

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: P323368

Luminaire Tested: **GAN-SA4C-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18779 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

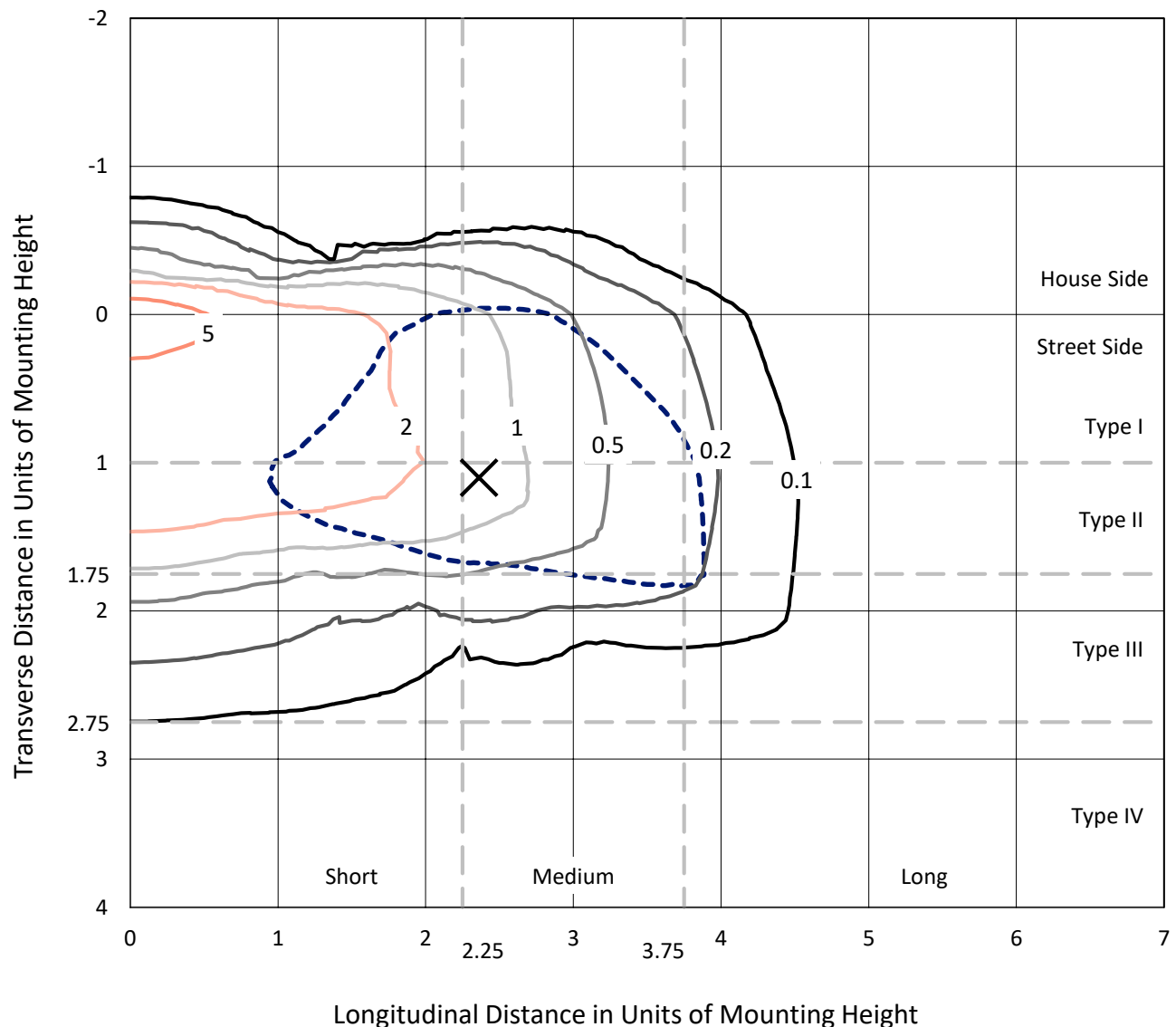
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

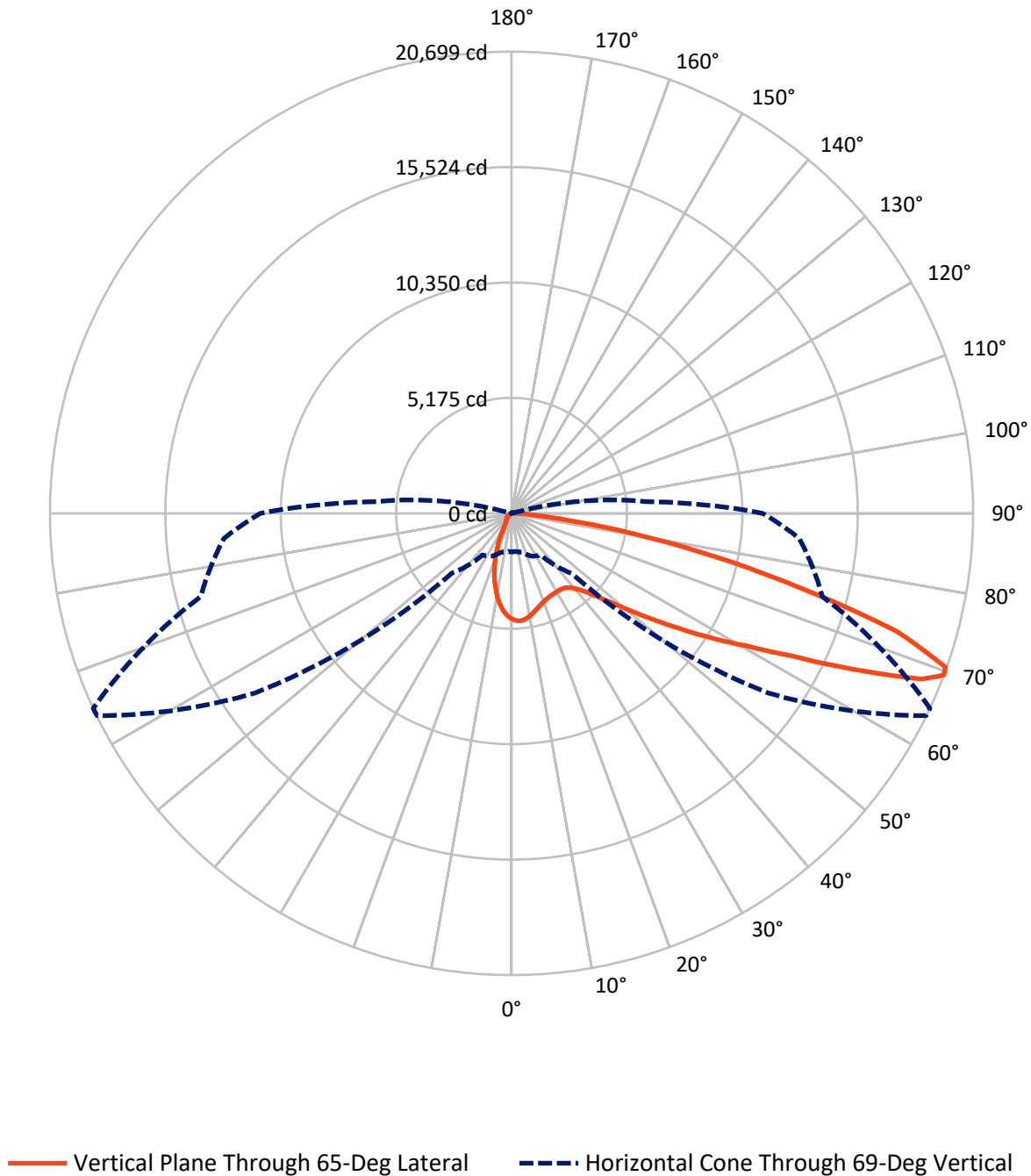
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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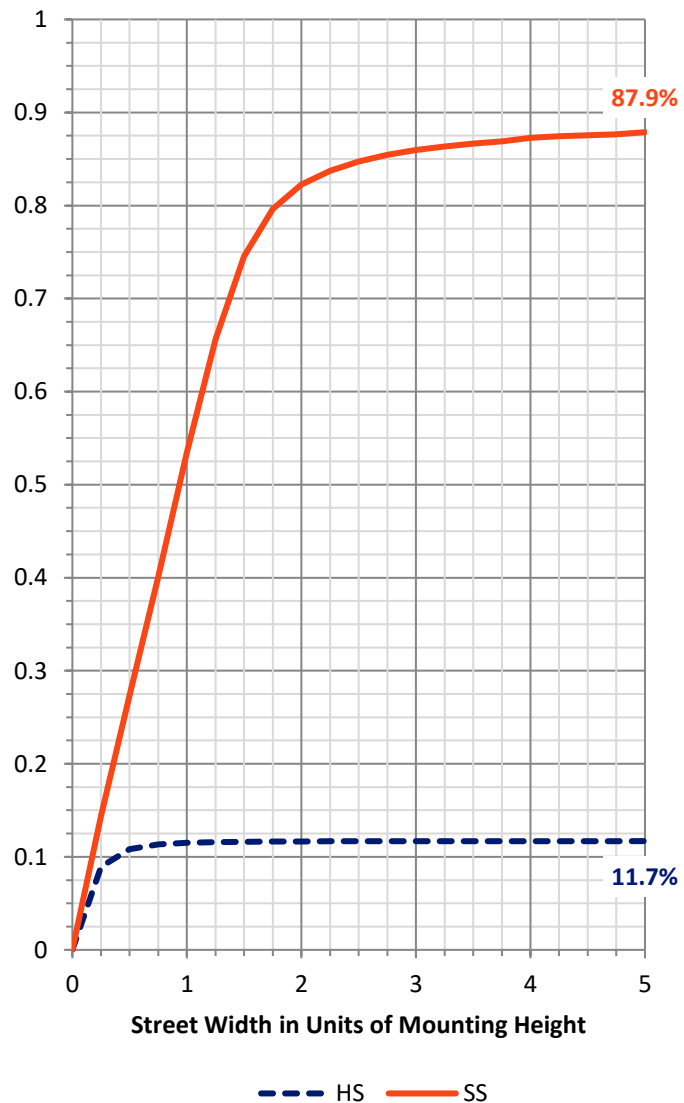
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2213.6	0.0	2213.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	16565.4	0.0	16565.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	18779.0	0.0	18779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.8	2.1
10°-20°	868.7	4.6
20°-30°	1203.1	6.4
30°-40°	1677.5	8.9
40°-50°	2607.4	13.9
50°-60°	4186.0	22.3
60°-70°	4735.0	25.2
70°-80°	2780.9	14.8
80°-90°	323.5	1.7
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°	18779.0	100.0
0°-180°	18779.0	100.0

Coefficient of Utilization



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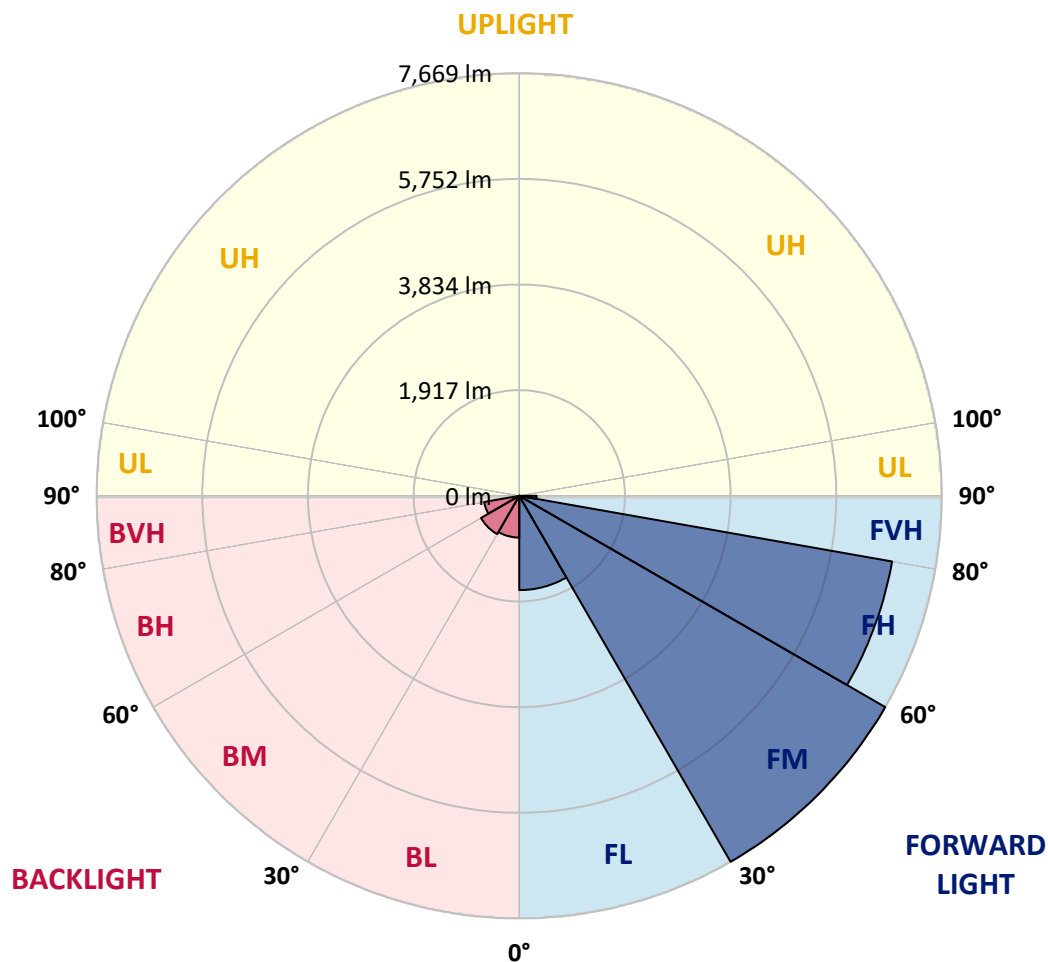
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1711.2	9.1			
