

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: P319288

Luminaire Tested: **GAN-SA4C-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319288
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-SA4C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 23374 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

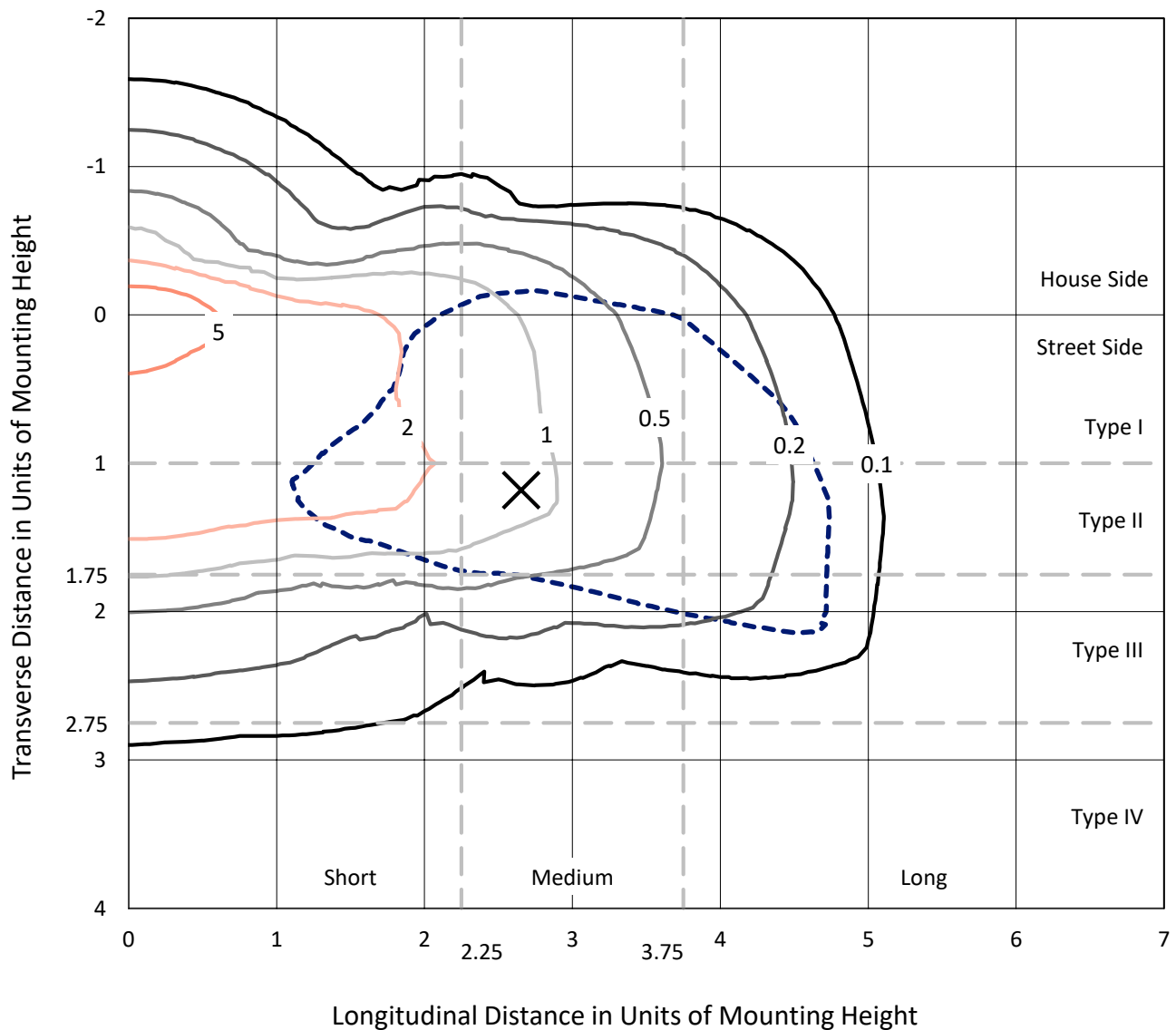
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

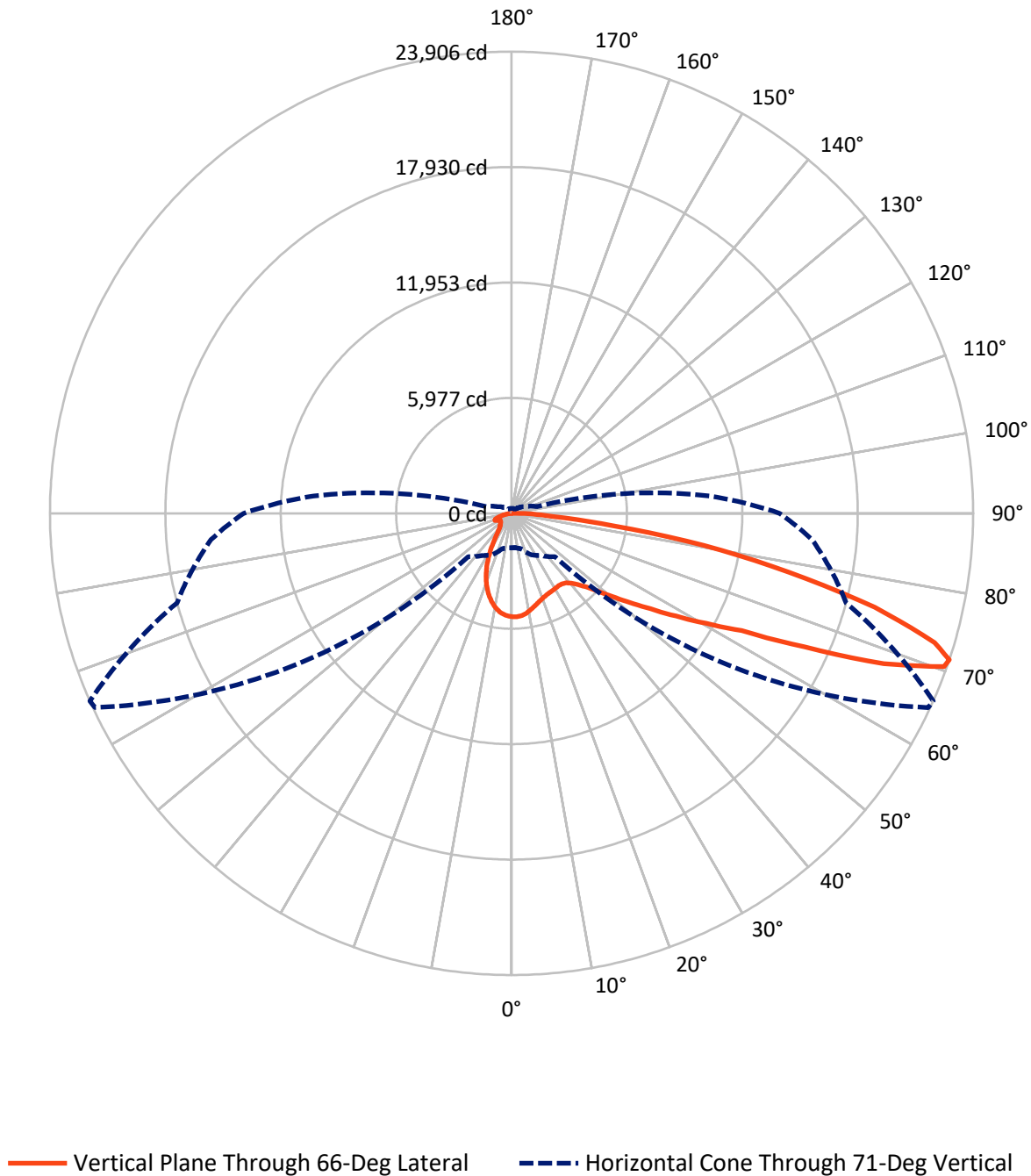
✕ Max cd
 - - - 1/2 Max cd



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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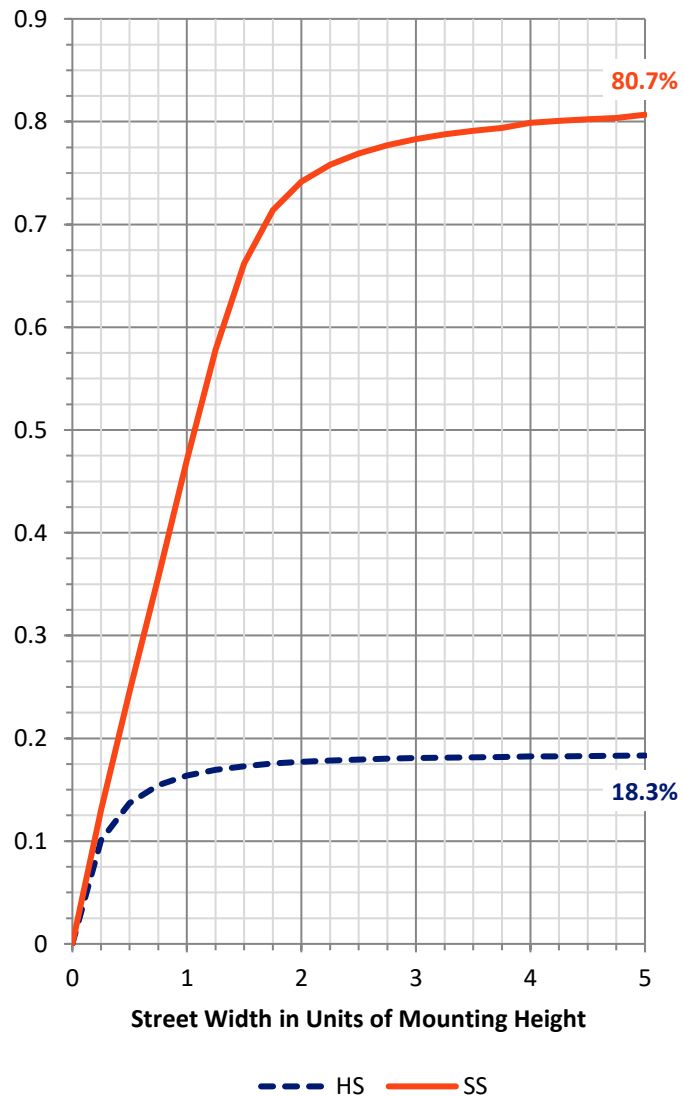
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4331.8	0.0	4331.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	19042.2	0.0	19042.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	23374.0	0.0	23374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.3	2.0
10°-20°	1130.4	4.8
20°-30°	1518.5	6.5
30°-40°	1997.5	8.5
40°-50°	2905.9	12.4
50°-60°	4539.3	19.4
60°-70°	5686.2	24.3
70°-80°	4337.3	18.6
80°-90°	787.6	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°	23374.0	100.0
0°-180°	23374.0	100.0

Coefficient of Utilization



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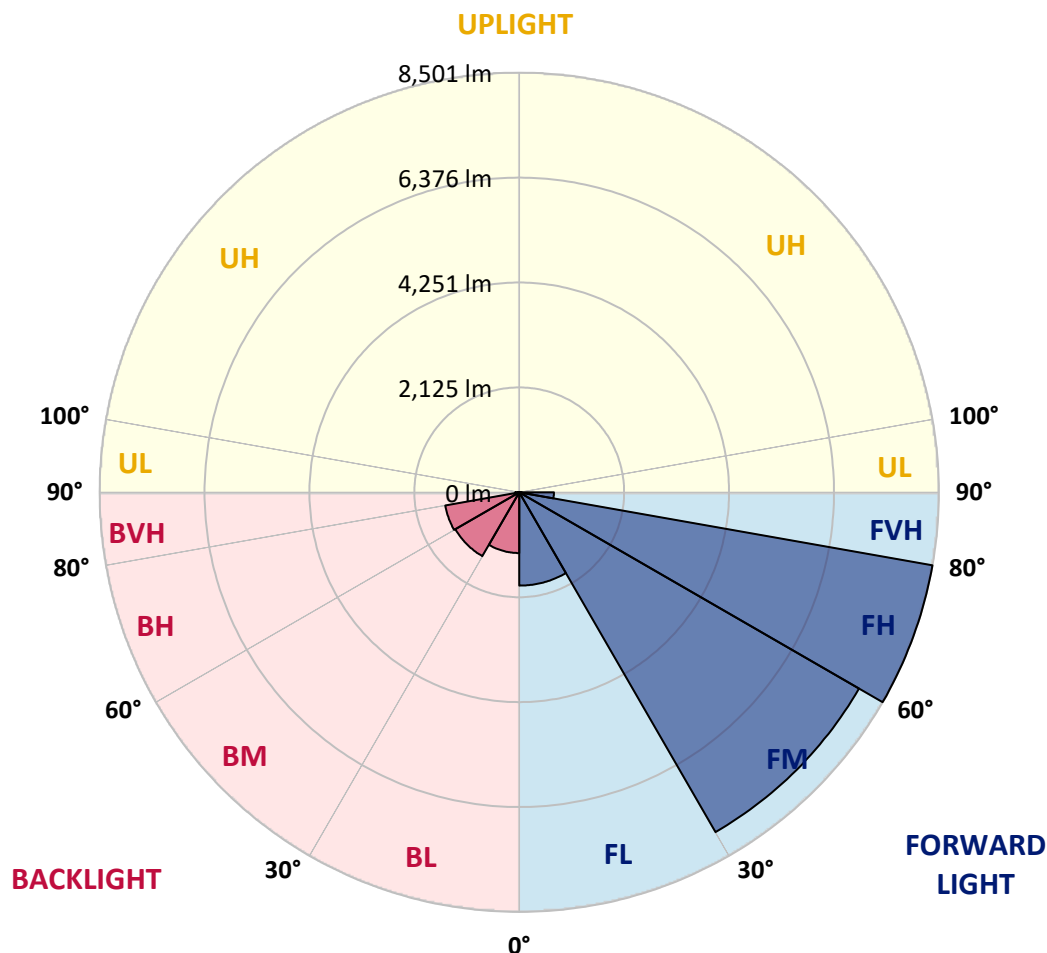
