

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: P323128

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323128
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-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 19763 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

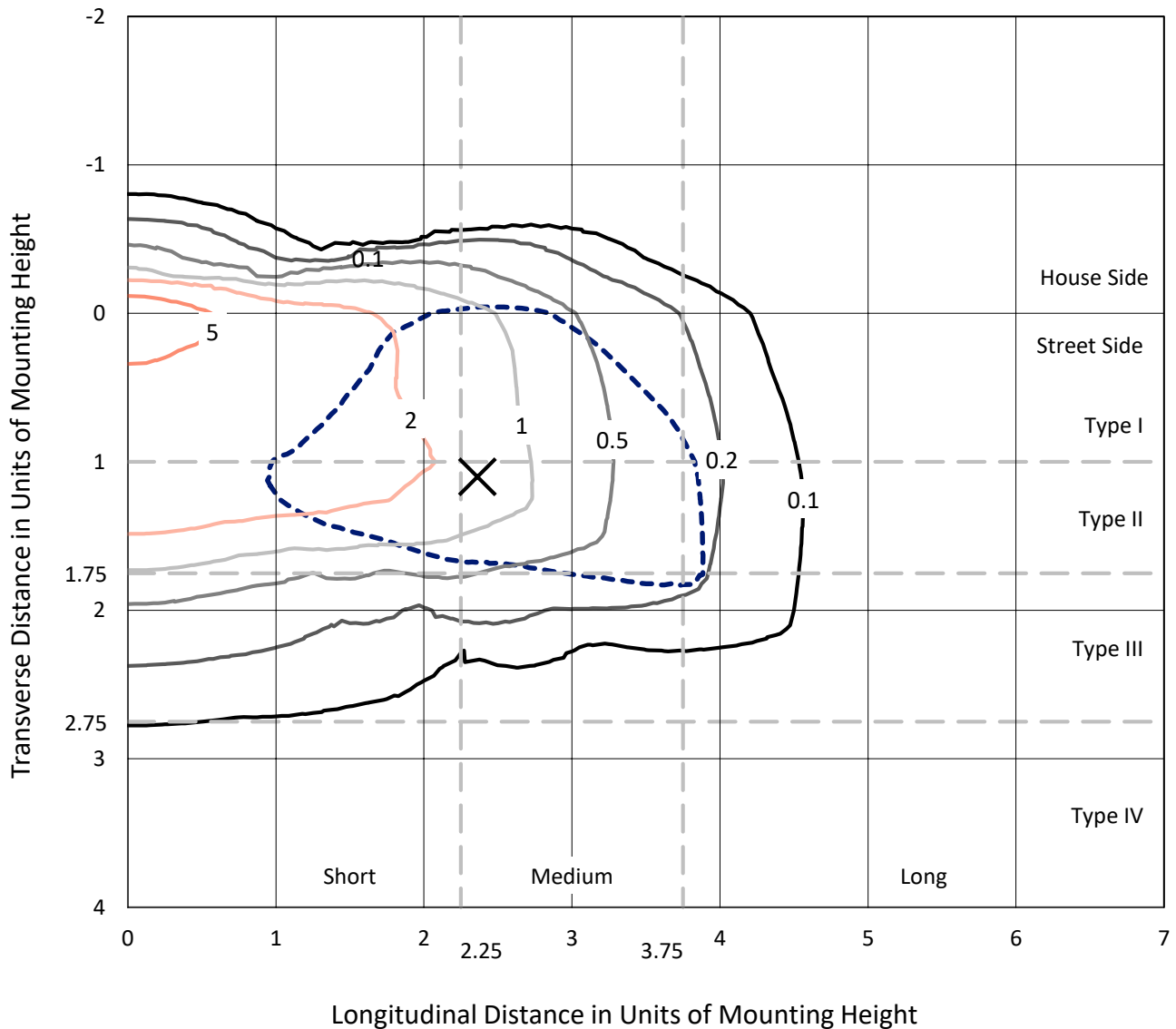
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

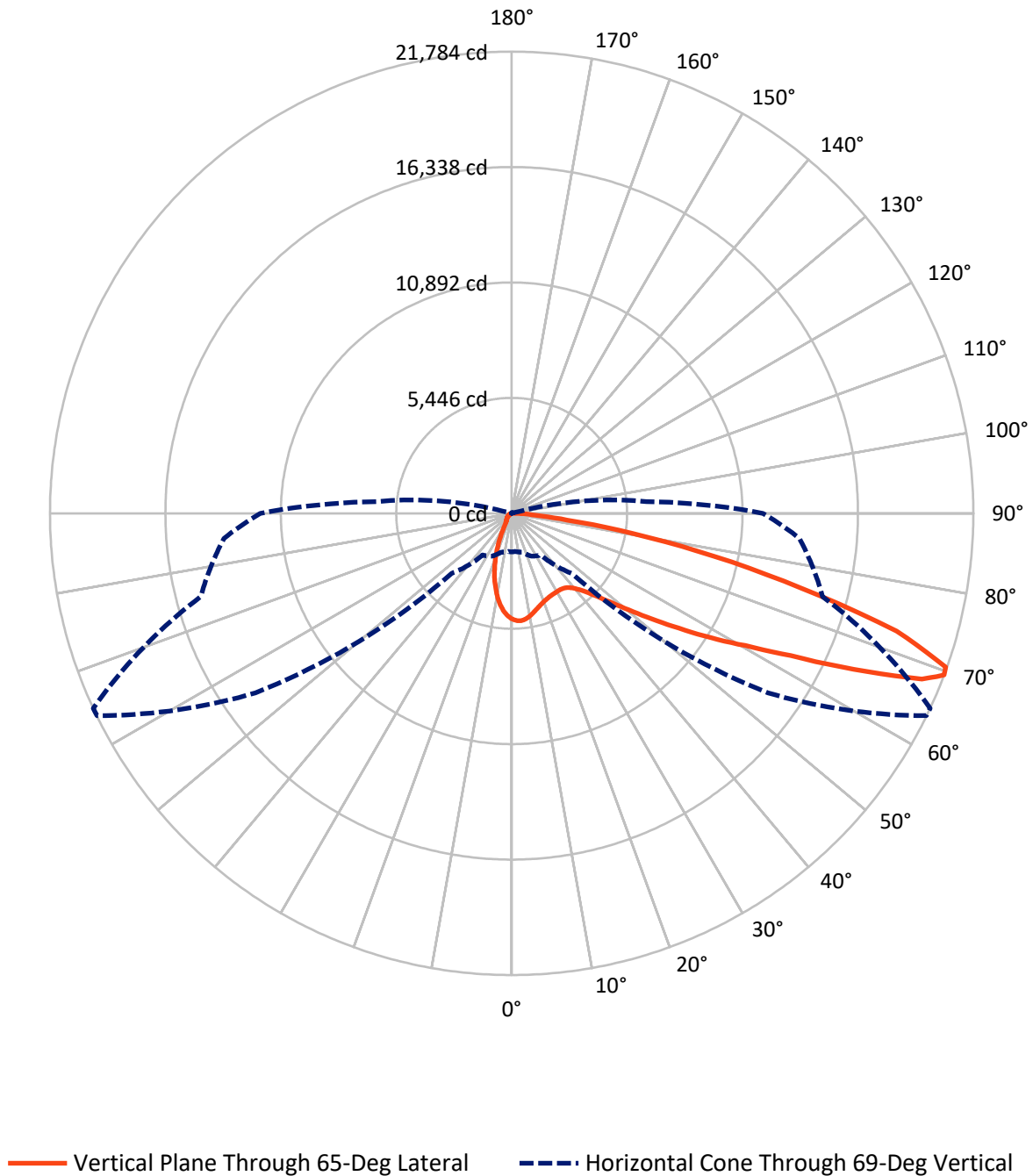
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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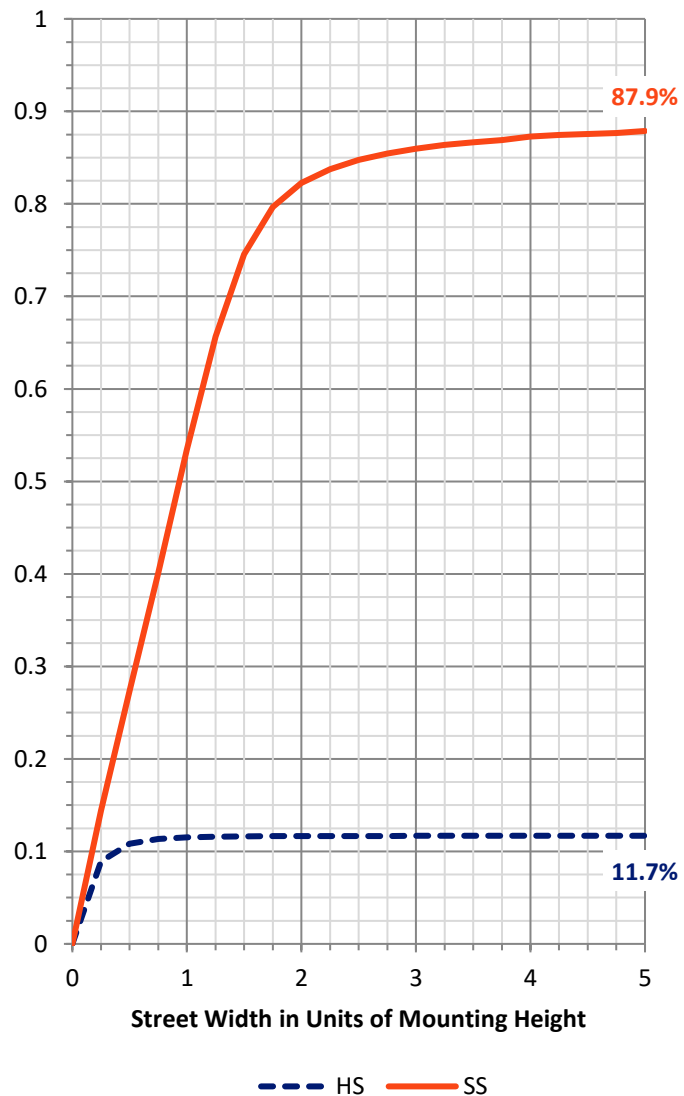
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2329.6	0.0	2329.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	17433.4	0.0	17433.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	19763.0	0.0	19763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.6	2.1
10°-20°	914.2	4.6
20°-30°	1266.2	6.4
30°-40°	1765.4	8.9
40°-50°	2744.1	13.9
50°-60°	4405.3	22.3
60°-70°	4983.1	25.2
70°-80°	2926.6	14.8
80°-90°	340.4	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°	19763.0	100.0
0°-180°	19763.0	100.0

Coefficient of Utilization



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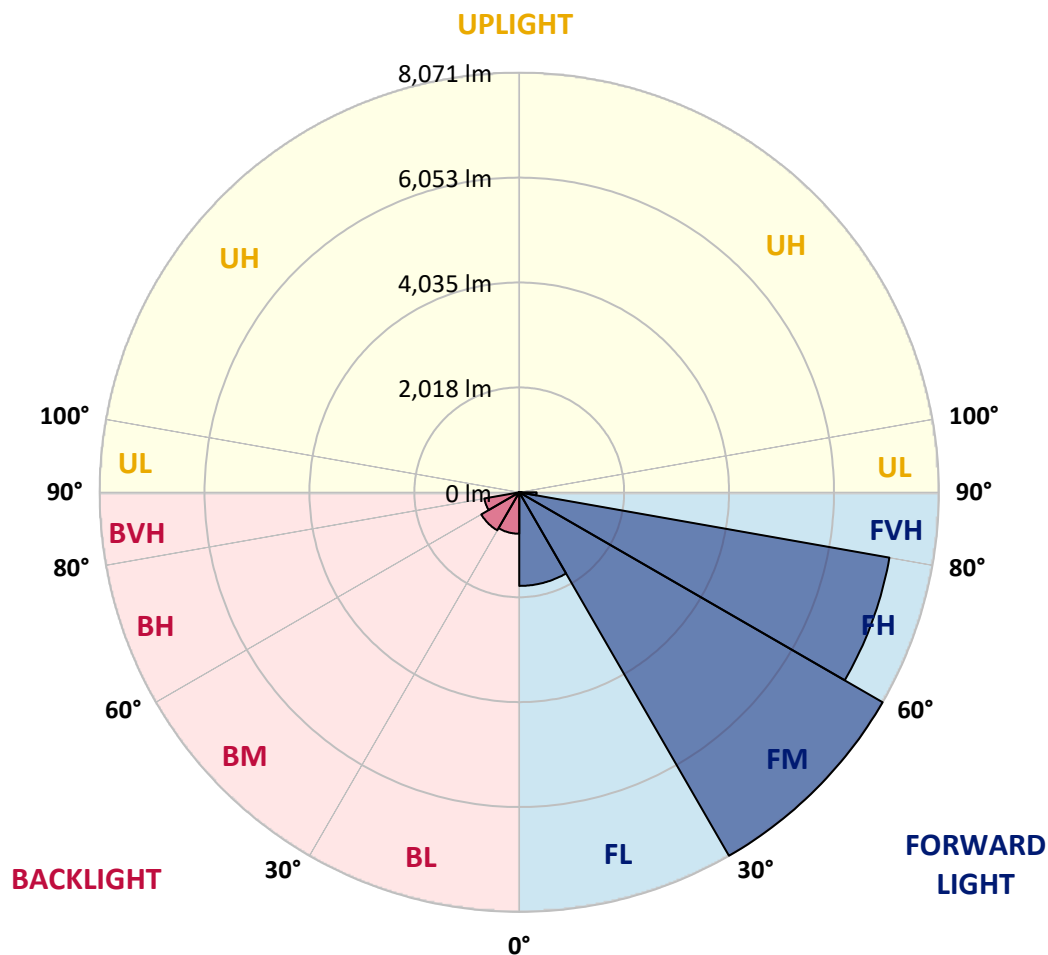
