

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: P319270

Luminaire Tested: **GAN-SA6A-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22835 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

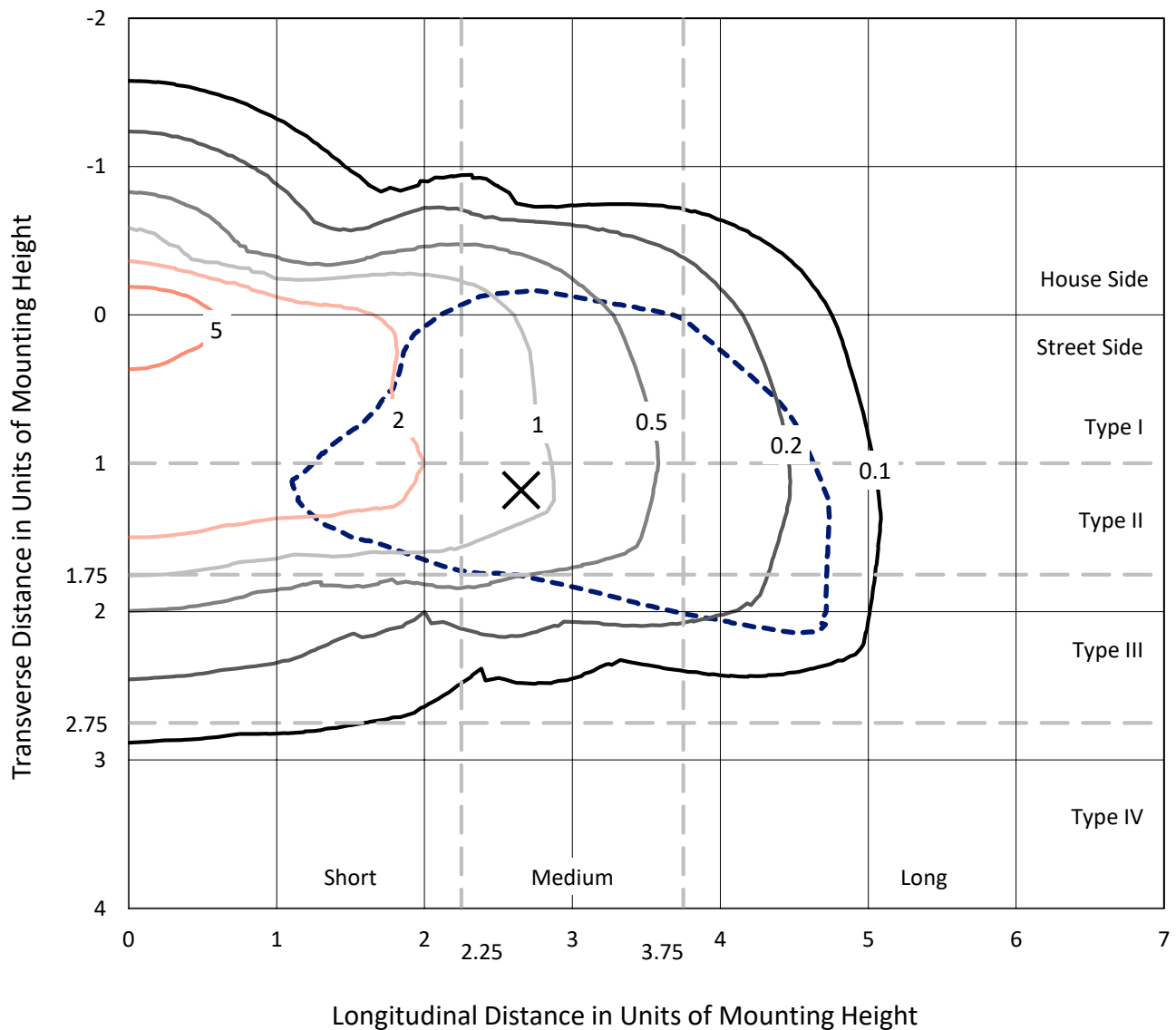
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

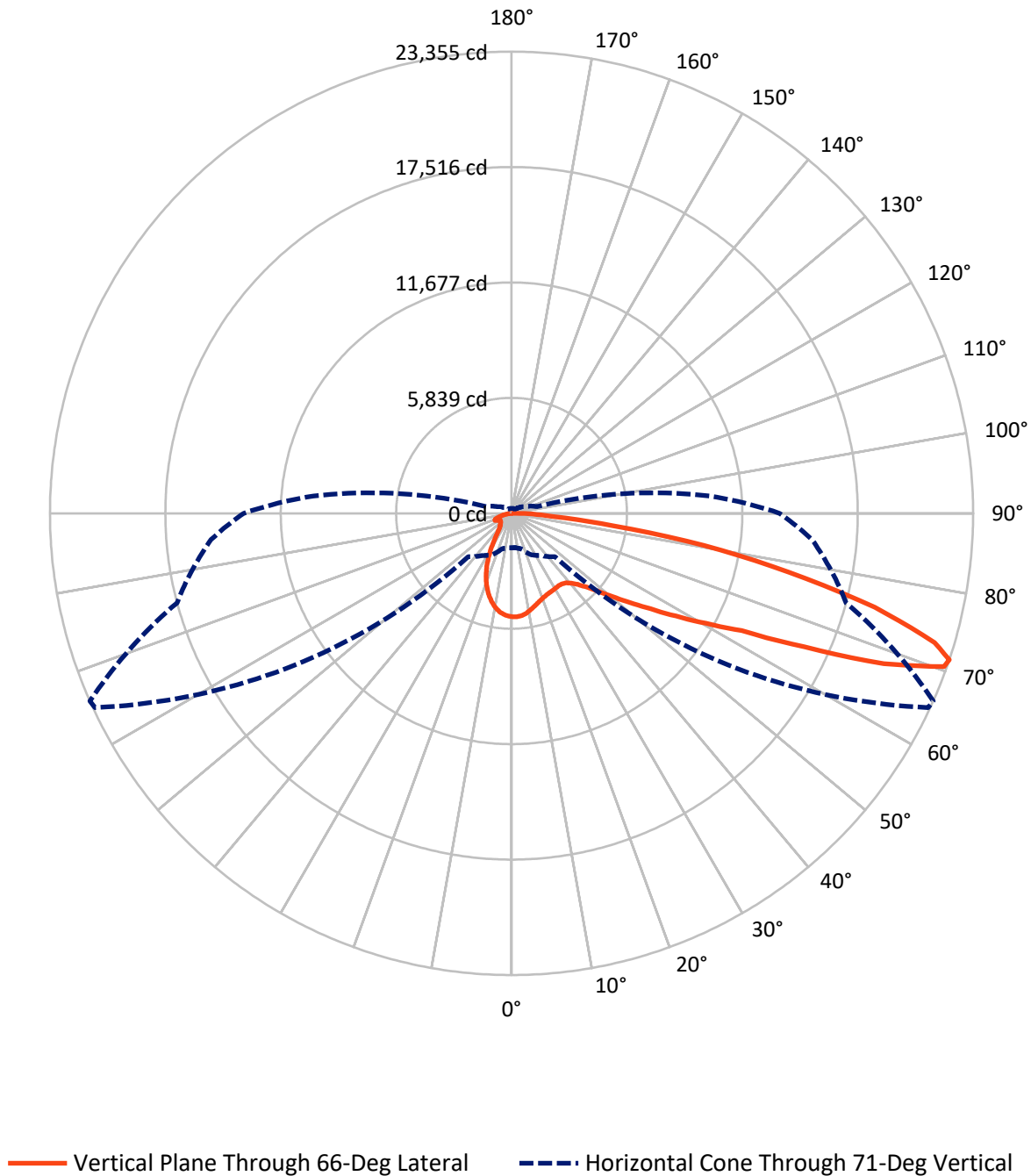
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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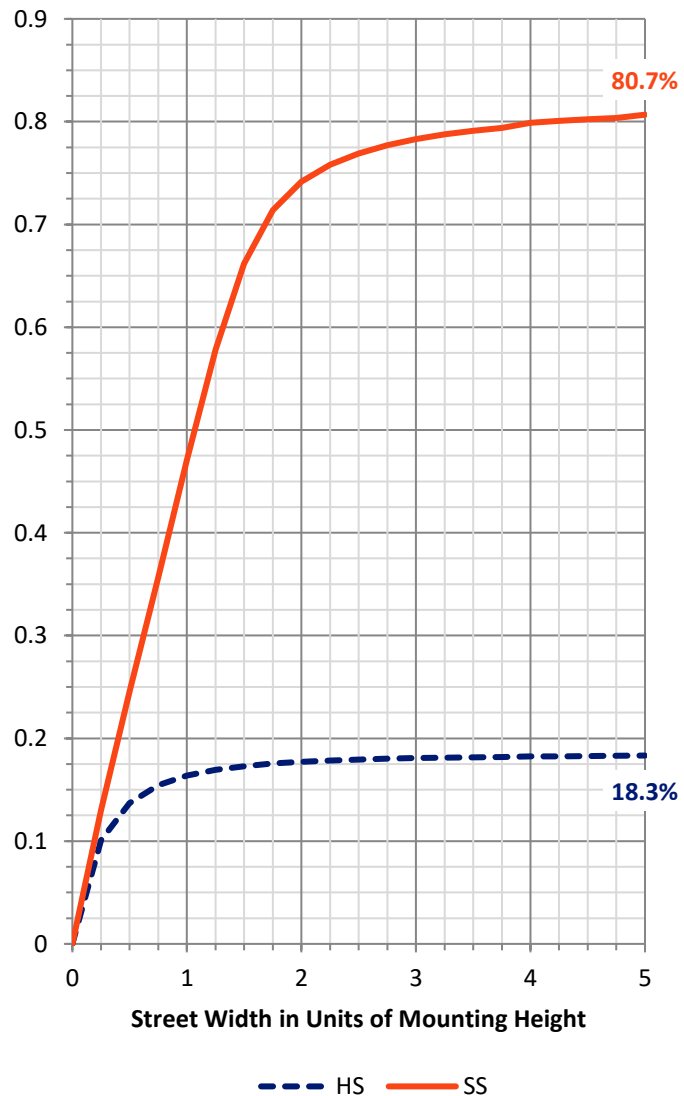
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4231.9	0.0	4231.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	18603.0	0.0	18603.0
	% Fixture	81.5	0.0	81.5
Total	Lumens	22835.0	0.0	22835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.5	2.0
10°-20°	1104.4	4.8
20°-30°	1483.5	6.5
30°-40°	1951.5	8.5
40°-50°	2838.9	12.4
50°-60°	4434.6	19.4
60°-70°	5555.1	24.3
70°-80°	4237.3	18.6
80°-90°	769.4	3.4
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°	22835.0	100.0
0°-180°	22835.0	100.0

Coefficient of Utilization



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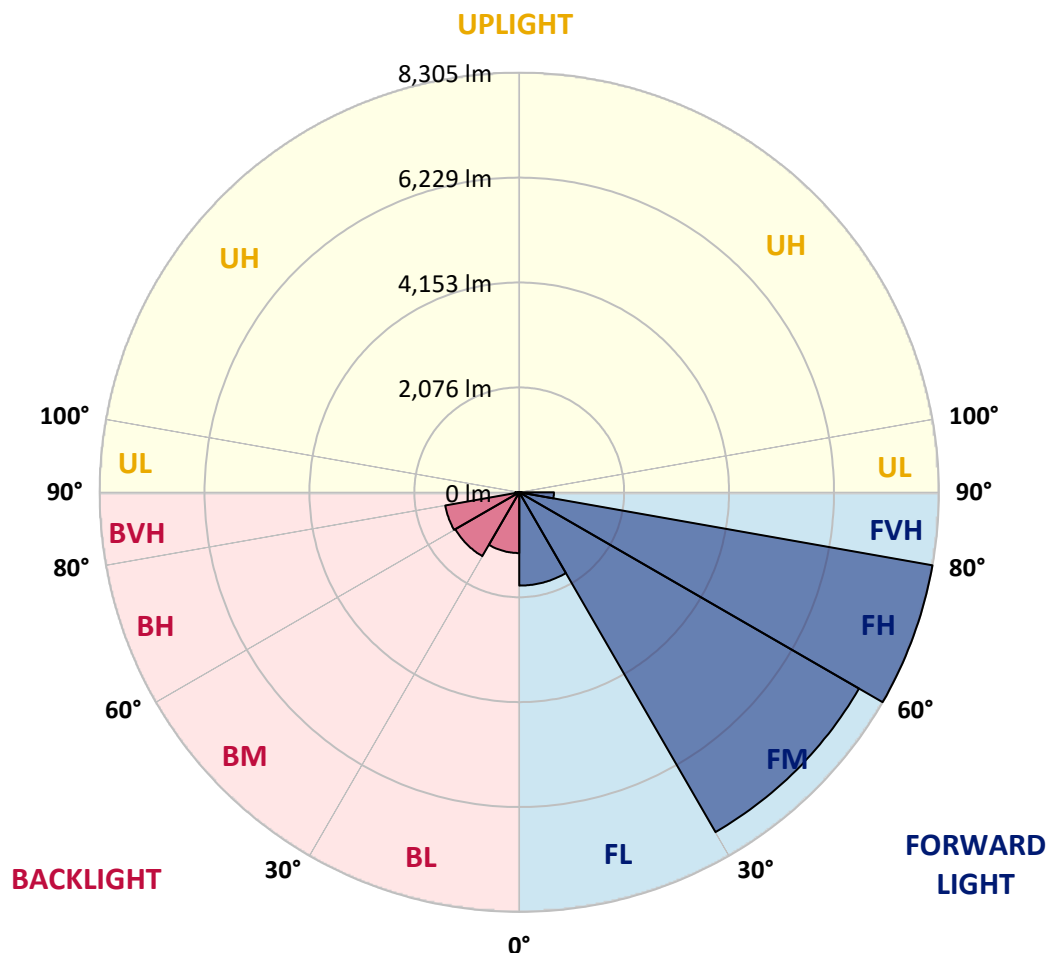
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1846.5	8.1			
FM	(30°-60°)	7765.0	34.0			