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1890.1	8.1			
FM	(30°-60°)	7948.3	34.0			
FH	(60°-80°)	8501.4	36.4			G4/12000
FVH	(80°-90°)	702.4	3.0			G4/750
BL	(0°-30°)	1230.1	5.3	B3/2500		
BM	(30°-60°)	1494.3	6.4	B2/2500		
BH	(60°-80°)	1522.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	85.3	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°	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5
2.5°	5255.3	5247.2	5271.4	5296.4	5306.1	5322.3	5346.5	5360.2	5359.4	5361.8	5353.7
5°	4906.6	4896.1	4944.6	4984.1	5060.0	5145.5	5249.6	5323.9	5325.5	5367.4	5378.7
7.5°	4576.6	4569.3	4625.0	4688.7	4776.7	4907.4	5076.1	5235.9	5245.6	5359.4	5398.9
10°	4311.9	4310.3	4364.3	4433.7	4536.2	4682.3	4876.0	5110.0	5124.5	5320.6	5402.1
12.5°	4105.3	4108.5	4155.3	4234.4	4342.5	4495.1	4704.9	4968.8	4992.2	5259.3	5383.6
15°	3952.7	3965.7	4003.6	4083.5	4190.0	4345.0	4560.4	4838.0	4873.6	5190.7	5373.1
17.5°	3865.6	3880.1	3906.7	3972.9	4073.0	4222.3	4426.5	4730.7	4763.0	5138.3	5373.9
20°	3839.8	3851.9	3867.2	3907.6	3992.3	4127.9	4320.7	4633.9	4668.6	5096.3	5382.0
22.5°	3890.6	3899.5	3901.1	3897.9	3949.5	4060.1	4244.1	4562.9	4600.0	5068.8	5387.6
25°	3999.6	4011.7	4002.8	3972.9	3956.0	4023.8	4204.5	4516.0	4553.2	5048.7	5376.3