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1800.9	9.1			
FM	(30°-60°)	8070.6	40.8			
FH	(60°-80°)	7229.1	36.6			G3/7500
FVH	(80°-90°)	332.8	1.7			G3/500
BL	(0°-30°)	797.1	4.0	B2/1000		
BM	(30°-60°)	844.2	4.3	B1/1000		
BH	(60°-80°)	680.7	3.4	B2/1000		G2/1000
BVH	(80°-90°)	7.7	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°	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1
2.5°	5038.5	5025.9	5036.0	5057.7	5068.6	5068.6	5076.9	5066.9	5070.2	5046.0	5010.9
5°	4723.2	4704.0	4731.6	4792.6	4867.9	4932.3	5027.6	5077.8	5082.8	5083.6	5042.6
7.5°	4383.7	4366.1	4407.1	4479.0	4576.0	4695.6	4862.0	5007.5	5015.9	5094.5	5064.4
10°	4107.7	4095.2	4142.8	4219.8	4333.5	4467.3	4671.3	4873.7	4898.0	5071.9	5061.0
12.5°	3888.6	3878.6	3923.7	4012.4	4128.6	4276.6	4489.9	4724.9	4757.5	5020.9	5044.3
15°	3728.9	3727.2	3764.8	3850.1	3978.9	4116.9	4335.2	4586.9	4624.5	4965.7	5041.8
17.5°	3645.3	3647.8	3675.4	3748.1	3858.5	3995.7	4204.7	4470.6	4511.6	4916.4	5054.4
20°	3636.9	3639.4	3654.5	3695.4	3784.9	3906.2	4098.5	4372.8	4415.5	4879.6	5074.4
22.5°	3710.5	3708.8	3713.0	3708.8	3759.0	3851.0	4028.3	4297.5	4346.9	4855.3	5090.3
25°	3851.8	3849.3	3847.6	3816.7	3783.2	3832.6	3999.0	4254.9	4301.7	4837.8	5099.5
