

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: P319539

Luminaire Tested: **GAN-SA5D-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319539
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-SA5D-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 30188 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

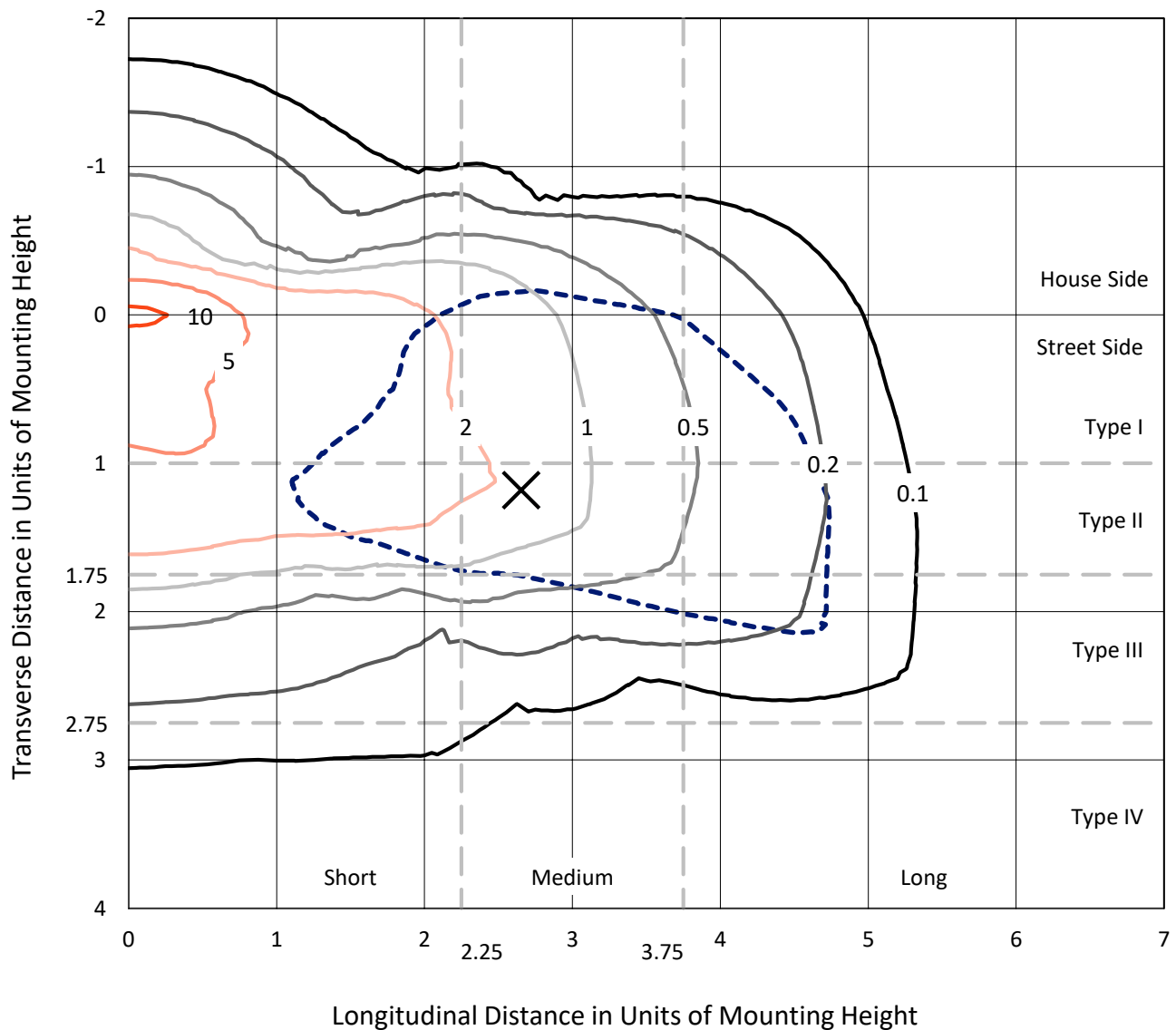


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Iso-Footcandle Lines of Horizontal Illumination

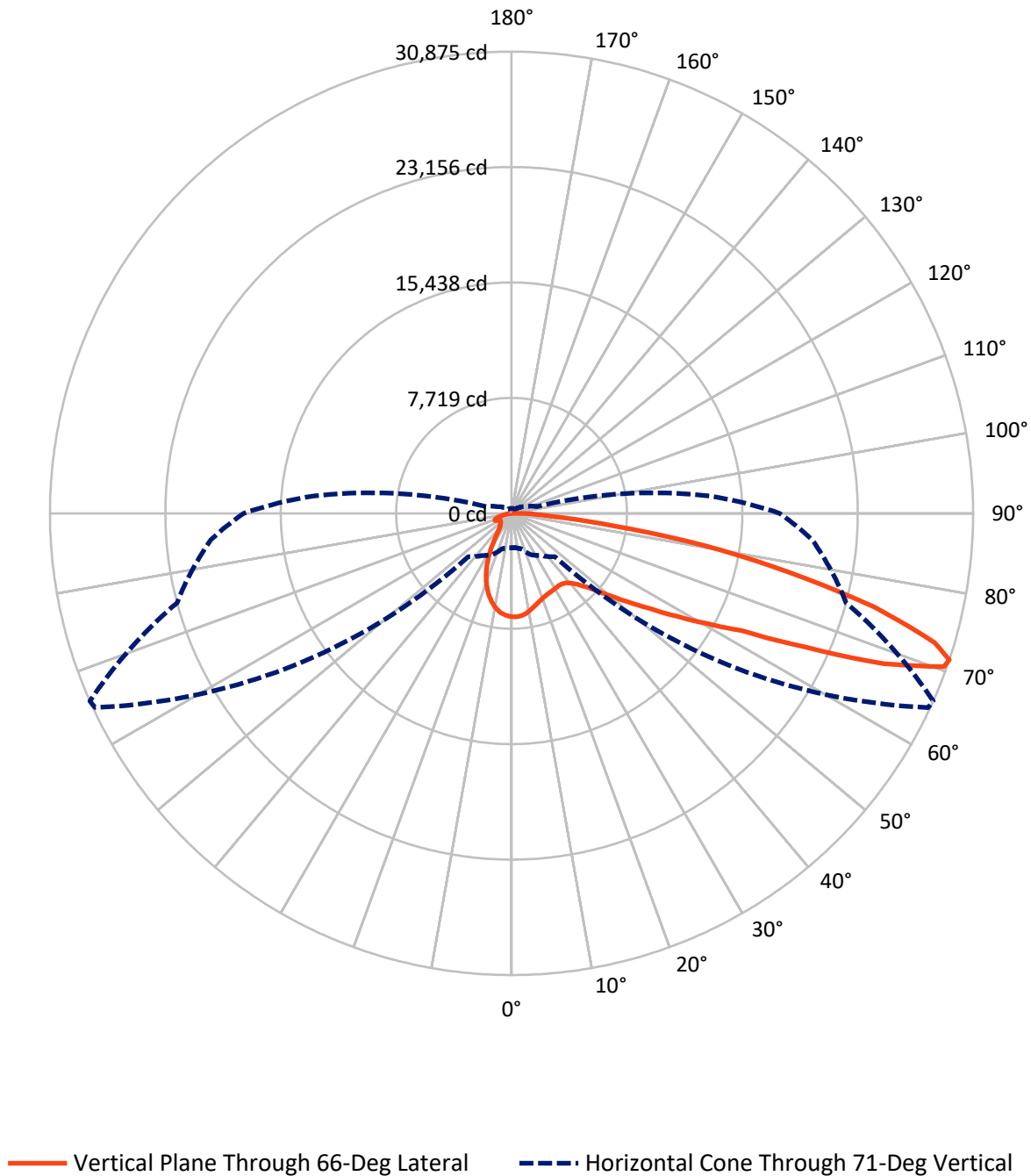
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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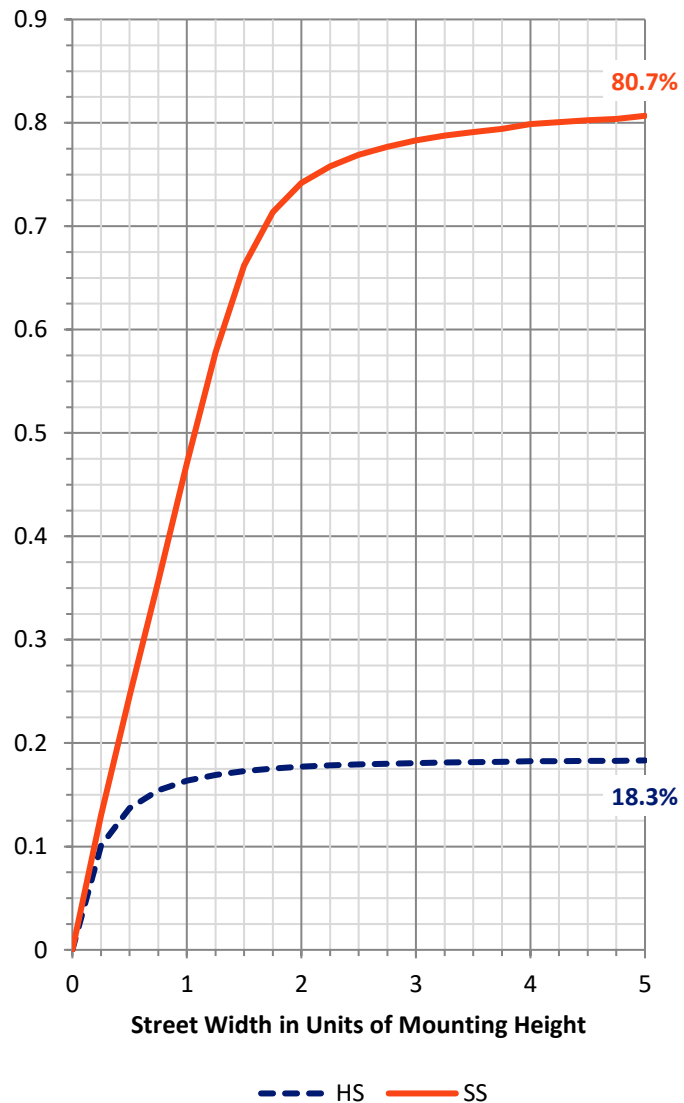
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5594.7	0.0	5594.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	24593.3	0.0	24593.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	30188.0	0.0	30188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.7	2.0
10°-20°	1460.0	4.8
20°-30°	1961.1	6.5
30°-40°	2579.8	8.5
40°-50°	3753.0	12.4
50°-60°	5862.6	19.4
60°-70°	7343.8	24.3
70°-80°	5601.7	18.6
80°-90°	1017.2	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°	30188.0	100.0
0°-180°	30188.0	100.0

Coefficient of Utilization



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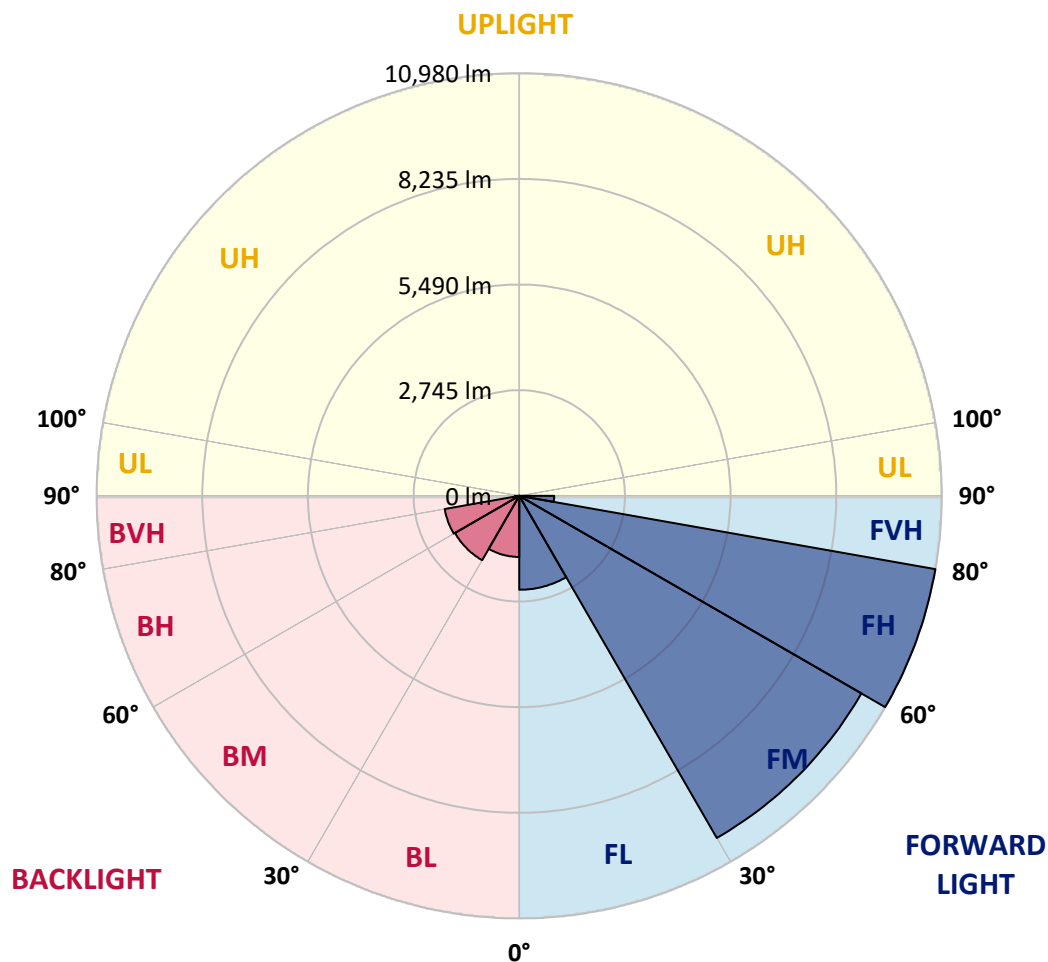