27.5°	4163.4	4165.0	4157.7	4119.0	4039.1	4027.8	4192.4	4488.6	4524.1	5025.3	5352.9
30°	4386.1	4396.6	4383.7	4331.2	4200.5	4092.4	4207.0	4462.0	4494.3	4995.4	5315.0
32.5°	4646.8	4672.6	4671.8	4616.9	4429.7	4236.8	4266.7	4445.8	4470.9	4963.9	5269.0
35°	4917.1	4952.6	5018.8	4995.4	4763.8	4465.2	4381.3	4471.7	4488.6	4959.9	5236.7
37.5°	5198.0	5233.5	5369.9	5432.8	5161.7	4792.0	4562.0	4562.9	4570.9	5009.1	5234.3
40°	5491.7	5529.7	5734.6	5898.5	5677.3	5206.0	4853.4	4753.3	4744.4	5130.2	5281.9
42.5°	5903.3	5937.2	6183.3	6392.3	6249.5	5736.2	5256.1	5047.1	5028.5	5367.4	5434.4
45°	6423.8	6452.9	6714.3	6937.9	6864.5	6341.5	5762.1	5451.4	5448.1	5762.9	5743.5
47.5°	7042.8	7065.4	7300.2	7516.5	7543.1	7038.0	6398.0	6075.2	6022.7	6305.2	6222.1
50°	7687.6	7712.6	7872.4	8104.8	8302.5	7970.1	7216.3	6839.4	6769.2	7021.0	6900.0
52.5°	8114.5	8147.6	8286.4	8581.0	9156.4	8991.7	8183.9	7765.9	7659.4	7888.6	7795.7
55°	7924.1	7998.3	8210.5	8682.7	9839.1	10552.5	9377.5	8846.5	8726.2	8916.7	8861.8
57.5°	7058.1	7159.8	7449.5	8178.3	9935.1	11927.7	11182.0	10119.1	10034.4	9979.5	10004.5
60°	5475.6	5573.2	5932.4	6882.2	9266.1	12931.6	13897.6	11688.0	11565.3	11046.4	11069.0
62.5°	3875.3	3826.0	4072.2	4767.0	7529.4	13049.4	16987.6	13786.2	13382.7	12173.0	12073.7