27.5°	4048.3	4046.7	4044.2	3993.1	3892.8	3861.8	4002.3	4239.0	4278.3	4823.5	5097.8
30°	4306.7	4318.4	4315.1	4244.0	4087.6	3951.3	4037.5	4230.6	4264.9	4796.0	5080.3
32.5°	4610.3	4633.7	4652.1	4576.0	4380.3	4128.6	4118.6	4239.8	4264.9	4775.0	5048.5
35°	4925.6	4955.7	5023.4	4996.7	4739.1	4395.4	4258.2	4295.0	4315.9	4786.8	5033.4
37.5°	5235.8	5271.8	5419.0	5496.7	5209.1	4748.3	4475.7	4431.3	4442.2	4857.8	5050.2
40°	5596.3	5650.6	5873.9	5999.3	5770.2	5220.8	4801.0	4665.5	4669.7	5014.2	5127.9
42.5°	6069.6	6125.6	6367.3	6563.8	6402.4	5817.9	5242.5	5023.4	5019.2	5306.9	5311.1
45°	6646.6	6705.1	6955.2	7173.4	7100.7	6525.3	5807.8	5546.1	5541.1	5768.5	5658.1
47.5°	7300.5	7358.3	7581.5	7806.5	7885.1	7351.6	6527.8	6259.4	6247.7	6409.9	6194.2
50°	7861.7	7899.3	8105.0	8407.8	8762.3	8366.8	7423.5	7165.1	7152.5	7262.1	6981.1
52.5°	8065.7	8087.5	8296.5	8720.5	9605.3	9741.6	8600.1	8267.3	8258.1	8305.7	8028.9
55°	7652.6	7691.9	7948.7	8577.5	10061.9	11295.4	10085.3	9632.0	9562.6	9459.8	9124.4
57.5°	6527.0	6589.7	6865.7	7702.0	9848.6	12528.0	12267.9	11175.8	11073.8	10444.9	10015.0
60°	4890.4	4967.4	5196.5	6098.8	8710.5	12967.0	14652.9	12896.0	12666.0	11229.3	10833.7
