	557.1	551.7	554.4	553.1
42.5°	3939.2	2796.5	815.0	577.5	558.5	542.9	527.9	518.4	511.7	514.4	515.7
45°	4213.4	2864.3	712.5	552.4	537.4	513.7	494.7	484.5	479.8	488.6	489.9
47.5°	4568.3	3012.3	650.1	534.1	517.8	486.6	466.2	456.7	458.1	470.9	474.3
50°	5025.7	3252.5	620.2	522.5	504.2	463.5	442.4	434.3	438.4	456.7	460.8
52.5°	5527.8	3598.6	623.6	519.1	495.4	446.5	424.1	414.6	421.4	438.4	441.8
55°	6107.3	4014.6	680.0	523.9	482.5	435.7	409.2	392.9	398.3	413.9	416.7
57.5°	6751.3	4490.9	793.3	522.5	466.2	425.5	393.6	369.2	373.2	382.7	385.4
60°	7421.8	5066.4	969.0	526.6	458.7	413.3	372.5	342.0	340.7	348.8	350.2
62.5°	8226.6	5732.1	1169.9	529.3	463.5	397.7	344.7	314.9	310.8	312.8	314.2
65°	9055.8	6213.9	1094.6	518.4	478.4	384.8	320.3	288.4	280.9	279.6	280.3
67.5°	9081.6	5697.5	767.5	496.7	484.5	378.0	302.0	266.0	253.8	249.0	248.4
70°	8144.5	4628.7	597.8	473.7	460.1	367.1	285.0	247.7	229.4	221.9	221.2
71°	7687.1	4260.9	566.6	462.1	441.8	356.3	277.5	239.5	220.5	212.4	211.0
72.5°	6969.8	3819.8	528.6	443.8	406.5	328.4	263.3	228.0	208.3	198.8	196.8
75°	5001.9	2497.9	454.0	395.6	336.6	261.9	230.7	204.9	188.0	176.4	175.1
77.5°	1927.2	994.1	343.4	329.1	257.9	204.9	190.0	177.1	164.9	153.4	152.7
80°	595.8	444.5	250.4	247.7	186.6	152.7	147.9	144.5	139.8	127.6	124.9
82.5°	318.3	255.2	172.4	160.1	122.1	101.8	107.2	108.6	109.3	96.4	95.0
85°	152.0	135.0	97.0	90.9	71.3	57.0	65.8	71.3	71.9	59.0	55.0
87.5°	72.6	70.6	45.5	34.6	26.5	19.0	23.1	28.5	31.2	22.4	19.7
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)