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2441.1	8.1			
FM	(30°-60°)	10265.4	34.0			
FH	(60°-80°)	10979.7	36.4			G4/12000
FVH	(80°-90°)	907.1	3.0			G5
BL	(0°-30°)	1588.7	5.3	B3/2500		
BM	(30°-60°)	1930.0	6.4	B2/2500		
BH	(60°-80°)	1965.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	110.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5
2.5°	6787.3	6776.9	6808.1	6840.4	6852.9	6873.8	6905.1	6922.8	6921.7	6924.9	6914.4
5°	6337.0	6323.5	6386.0	6437.1	6535.1	6645.5	6780.0	6875.9	6878.0	6932.2	6946.8
7.5°	5910.7	5901.4	5973.3	6055.6	6169.2	6338.1	6555.9	6762.3	6774.8	6921.7	6972.8
10°	5568.9	5566.8	5636.6	5726.3	5858.6	6047.3	6297.4	6599.7	6618.4	6871.7	6977.0
12.5°	5302.0	5306.2	5366.7	5468.8	5608.5	5805.5	6076.5	6417.3	6447.5	6792.5	6953.0
15°	5105.1	5121.7	5170.7	5273.9	5411.5	5611.6	5889.9	6248.4	6294.3	6703.9	6939.5
17.5°	4992.5	5011.3	5045.6	5131.1	5260.4	5453.2	5716.9	6109.8	6151.5	6636.2	6940.5
20°	4959.1	4974.8	4994.6	5046.7	5156.1	5331.2	5580.3	5984.7	6029.6	6582.0	6950.9
22.5°	5024.8	5036.3	5038.4	5034.2	5100.9	5243.7	5481.3	5893.0	5941.0	6546.5	6958.2
25°	5165.5	5181.1	5169.7	5131.1	5109.2	5196.8	5430.2	5832.6	5880.5	6520.5	6943.6
27.5°	5377.1	5379.2	5369.8	5319.8	5216.6	5202.0	5414.6	5797.1	5843.0	6490.2	6913.4