62.5°	3355.9	3394.4	3549.9	4137.8	6415.0	12247.9	16648.3	15199.9	14780.1	12082.3	11719.3
65°	2563.1	2576.5	2640.1	2842.4	3820.0	9949.0	17441.9	18239.7	17732.1	13102.5	12638.4
67.5°	2065.6	2054.7	2142.5	2431.8	2558.1	6069.6	16516.1	21115.6	20878.1	14466.5	13563.3
69°	1821.4	1806.3	1895.8	2232.0	2402.6	4012.4	14765.0	21768.7	21783.7	15186.5	13626.9
70°	1639.1	1649.1	1737.7	2113.2	2349.9	3149.4	13092.5	21602.3	21721.0	15455.8	13245.5
72.5°	1094.7	1121.4	1299.5	1754.5	2259.6	2383.3	7905.2	18537.4	18994.0	14849.5	11363.9
75°	617.2	637.2	848.8	1323.0	2129.1	2269.6	4175.4	13657.0	14098.5	12417.6	8763.2
77.5°	302.7	313.6	480.0	853.8	1780.4	2162.6	2368.3	9276.6	9780.9	8105.0	4956.5
80°	127.9	133.8	240.0	526.8	1272.8	2063.9	1758.7	5709.1	5771.9	3175.3	1320.5
82.5°	49.3	51.0	101.2	328.7	808.7	1609.0	1471.0	2707.0	2641.7	597.9	301.1
85°	5.9	6.7	36.8	197.4	449.9	827.9	1195.0	1166.6	1079.6	118.7	154.7
87.5°	0.0	0.0	2.5	60.2	133.8	388.0	621.3	484.2	436.5	38.5	80.3
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°	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1
2.5°	4981.6	4973.2	4928.1	4862.9	4801.0	4724.0	4650.4	4606.1	4571.0	4547.6	4575.2
5°	4995.0	4958.2	4821.0	4645.4	4473.2	4279.1	4098.5	3945.5	3885.3	3818.4	3848.5
