

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: P320120

Luminaire Tested: **GAN-SA6B-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23875 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 249
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

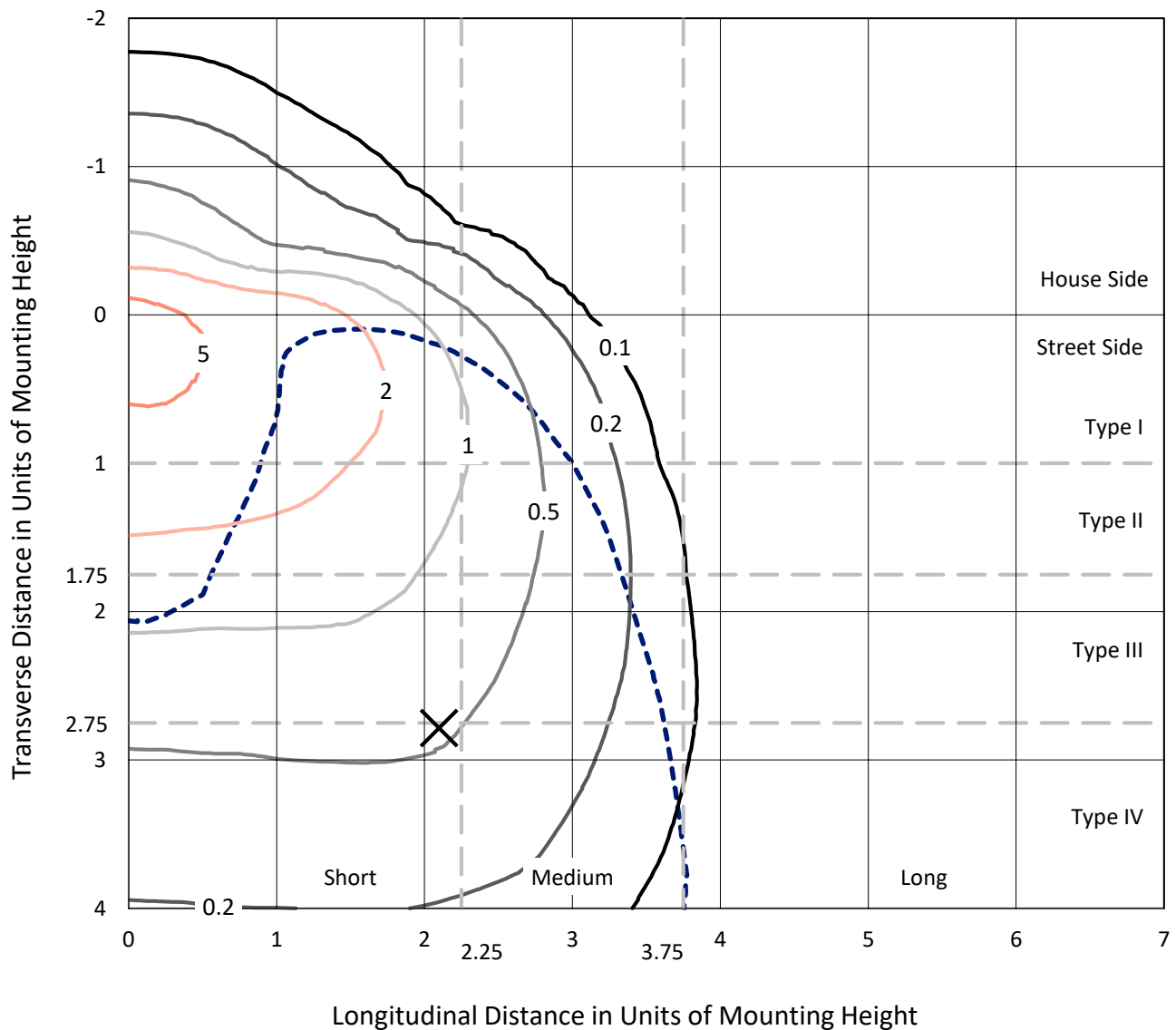


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Iso-Footcandle Lines of Horizontal Illumination

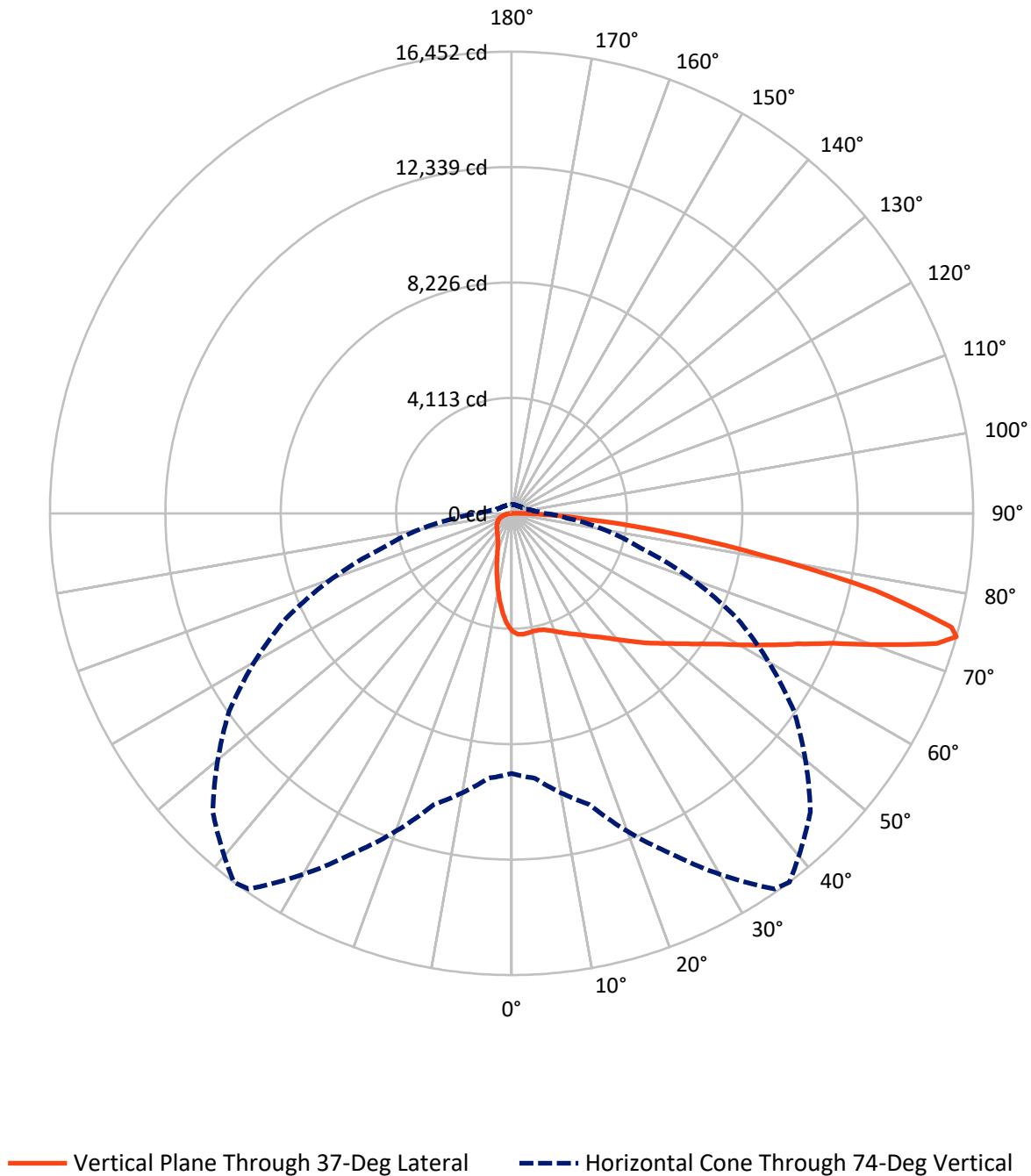
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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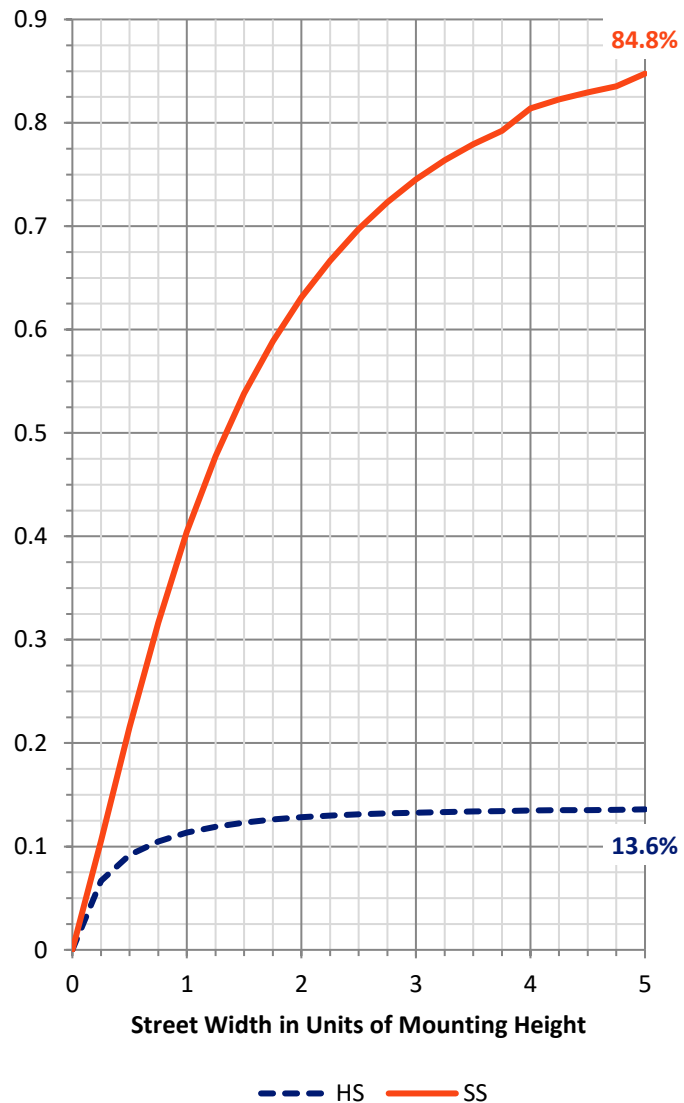
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3285.0	0.0	3285.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	20590.0	0.0	20590.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	23875.0	0.0	23875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.4	1.6
10°-20°	949.6	4.0
20°-30°	1463.1	6.1
30°-40°	2127.5	8.9
40°-50°	3131.4	13.1
50°-60°	4397.4	18.4
60°-70°	5565.8	23.3
70°-80°	4900.9	20.5
80°-90°	969.0	4.1
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°	23875.0	100.0
0°-180°	23875.0	100.0

Coefficient of Utilization



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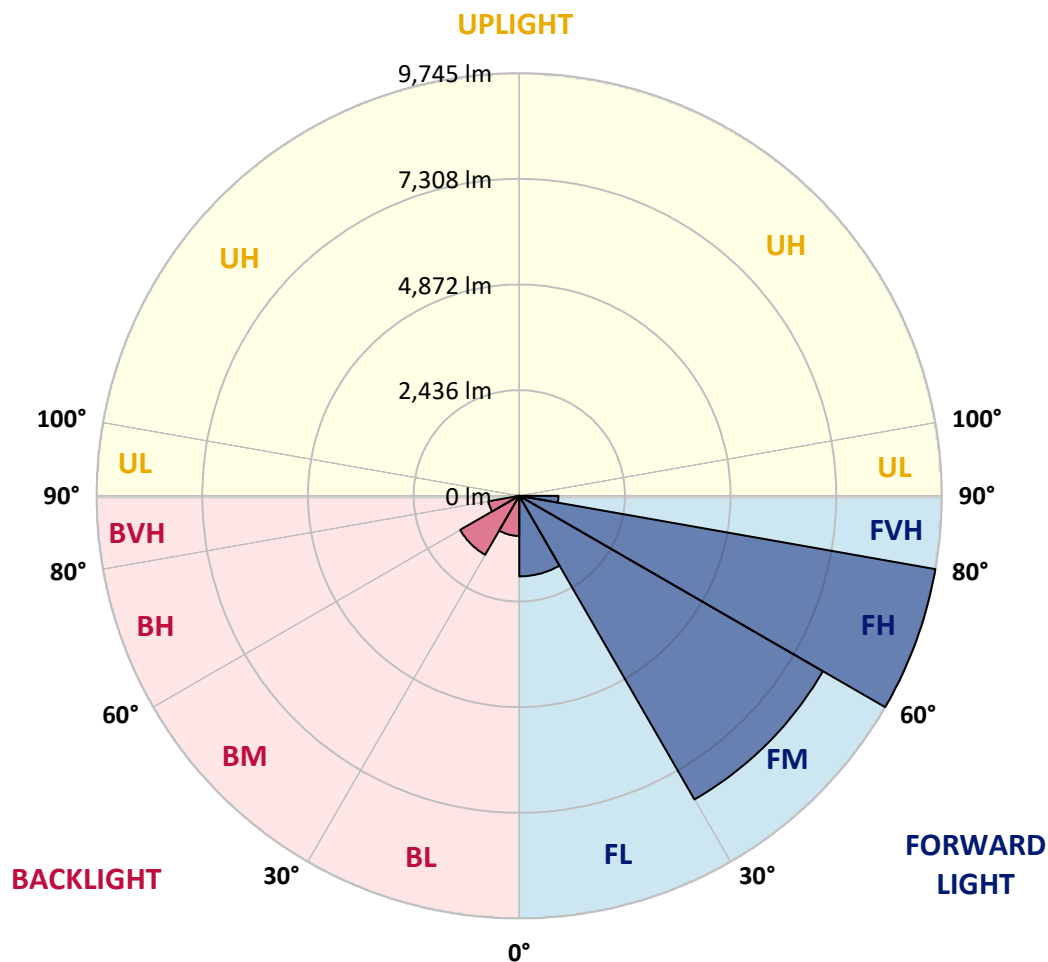