30°	5664.8	5678.3	5661.6	5593.9	5425.0	5285.4	5433.4	5762.7	5804.4	6451.7	6864.4
32.5°	6001.4	6034.8	6033.7	5962.8	5721.0	5471.9	5510.5	5741.9	5774.2	6411.0	6805.0
35°	6350.6	6396.4	6481.9	6451.7	6152.5	5766.9	5658.5	5775.2	5797.1	6405.8	6763.3
37.5°	6713.3	6759.1	6935.3	7016.6	6666.4	6189.0	5892.0	5893.0	5903.4	6469.4	6760.2
40°	7092.7	7141.7	7406.4	7618.0	7332.4	6723.7	6268.2	6139.0	6127.5	6625.7	6821.7
42.5°	7624.2	7668.0	7985.9	8255.9	8071.4	7408.5	6788.3	6518.4	6494.4	6932.2	7018.7
45°	8296.5	8334.0	8671.7	8960.4	8865.6	8190.2	7441.8	7040.6	7036.4	7442.9	7417.9
47.5°	9095.9	9125.1	9428.4	9707.7	9742.1	9089.7	8263.1	7846.2	7778.5	8143.3	8035.9
50°	9928.7	9961.0	10167.4	10467.6	10722.9	10293.5	9320.0	8833.3	8742.6	9067.8	8911.4
52.5°	10480.1	10522.8	10702.1	11082.5	11825.6	11613.0	10569.7	10029.8	9892.2	10188.2	10068.4
55°	10234.1	10330.0	10604.1	11213.8	12707.4	13628.8	12111.2	11425.4	11270.1	11516.1	11445.2
57.5°	9115.7	9247.1	9621.2	10562.4	12831.4	15404.8	14441.7	13069.1	12959.6	12888.8	12921.1
60°	7071.8	7197.9	7661.8	8888.5	11967.4	16701.4	17949.0	15095.3	14936.8	14266.6	14295.8
62.5°	5005.0	4941.4	5259.3	6156.7	9724.4	16853.6	21939.9	17805.2	17284.0	15721.7	15593.5
65°	3816.8	3802.2	3945.0	4230.6	5889.9	15032.7	24317.3	22359.9	21545.9	17433.1	17130.8