FM	(30°-60°)	7668.8	40.8			
FH	(60°-80°)	6869.2	36.6			G3/7500
FVH	(80°-90°)	316.2	1.7			G3/500
BL	(0°-30°)	757.4	4.0	B2/1000		
BM	(30°-60°)	802.2	4.3	B1/1000		
BH	(60°-80°)	646.8	3.4	B2/1000		G2/1000
BVH	(80°-90°)	7.3	0.0			G0/10
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°	64°	65°	75°	85°
0°	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5
2.5°	4787.6	4775.7	4785.2	4805.9	4816.2	4816.2	4824.2	4814.6	4817.8	4794.8	4761.4
5°	4488.0	4469.8	4496.0	4554.0	4625.5	4686.7	4777.3	4824.9	4829.7	4830.5	4791.6
7.5°	4165.4	4148.7	4187.7	4256.0	4348.2	4461.8	4619.9	4758.2	4766.1	4840.8	4812.2
10°	3903.2	3891.3	3936.6	4009.7	4117.7	4244.9	4438.8	4631.1	4654.1	4819.4	4809.1
12.5°	3695.0	3685.5	3728.4	3812.6	3923.1	4063.7	4266.3	4489.6	4520.6	4770.9	4793.2
15°	3543.2	3541.6	3577.4	3658.4	3780.8	3911.9	4119.3	4358.5	4394.3	4718.5	4790.8
17.5°	3463.8	3466.1	3492.4	3561.5	3666.4	3796.7	3995.4	4248.1	4287.0	4671.6	4802.7
20°	3455.8	3458.2	3472.5	3511.4	3596.5	3711.7	3894.4	4155.1	4195.6	4636.6	4821.8
22.5°	3525.7	3524.2	3528.1	3524.2	3571.8	3659.2	3827.7	4083.6	4130.4	4613.6	4836.9
25°	3660.0	3657.6	3656.1	3626.7	3594.9	3641.8	3799.9	4043.0	4087.5	4596.9	4845.6