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1857.8	7.8			
FM	(30°-60°)	8084.3	33.9			
FH	(60°-80°)	9744.6	40.8			G4/12000
FVH	(80°-90°)	903.4	3.8			G5
BL	(0°-30°)	925.3	3.9	B2/1000		
BM	(30°-60°)	1572.0	6.6	B2/2500		
BH	(60°-80°)	722.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	65.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7
2.5°	4350.5	4351.3	4350.5	4343.8	4327.8	4314.3	4303.4	4287.4	4252.1	4225.2	4184.8
5°	4391.7	4386.7	4383.3	4370.7	4345.4	4330.3	4309.3	4279.0	4221.0	4167.2	4101.6
7.5°	4372.4	4366.5	4358.9	4343.8	4315.2	4302.6	4273.1	4233.6	4163.8	4093.1	3999.0
10°	4312.6	4311.0	4307.6	4304.2	4279.8	4269.8	4242.8	4200.8	4131.8	4046.1	3935.9
12.5°	4246.2	4250.4	4263.9	4281.5	4270.6	4265.6	4248.7	4220.1	4149.5	4057.0	3924.1
15°	4204.2	4215.9	4252.1	4298.4	4307.6	4305.9	4301.7	4283.2	4208.4	4105.8	3951.0
17.5°	4189.9	4209.2	4278.2	4354.7	4381.6	4387.5	4389.2	4357.2	4274.0	4165.5	3978.8
20°	4215.9	4240.3	4341.2	4446.4	4489.3	4492.6	4485.1	4429.5	4336.2	4216.8	3993.9
22.5°	4295.0	4316.9	4443.0	4561.6	4610.4	4615.4	4592.7	4508.6	4401.8	4277.3	4014.9
25°	4447.2	4474.1	4600.3	4718.9	4744.1	4744.9	4712.1	4607.8	4487.6	4362.3	4060.3
27.5°	4645.7	4672.6	4786.1	4902.2	4888.7	4881.2	4836.6	4732.3	4599.4	4479.2	4141.1