7.5°	4990.8	4921.4	4674.7	4361.9	4045.8	3718.8	3409.4	3171.1	3047.3	2926.1	2957.0
10°	4969.9	4852.8	4479.0	4015.7	3542.4	3072.4	2633.4	2299.7	2113.2	1944.3	1968.6
12.5°	4923.9	4760.8	4248.2	3619.3	2986.3	2366.6	1852.3	1425.0	1195.9	1094.7	1107.2
15°	4896.3	4671.3	4004.0	3217.9	2392.5	1648.3	1132.3	842.1	737.6	704.1	708.3
17.5°	4882.9	4585.2	3751.5	2758.8	1785.4	1049.5	731.7	645.6	623.0	617.2	618.8
20°	4869.5	4498.2	3491.4	2304.7	1230.1	705.8	601.3	576.2	567.8	560.3	562.0
22.5°	4847.0	4414.6	3212.1	1844.8	829.6	572.8	541.9	517.6	500.1	490.9	492.6
25°	4819.4	4326.8	2926.9	1374.0	605.5	511.0	481.7	447.4	426.5	409.8	410.6
27.5°	4775.0	4218.9	2632.5	1000.2	508.4	457.4	418.1	380.5	345.4	326.1	326.1
30°	4713.2	4096.8	2305.6	715.8	455.8	404.7	357.1	310.3	272.6	255.1	253.4
32.5°	4644.6	3969.7	1975.2	542.7	413.9	355.4	301.1	251.7	218.3	204.0	203.2
35°	4586.0	3832.6	1645.8	454.9	372.1	307.7	248.4	206.6	179.8	168.1	167.3
37.5°	4548.4	3695.4	1324.6	406.4	334.5	263.4	208.2	170.6	151.4	142.2	141.3
40°	4542.6	3593.4	1031.1	369.6	299.4	224.1	173.9	144.7	127.1	117.1	116.2
42.5°	4618.7	3534.9	791.1	338.7	263.4	189.8	148.0	123.8	105.4	95.3	94.5