27.5°	3846.8	3845.2	3842.8	3794.3	3699.0	3669.6	3803.1	4027.9	4065.3	4583.4	4844.0
30°	4092.3	4103.4	4100.3	4032.7	3884.1	3754.6	3836.4	4020.0	4052.6	4557.2	4827.3
32.5°	4380.8	4403.0	4420.5	4348.2	4162.2	3923.1	3913.5	4028.7	4052.6	4537.3	4797.1
35°	4680.3	4708.9	4773.3	4747.9	4503.1	4176.5	4046.2	4081.2	4101.0	4548.4	4782.8
37.5°	4975.1	5009.3	5149.2	5223.1	4949.7	4511.9	4252.8	4210.7	4221.0	4616.0	4798.7
40°	5317.6	5369.3	5581.4	5700.6	5482.9	4960.8	4561.9	4433.2	4437.2	4764.6	4872.6
42.5°	5767.4	5820.6	6050.3	6237.0	6083.6	5528.2	4981.5	4773.3	4769.3	5042.7	5046.6
45°	6315.7	6371.3	6608.9	6816.3	6747.1	6200.4	5518.7	5269.9	5265.2	5481.3	5376.4
47.5°	6937.1	6991.9	7204.0	7417.8	7492.5	6985.5	6202.8	5947.8	5936.6	6090.8	5885.8
50°	7470.2	7506.0	7701.5	7989.1	8326.1	7950.2	7053.9	6808.3	6796.4	6900.5	6633.5
52.5°	7664.1	7684.8	7883.5	8286.3	9127.0	9256.6	8171.9	7855.6	7846.9	7892.2	7629.2
55°	7271.6	7308.9	7552.9	8150.4	9560.9	10733.0	9583.1	9152.5	9086.5	8988.8	8670.1
57.5°	6202.0	6261.6	6523.9	7318.5	9358.3	11904.2	11657.1	10619.3	10522.4	9924.8	9516.4
60°	4647.0	4720.1	4937.8	5795.2	8276.8	12321.4	13923.4	12253.9	12035.4	10670.2	10294.3
62.5°	3188.8	3225.4	3373.2	3931.8	6095.6	11638.0	15819.3	14443.1	14044.2	11480.7	11135.8