30°	4866.9	4896.3	5004.0	5086.4	5054.4	5039.3	5003.1	4868.5	4755.0	4639.0	4264.7
32.5°	5095.6	5122.5	5216.7	5273.1	5232.7	5226.0	5171.3	5048.5	4957.7	4882.8	4464.9
35°	5330.3	5349.6	5442.1	5474.1	5420.2	5418.6	5403.4	5290.7	5233.5	5268.9	4755.9
37.5°	5569.9	5575.0	5654.0	5655.7	5639.7	5646.5	5662.5	5591.8	5607.8	5718.0	5134.3
40°	5783.6	5797.0	5854.2	5871.9	5899.6	5923.2	6003.1	5956.8	6080.4	6275.5	5605.3
42.5°	5941.7	5967.7	6059.4	6104.8	6194.8	6231.8	6344.5	6387.4	6636.3	6929.0	6165.4
45°	6075.4	6115.8	6262.9	6356.3	6508.5	6573.3	6734.7	6878.5	7264.6	7638.0	6754.9
47.5°	6220.0	6271.3	6455.5	6633.8	6840.7	6913.9	7207.4	7422.7	7934.8	8351.1	7310.8
50°	6432.8	6472.3	6652.3	6932.4	7190.6	7284.7	7690.9	7999.6	8616.0	9030.7	7792.7
52.5°	6729.7	6714.5	6866.8	7259.5	7606.0	7722.1	8207.3	8613.5	9306.5	9645.4	8199.8
55°	7028.2	7003.0	7109.8	7601.8	8090.4	8212.4	8775.8	9230.0	9963.3	10198.8	8511.8
57.5°	7360.4	7312.5	7402.5	7987.8	8642.1	8787.6	9412.5	9885.1	10609.2	10646.2	8710.2
60°	7702.7	7638.0	7738.9	8466.3	9342.7	9514.2	10157.6	10524.3	11218.1	11004.5	8774.2
62.5°	8002.1	7956.7	8112.3	9000.4	10132.4	10320.8	10889.3	11203.8	11818.6	11153.3	8543.7
65°	8263.7	8271.2	8540.4	9600.9	11012.9	11213.9	11728.6	12041.4	12291.2	11065.0	8004.6