FH	(60°-80°)	8305.3	36.4			G4/12000
FVH	(80°-90°)	686.1	3.0			G4/750
BL	(0°-30°)	1201.8	5.3	B3/2500		
BM	(30°-60°)	1459.9	6.4	B2/2500		
BH	(60°-80°)	1487.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	83.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1
2.5°	5134.1	5126.2	5149.9	5174.3	5183.8	5199.5	5223.2	5236.6	5235.8	5238.2	5230.3
5°	4793.5	4783.2	4830.5	4869.2	4943.3	5026.9	5128.6	5201.1	5202.7	5243.7	5254.7
7.5°	4471.0	4463.9	4518.3	4580.6	4666.6	4794.3	4959.1	5115.2	5124.6	5235.8	5274.4
10°	4212.4	4210.9	4263.7	4331.5	4431.6	4574.3	4763.5	4992.2	5006.4	5197.9	5277.6
12.5°	4010.6	4013.8	4059.5	4136.8	4242.4	4391.4	4596.4	4854.2	4877.1	5138.0	5259.4
15°	3861.6	3874.2	3911.3	3989.3	4093.4	4244.8	4455.3	4726.5	4761.2	5071.0	5249.2
17.5°	3776.5	3790.6	3816.7	3881.3	3979.1	4124.9	4324.4	4621.6	4653.2	5019.8	5250.0
20°	3751.2	3763.0	3778.0	3817.4	3900.2	4032.7	4221.1	4527.0	4560.9	4978.8	5257.9
22.5°	3800.9	3809.6	3811.1	3808.0	3858.4	3966.5	4146.2	4457.6	4493.9	4952.0	5263.4
25°	3907.3	3919.2	3910.5	3881.3	3864.8	3931.0	4107.6	4411.9	4448.2	4932.3	5252.3
27.5°	4067.4	4068.9	4061.9	4024.0	3946.0	3934.9	4095.8	4385.1	4419.8	4909.4	5229.5
30°	4285.0	4295.2	4282.6	4231.4	4103.6	3998.0	4109.9	4359.1	4390.6	4880.2	5192.4