65°	2955.3	2944.0	3054.5	3275.7	4560.4	11639.5	18828.4	17312.8	16682.6	13498.1	13264.1
67.5°	2428.3	2408.1	2517.1	2839.1	2936.7	7509.3	18868.8	21404.4	20785.4	15147.6	14640.8
70°	1996.6	1974.0	2075.6	2491.2	2714.0	3808.3	15880.4	23800.4	23767.3	17236.2	15680.3
71°	1790.0	1773.8	1895.7	2357.3	2666.4	3174.0	13711.1	23806.9	23906.1	17943.1	15618.9
72.5°	1457.5	1463.1	1592.2	2098.2	2630.9	2802.8	10077.2	22697.2	22907.1	18617.0	15061.3
75°	968.4	973.3	1142.7	1614.0	2551.0	2742.2	5538.5	19045.5	19431.3	18213.5	13743.4
77.5°	650.5	648.8	764.2	1107.2	2222.5	2742.2	3247.4	14244.6	14668.3	14492.3	10595.3
80°	447.9	444.7	526.2	764.2	1682.6	2775.3	2510.6	9982.8	10111.1	7826.4	4306.2
82.5°	274.4	276.8	343.8	539.9	1145.2	2497.7	2370.2	5443.3	5303.7	2195.1	1075.7
85°	157.4	156.6	219.5	365.6	735.2	2107.9	2311.3	2342.8	2149.1	660.9	389.0
87.5°	56.5	60.5	117.8	202.6	421.3	1468.0	1961.0	1218.6	1098.3	298.6	175.9
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°	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5	5354.5
2.5°	5348.1	5352.9	5347.3	5315.0	5287.5	5243.2	5218.1	5183.4	5173.0	5168.1	5181.0
5°	5368.3	5369.9	5322.3	5237.5	5142.3	5030.1	4949.4	4850.1	4803.3	4783.2	4796.1
7.5°	5386.8	5379.5	5275.4	5113.2	4937.3	4742.0	4568.5	4409.5	4316.7	4278.8	4282.0