67.5°	8575.7	8618.6	9077.8	10391.4	12121.3	12341.7	12949.7	12954.8	12555.3	10547.0	6943.3
70°	9030.7	9119.0	9817.0	11488.1	13697.4	14000.1	14469.4	13491.3	12184.4	9142.5	5463.1
72.5°	9434.3	9599.2	10603.3	12742.8	15618.2	15847.8	15358.3	13181.8	10634.4	6851.6	3403.5
74°	9270.3	9474.7	10746.3	13361.0	16341.5	16451.6	15058.1	12278.6	8866.7	4744.9	1978.0
75°	8917.1	9139.1	10537.7	13355.1	16249.8	16188.4	14333.2	11246.7	7302.4	3236.2	1316.2
77.5°	7196.4	7431.1	8879.3	11446.0	13324.0	13265.9	11010.4	7544.6	3198.3	1061.3	668.6
80°	4184.0	4363.1	5511.9	7268.8	8984.4	9089.5	7241.0	3733.2	1258.1	596.3	453.3
82.5°	1858.6	1982.2	2662.6	3710.5	5421.9	5557.3	3792.1	1956.2	777.1	362.5	272.5
85°	1219.5	1311.1	1616.4	1766.9	2581.9	2674.4	1856.1	1523.1	513.0	199.3	200.2
87.5°	877.2	965.5	1200.9	1048.7	1185.0	1121.9	1010.0	1409.5	206.0	113.5	67.3
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°	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7
2.5°	4167.2	4153.7	4123.4	4066.2	4034.3	4007.4	3962.8	3936.7	3924.9	3924.1	3929.2
5°	4063.7	4032.6	3954.4	3858.5	3782.0	3712.2	3625.6	3573.4	3536.4	3514.5	3520.4
7.5°	3943.4	3894.7	3771.9	3618.8	3496.0	3360.6	3226.9	3147.0	3084.8	3038.5	3046.9