32.5°	4539.6	4564.9	4564.1	4510.5	4327.5	4139.1	4168.3	4343.3	4367.8	4849.5	5147.5
35°	4803.7	4838.4	4903.1	4880.2	4653.9	4362.2	4280.2	4368.5	4385.1	4845.5	5115.9
37.5°	5078.1	5112.8	5246.0	5307.5	5042.6	4681.5	4456.8	4457.6	4465.5	4893.6	5113.6
40°	5365.1	5402.1	5602.4	5762.4	5546.4	5086.0	4741.5	4643.7	4635.0	5011.9	5160.1
42.5°	5767.2	5800.3	6040.7	6244.9	6105.4	5604.0	5134.9	4930.7	4912.5	5243.7	5309.1
45°	6275.7	6304.1	6559.5	6777.9	6706.2	6195.3	5629.2	5325.7	5322.5	5630.0	5611.1
47.5°	6880.4	6902.5	7131.9	7343.2	7369.2	6875.7	6250.5	5935.1	5883.9	6159.8	6078.6
50°	7510.3	7534.8	7690.9	7917.9	8111.1	7786.3	7049.9	6681.7	6613.1	6859.1	6740.8
52.5°	7927.4	7959.7	8095.3	8383.1	8945.2	8784.4	7995.2	7586.8	7482.7	7706.6	7616.0
55°	7741.3	7813.9	8021.2	8482.4	9612.2	10309.2	9161.2	8642.5	8525.0	8711.1	8657.5
57.5°	6895.4	6994.7	7277.8	7989.7	9706.0	11652.6	10924.1	9885.8	9803.0	9749.4	9773.8
60°	5349.3	5444.7	5795.6	6723.5	9052.4	12633.4	13577.1	11418.4	11298.6	10791.7	10813.7
62.5°	3785.9	3737.8	3978.3	4657.1	7355.8	12748.5	16595.9	13468.3	13074.1	11892.3	11795.3
65°	2887.1	2876.1	2984.1	3200.1	4455.3	11371.1	18394.2	16913.6	16297.9	13186.8	12958.2