10°	5389.2	5358.6	5191.5	4940.5	4667.8	4381.3	4115.0	3869.6	3714.7	3613.8	3644.5
12.5°	5364.2	5312.6	5068.0	4717.0	4338.5	3947.9	3588.0	3220.0	2998.9	2896.4	2899.6
15°	5344.8	5251.2	4916.3	4453.9	3945.5	3428.2	2936.7	2504.2	2268.5	2163.6	2114.4
17.5°	5328.7	5185.1	4740.4	4157.7	3481.5	2825.4	2234.6	1848.9	1719.7	1689.1	1676.2
20°	5306.1	5114.8	4544.3	3814.8	2952.9	2150.7	1631.8	1441.3	1442.1	1477.6	1482.5
22.5°	5274.6	5035.0	4335.3	3429.8	2385.5	1566.4	1279.1	1224.2	1279.9	1347.7	1359.8
25°	5227.8	4940.5	4102.9	3004.5	1819.0	1204.1	1092.7	1090.3	1158.1	1229.1	1239.6
27.5°	5161.7	4817.1	3844.6	2547.7	1340.4	1023.3	978.9	995.9	1045.9	1097.5	1101.6
30°	5072.9	4673.4	3559.7	2066.0	1050.7	911.1	906.3	921.6	952.3	988.6	991.8
32.5°	4975.2	4527.3	3255.5	1599.5	899.8	850.6	855.4	862.7	877.2	891.7	895.0
35°	4886.5	4378.0	2944.0	1215.4	828.0	811.0	807.8	806.2	807.8	803.0	803.8
37.5°	4829.2	4254.6	2619.6	967.6	786.8	776.3	766.7	754.6	740.8	732.8	734.4
40°	4808.2	4162.6	2291.1	836.1	752.9	745.7	727.1	701.3	685.2	680.3	680.3
42.5°	4864.7	4115.0	1974.0	769.9	724.7	712.6	681.9	652.1	640.0	639.2	638.3
45°	5037.4	4134.3	1672.1	733.6	698.9	675.5	635.1	610.1	602.0	603.6	602.8
47.5°	5347.3	4256.2	1413.9	709.4	673.0	642.4	597.2	577.0	567.3	567.3	568.1