10°	3861.0	3793.8	3614.6	3394.3	3189.9	2993.1	2808.9	2698.8	2611.3	2544.0	2549.1
12.5°	3833.3	3742.5	3494.4	3200.0	2913.2	2644.1	2403.6	2234.5	2144.6	2068.0	2073.9
15°	3837.5	3715.5	3393.4	3025.1	2664.3	2325.4	2033.5	1835.9	1714.0	1661.0	1661.8
17.5°	3840.8	3684.4	3287.5	2837.5	2417.9	2027.7	1710.6	1510.4	1395.2	1346.4	1347.3
20°	3829.9	3634.0	3156.3	2622.2	2160.5	1754.3	1447.4	1277.5	1190.0	1152.2	1152.2
22.5°	3815.6	3574.3	3008.3	2406.1	1906.5	1517.2	1259.0	1129.5	1079.0	1053.8	1052.9
25°	3822.3	3529.7	2856.9	2184.1	1672.7	1327.9	1133.7	1047.9	1014.2	998.3	997.4
27.5°	3858.5	3508.7	2717.3	1962.9	1468.4	1185.8	1049.6	989.0	967.2	957.1	957.1
30°	3924.1	3508.7	2571.8	1774.5	1298.5	1080.7	984.8	943.6	928.5	921.7	921.7
32.5°	4038.5	3528.0	2431.3	1587.8	1163.1	998.3	931.0	903.2	891.5	888.1	888.1
35°	4235.3	3593.6	2294.2	1411.2	1053.8	931.0	879.7	863.7	855.3	854.5	857.0
37.5°	4512.0	3727.3	2165.6	1280.8	976.4	876.3	836.8	824.2	819.1	823.3	826.7
40°	4860.1	3909.0	2048.7	1163.1	917.5	832.6	797.3	788.9	786.3	792.2	797.3
42.5°	5280.6	4154.5	1952.8	1078.2	872.1	795.6	763.6	753.5	751.0	757.7	764.5
45°	5735.6	4418.6	1885.5	1015.1	836.8	767.8	734.2	723.3	718.2	721.6	729.1
47.5°	6149.4	4668.4	1858.6	970.5	803.2	744.3	708.1	694.7	686.3	684.6	690.5