67.5°	3136.2	3110.1	3250.9	3666.7	3792.8	9698.4	24369.4	27644.2	26844.8	19563.5	18908.9
70°	2578.6	2549.4	2680.7	3217.5	3505.2	4918.5	20509.9	30738.7	30696.0	22260.9	20251.4
71°	2311.8	2290.9	2448.3	3044.5	3443.7	4099.3	17708.2	30747.1	30875.3	23173.9	20172.2
72.5°	1882.3	1889.6	2056.4	2709.9	3397.8	3619.8	13014.9	29313.9	29584.9	24044.2	19452.0
75°	1250.7	1257.0	1475.9	2084.5	3294.6	3541.6	7153.1	24597.7	25095.9	23523.1	17749.9
77.5°	840.1	838.0	987.0	1430.0	2870.4	3541.6	4194.1	18397.2	18944.4	18717.2	13684.0
80°	578.5	574.3	679.6	987.0	2173.1	3584.4	3242.5	12892.9	13058.6	10108.0	5561.6
82.5°	354.4	357.5	444.0	697.3	1479.0	3225.8	3061.2	7030.1	6849.8	2835.0	1389.4
85°	203.2	202.2	283.5	472.2	949.5	2722.4	2985.1	3025.7	2775.6	853.6	502.4
87.5°	73.0	78.2	152.2	261.6	544.1	1895.9	2532.7	1573.8	1418.5	385.6	227.2
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°	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5
2.5°	6907.1	6913.4	6906.1	6864.4	6829.0	6771.7	6739.3	6694.5	6681.0	6674.7	6691.4
5°	6933.2	6935.3	6873.8	6764.4	6641.4	6496.5	6392.3	6264.1	6203.6	6177.6	6194.2
7.5°	6957.2	6947.8	6813.3	6603.8	6376.6	6124.4	5900.3	5695.0	5575.1	5526.1	5530.3
10°	6960.3	6920.7	6704.9	6380.8	6028.5	5658.5	5314.6	4997.7	4797.6	4667.3	4706.9