65°	2435.5	2448.2	2508.6	2700.9	3629.8	9453.6	16573.4	17331.5	16849.2	12450.1	12009.1
67.5°	1962.7	1952.4	2035.8	2310.8	2430.8	5767.4	15693.8	20064.2	19838.5	13746.2	12888.0
69°	1730.7	1716.4	1801.4	2120.8	2283.0	3812.6	14029.9	20684.8	20699.1	14430.3	12948.4
70°	1557.5	1567.0	1651.2	2008.0	2232.9	2992.5	12440.6	20526.7	20639.5	14686.2	12586.0
72.5°	1040.2	1065.6	1234.8	1667.1	2147.1	2264.7	7511.6	17614.4	18048.3	14110.1	10798.1
75°	586.4	605.5	806.5	1257.1	2023.1	2156.6	3967.6	12977.0	13396.5	11799.4	8326.9
77.5°	287.7	298.0	456.1	811.3	1691.8	2054.9	2250.4	8814.7	9293.9	7701.5	4709.7
80°	121.6	127.1	228.1	500.6	1209.4	1961.1	1671.1	5424.9	5484.5	3017.2	1254.7
82.5°	46.9	48.5	96.1	312.3	768.4	1528.9	1397.7	2572.2	2510.2	568.2	286.1
85°	5.6	6.4	35.0	187.5	427.5	786.7	1135.5	1108.5	1025.9	112.8	147.0
87.5°	0.0	0.0	2.4	57.2	127.1	368.7	590.4	460.1	414.8	36.6	76.3
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°	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5
2.5°	4733.6	4725.6	4682.7	4620.7	4561.9	4488.8	4418.9	4376.8	4343.4	4321.2	4347.4
5°	4746.3	4711.3	4581.0	4414.1	4250.4	4066.1	3894.4	3749.0	3691.8	3628.2	3656.9