67.5°	2372.3	2352.6	2459.0	2773.6	2869.0	7336.1	18433.7	20910.8	20306.1	14798.3	14303.2
70°	1950.5	1928.4	2027.8	2433.8	2651.4	3720.5	15514.2	23251.6	23219.3	16838.7	15318.7
71°	1748.7	1732.9	1852.0	2302.9	2604.9	3100.8	13395.0	23257.9	23354.9	17529.4	15258.8
72.5°	1423.9	1429.4	1555.5	2049.8	2570.2	2738.1	9844.8	22173.8	22378.8	18187.7	14714.0
75°	946.1	950.8	1116.4	1576.8	2492.1	2679.0	5410.8	18606.3	18983.2	17793.5	13426.5
77.5°	635.5	633.9	746.6	1081.7	2171.3	2679.0	3172.5	13916.1	14330.0	14158.1	10350.9
80°	437.6	434.4	514.0	746.6	1643.8	2711.3	2452.7	9752.5	9877.9	7645.9	4206.9
82.5°	268.1	270.4	335.9	527.4	1118.7	2440.1	2315.5	5317.8	5181.4	2144.5	1050.9
85°	153.7	153.0	214.4	357.1	718.2	2059.3	2258.0	2288.7	2099.5	645.7	380.0
87.5°	55.2	59.1	115.1	197.9	411.5	1434.1	1915.8	1190.5	1073.0	291.7	171.9
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°	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1
2.5°	5224.7	5229.5	5224.0	5192.4	5165.6	5122.3	5097.8	5063.9	5053.7	5048.9	5061.5
5°	5244.5	5246.0	5199.5	5116.7	5023.7	4914.1	4835.3	4738.3	4692.6	4672.9	4685.5
7.5°	5262.6	5255.5	5153.8	4995.3	4823.5	4632.7	4463.2	4307.8	4217.2	4180.1	4183.3
10°	5265.0	5235.0	5071.8	4826.6	4560.1	4280.2	4020.1	3780.4	3629.0	3530.5	3560.4