50°	6498.4	4854.3	1871.2	943.6	776.2	718.2	682.9	667.8	655.1	647.6	651.8
52.5°	6752.4	4971.2	1883.0	931.8	755.2	689.6	655.1	640.8	624.0	611.4	611.4
55°	6936.6	4998.1	1856.9	922.6	739.2	658.5	624.0	610.6	593.7	579.4	577.8
57.5°	7008.9	4922.4	1760.2	909.1	728.3	629.1	591.2	581.1	566.8	550.0	549.2
60°	6911.3	4688.6	1573.5	880.5	714.0	604.7	558.4	551.7	545.0	529.0	528.1
62.5°	6519.4	4175.6	1332.1	822.5	685.4	578.6	528.1	531.5	532.4	521.4	519.7
65°	5808.8	3470.8	1096.7	746.8	642.5	547.5	497.0	513.0	522.3	520.6	518.1
67.5°	4776.0	2701.3	929.3	666.9	586.2	504.6	463.4	481.9	489.5	495.3	493.7
70°	3544.8	1904.9	768.7	582.8	518.1	454.1	419.7	428.9	423.9	430.6	433.1
72.5°	1976.4	1142.9	626.5	498.7	447.4	395.3	370.9	369.2	358.3	358.3	358.3
74°	1185.8	838.5	550.9	446.6	404.5	356.6	335.6	328.0	317.9	318.7	317.9
75°	953.7	720.7	505.4	412.1	374.2	333.9	312.9	302.8	295.2	295.2	294.4
77.5°	602.2	547.5	407.0	328.0	299.4	275.0	260.7	247.3	247.3	246.4	245.6
80°	455.0	435.6	317.1	248.1	229.6	211.1	201.8	196.0	196.0	198.5	197.6
82.5°	312.0	328.0	222.9	173.2	164.0	150.5	148.9	149.7	147.2	143.8	143.0
85°	227.9	246.4	150.5	109.3	100.1	91.7	98.4	101.8	97.6	90.0	86.6
87.5°	87.5	161.5	80.7	45.4	42.1	36.2	42.1	43.7	47.1	37.0	37.8
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)