7.5°	4742.3	4676.4	4441.9	4144.8	3844.4	3533.7	3239.7	3013.2	2895.6	2780.4	2809.8
10°	4722.4	4611.2	4256.0	3815.8	3366.0	2919.4	2502.3	2185.2	2008.0	1847.5	1870.5
12.5°	4678.7	4523.8	4036.7	3439.1	2837.6	2248.8	1760.1	1354.0	1136.3	1040.2	1052.1
15°	4652.5	4438.8	3804.7	3057.7	2273.4	1566.2	1075.9	800.2	700.9	669.1	673.0
17.5°	4639.8	4356.9	3564.7	2621.5	1696.5	997.3	695.3	613.4	592.0	586.4	588.0
20°	4627.1	4274.3	3317.5	2190.0	1168.9	670.7	571.3	547.5	539.5	532.4	534.0
22.5°	4605.6	4194.8	3052.1	1752.9	788.3	544.3	514.9	491.9	475.2	466.4	468.0
25°	4579.4	4111.4	2781.2	1305.6	575.3	485.5	457.7	425.1	405.3	389.4	390.2
27.5°	4537.3	4008.9	2501.5	950.4	483.1	434.7	397.3	361.6	328.2	309.9	309.9
30°	4478.5	3892.9	2190.8	680.2	433.1	384.6	339.3	294.8	259.0	242.4	240.8
32.5°	4413.3	3772.1	1876.9	515.7	393.3	337.7	286.1	239.2	207.4	193.9	193.1
35°	4357.7	3641.8	1563.8	432.3	353.6	292.4	236.0	196.3	170.8	159.7	158.9
37.5°	4322.0	3511.4	1258.7	386.2	317.8	250.3	197.9	162.1	143.8	135.1	134.3
40°	4316.4	3414.5	979.8	351.2	284.5	213.0	165.3	137.5	120.8	111.2	110.5
42.5°	4388.7	3358.9	751.7	321.8	250.3	180.4	140.6	117.6	100.1	90.6	89.8
45°	4578.6	3376.4	578.5	295.6	216.1	152.6	119.2	97.7	81.8	74.7	73.1