50°	5874.2	4541.1	1208.1	689.2	651.3	611.7	569.8	544.7	531.8	531.0	531.0
52.5°	6641.7	5051.1	1079.8	672.2	627.0	584.3	542.3	510.8	495.5	492.3	490.7
55°	7603.7	5782.2	1044.3	660.9	594.8	554.4	509.2	477.8	460.8	453.5	452.7
57.5°	8679.4	6671.6	1114.5	647.2	561.7	518.9	472.9	443.1	425.3	416.4	415.6
60°	9768.1	7642.4	1401.0	627.9	534.2	480.2	435.8	408.3	390.6	380.9	379.3
62.5°	10858.4	8665.7	1986.1	626.2	514.9	443.1	397.9	374.5	357.5	347.0	344.6
65°	12088.2	9785.8	2651.0	669.0	508.4	409.2	359.1	340.6	326.0	316.3	315.5
67.5°	13500.5	11050.4	2587.3	757.0	530.2	378.5	322.8	308.3	297.8	289.7	288.9
70°	14163.1	10852.7	1608.4	819.1	560.9	348.6	288.1	277.6	269.5	263.9	261.5
71°	13885.5	10304.7	1348.5	811.9	557.6	335.7	274.4	266.3	258.2	253.4	251.0
72.5°	13128.5	9397.7	1125.0	755.4	521.3	312.3	256.6	248.6	241.3	235.6	234.0
75°	11780.8	8392.9	900.6	603.6	415.6	263.9	225.2	216.3	210.6	207.4	204.2
77.5°	8660.1	5989.7	696.5	476.9	305.9	215.5	192.1	185.6	180.0	175.1	172.7
80°	3317.6	2320.2	468.9	355.9	224.3	170.3	154.9	151.7	146.1	142.8	142.8
82.5°	893.4	693.2	250.2	215.5	150.1	124.3	118.6	117.0	112.2	105.7	106.5
85°	361.5	305.9	140.4	118.6	92.0	73.4	79.9	80.7	75.1	67.0	67.8
87.5°	159.0	129.9	78.3	52.5	40.4	28.2	36.3	36.3	33.1	27.4	25.0
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)