12.5°	5240.5	5190.1	4951.2	4608.2	4238.5	3856.9	3505.2	3145.7	2929.7	2829.6	2832.7
15°	5221.6	5130.1	4803.0	4351.2	3854.5	3349.1	2869.0	2446.4	2216.2	2113.7	2065.6
17.5°	5205.8	5065.5	4631.1	4061.9	3401.2	2760.2	2183.1	1806.2	1680.1	1650.1	1637.5
20°	5183.8	4996.9	4439.5	3726.8	2884.8	2101.1	1594.2	1408.1	1408.9	1443.6	1448.3
22.5°	5153.0	4918.8	4235.3	3350.7	2330.5	1530.3	1249.6	1196.0	1250.4	1316.6	1328.5
25°	5107.3	4826.6	4008.2	2935.2	1777.1	1176.3	1067.5	1065.1	1131.4	1200.7	1211.0
27.5°	5042.6	4706.0	3756.0	2489.0	1309.5	999.7	956.3	972.9	1021.8	1072.2	1076.2
30°	4955.9	4565.6	3477.6	2018.3	1026.5	890.1	885.4	900.4	930.3	965.8	968.9
32.5°	4860.5	4422.9	3180.4	1562.6	879.1	831.0	835.7	842.8	857.0	871.2	874.3
35°	4773.8	4277.1	2876.1	1187.3	808.9	792.3	789.2	787.6	789.2	784.5	785.2
37.5°	4717.8	4156.5	2559.2	945.3	768.7	758.4	749.0	737.2	723.8	715.9	717.4
40°	4697.3	4066.6	2238.3	816.8	735.6	728.5	710.4	685.1	669.4	664.6	664.6
42.5°	4752.5	4020.1	1928.4	752.1	708.0	696.2	666.2	637.0	625.2	624.4	623.6
45°	4921.2	4039.0	1633.6	716.7	682.8	659.9	620.5	596.0	588.1	589.7	588.9
47.5°	5224.0	4158.0	1381.3	693.0	657.5	627.6	583.4	563.7	554.2	554.2	555.0
50°	5738.8	4436.3	1180.2	673.3	636.2	597.6	556.6	532.2	519.6	518.8	518.8