45°	4818.5	3553.3	608.8	311.1	227.5	160.6	125.4	102.9	86.1	78.6	76.9
47.5°	5183.1	3680.4	484.2	283.5	193.2	136.3	107.0	85.3	71.1	63.6	62.7
50°	5832.1	3978.9	404.7	253.4	161.4	116.2	88.6	69.4	57.7	51.0	50.2
52.5°	6693.4	4510.8	361.3	224.1	133.8	98.7	72.8	55.2	45.2	40.1	39.3
55°	7643.4	5154.7	332.8	192.3	109.6	82.0	57.7	43.5	35.1	30.9	29.3
57.5°	8570.8	5712.5	306.1	161.4	91.2	66.9	46.0	34.3	27.6	23.4	22.6
60°	9423.0	6225.1	275.1	129.6	74.4	52.7	36.0	26.8	21.7	17.6	17.6
62.5°	10335.3	6621.5	232.5	101.2	61.0	40.1	29.3	24.3	17.6	15.1	14.2
65°	11302.1	6915.9	182.3	78.6	47.7	30.1	24.3	25.1	14.2	10.9	10.0
67.5°	12016.2	6857.3	134.6	61.9	36.8	23.4	23.4	26.8	12.5	8.4	7.5
69°	11859.0	6381.5	112.9	53.5	31.8	20.1	21.7	26.8	11.7	7.5	6.7
70°	11403.2	5854.7	99.5	47.7	28.4	18.4	20.9	25.9	10.9	7.5	6.7
72.5°	9496.6	4409.6	77.8	36.0	22.6	15.1	17.6	22.6	10.9	7.5	5.9
75°	7143.3	2822.4	59.4	25.9	16.7	11.7	13.4	16.7	10.9	6.7	5.9
77.5°	3886.9	1017.7	42.6	17.6	11.7	9.2	9.2	12.5	10.0	5.0	3.3
80°	999.3	255.9	26.8	11.7	9.2	6.7	5.9	8.4	5.9	0.8	0.0
82.5°	246.7	57.7	14.2	8.4	6.7	2.5	2.5	4.2	2.5	0.0	0.0
85°	135.5	28.4	9.2	5.9	3.3	0.0	0.0	0.8	0.0	0.0	0.0
87.5°	69.4	8.4	2.5	1.7	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)