47.5°	4925.1	3497.1	460.1	269.4	183.6	129.5	101.7	81.1	67.5	60.4	59.6
50°	5541.7	3780.8	384.6	240.8	153.4	110.5	84.2	66.0	54.8	48.5	47.7
52.5°	6360.2	4286.2	343.3	213.0	127.1	93.8	69.1	52.4	42.9	38.1	37.3
55°	7262.9	4898.1	316.3	182.8	104.1	77.9	54.8	41.3	33.4	29.4	27.8
57.5°	8144.1	5428.1	290.8	153.4	86.6	63.6	43.7	32.6	26.2	22.2	21.5
60°	8953.8	5915.2	261.4	123.2	70.7	50.1	34.2	25.4	20.7	16.7	16.7
62.5°	9820.7	6291.8	220.9	96.1	58.0	38.1	27.8	23.0	16.7	14.3	13.5
65°	10739.3	6571.5	173.2	74.7	45.3	28.6	23.0	23.8	13.5	10.3	9.5
67.5°	11417.9	6515.9	127.9	58.8	35.0	22.2	22.2	25.4	11.9	7.9	7.2
69°	11268.5	6063.8	107.3	50.9	30.2	19.1	20.7	25.4	11.1	7.2	6.4
70°	10835.5	5563.2	94.6	45.3	27.0	17.5	19.9	24.6	10.3	7.2	6.4
72.5°	9023.7	4190.0	73.9	34.2	21.5	14.3	16.7	21.5	10.3	7.2	5.6
75°	6787.7	2681.9	56.4	24.6	15.9	11.1	12.7	15.9	10.3	6.4	5.6
77.5°	3693.4	967.1	40.5	16.7	11.1	8.7	8.7	11.9	9.5	4.8	3.2
80°	949.6	243.2	25.4	11.1	8.7	6.4	5.6	7.9	5.6	0.8	0.0
82.5°	234.4	54.8	13.5	7.9	6.4	2.4	2.4	4.0	2.4	0.0	0.0
85°	128.7	27.0	8.7	5.6	3.2	0.0	0.0	0.8	0.0	0.0	0.0
87.5°	66.0	7.9	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
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)