52.5°	6488.6	4934.6	1054.9	656.7	612.6	570.8	529.8	499.1	484.1	480.9	479.3
55°	7428.3	5648.9	1020.2	645.7	581.1	541.6	497.5	466.7	450.2	443.1	442.3
57.5°	8479.3	6517.7	1088.8	632.3	548.7	506.9	462.0	432.8	415.5	406.8	406.0
60°	9542.8	7466.2	1368.7	613.4	521.9	469.1	425.7	398.9	381.6	372.1	370.5
62.5°	10608.0	8465.9	1940.3	611.8	503.0	432.8	388.7	365.8	349.3	339.0	336.6
65°	11809.5	9560.2	2589.9	653.6	496.7	399.7	350.8	332.7	318.5	309.1	308.3
67.5°	13189.2	10795.6	2527.6	739.5	518.0	369.8	315.4	301.2	290.9	283.0	282.2
70°	13836.5	10602.4	1571.3	800.2	547.9	340.6	281.5	271.2	263.3	257.8	255.4
71°	13565.3	10067.1	1317.4	793.1	544.8	328.0	268.1	260.2	252.3	247.6	245.2
72.5°	12825.7	9181.0	1099.0	737.9	509.3	305.1	250.7	242.8	235.7	230.2	228.6
75°	11509.1	8199.4	879.9	589.7	406.0	257.8	220.0	211.3	205.8	202.6	199.5
77.5°	8460.4	5851.5	680.4	465.9	298.8	210.5	187.6	181.3	175.8	171.1	168.7
80°	3241.1	2266.7	458.1	347.7	219.2	166.4	151.4	148.2	142.7	139.5	139.5
82.5°	872.8	677.2	244.4	210.5	146.6	121.4	115.9	114.3	109.6	103.3	104.1
85°	353.2	298.8	137.2	115.9	89.9	71.7	78.1	78.8	73.3	65.4	66.2
87.5°	155.3	126.9	76.5	51.2	39.4	27.6	35.5	35.5	32.3	26.8	24.4
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)