12.5°	6928.0	6861.3	6545.5	6092.1	5603.3	5098.8	4633.9	4158.7	3873.1	3740.7	3744.9
15°	6903.0	6782.1	6349.5	5752.3	5095.7	4427.6	3792.8	3234.2	2929.8	2794.3	2730.8
17.5°	6882.1	6696.6	6122.3	5369.8	4496.4	3649.0	2886.1	2387.8	2221.1	2181.5	2164.8
20°	6852.9	6605.9	5869.0	4926.8	3813.7	2777.7	2107.5	1861.5	1862.5	1908.4	1914.7
22.5°	6812.3	6502.7	5599.1	4429.7	3081.0	2023.1	1652.0	1581.1	1653.0	1740.6	1756.2
25°	6751.8	6380.8	5298.9	3880.4	2349.3	1555.1	1411.2	1408.1	1495.7	1587.4	1600.9
27.5°	6666.4	6221.3	4965.4	3290.5	1731.2	1321.6	1264.3	1286.2	1350.8	1417.5	1422.7
30°	6551.7	6035.8	4597.5	2668.2	1357.0	1176.7	1170.5	1190.3	1229.9	1276.8	1281.0
32.5°	6425.6	5847.2	4204.5	2065.8	1162.1	1098.6	1104.8	1114.2	1133.0	1151.7	1155.9
35°	6311.0	5654.3	3802.2	1569.7	1069.4	1047.5	1043.3	1041.2	1043.3	1037.1	1038.1
37.5°	6237.0	5494.9	3383.2	1249.7	1016.2	1002.7	990.2	974.5	956.8	946.4	948.5
40°	6209.9	5376.0	2959.0	1079.8	972.4	963.1	939.1	905.7	884.9	878.6	878.6
42.5°	6282.8	5314.6	2549.4	994.3	936.0	920.3	880.7	842.2	826.5	825.5	824.4
45°	6505.9	5339.6	2159.6	947.4	902.6	872.4	820.3	788.0	777.5	779.6	778.6
47.5°	6906.1	5497.0	1826.1	916.2	869.3	829.6	771.3	745.2	732.7	732.7	733.8
50°	7586.7	5864.9	1560.3	890.1	841.1	790.0	735.8	703.5	686.9	685.8	685.8
52.5°	8577.9	6523.6	1394.6	868.2	809.8	754.6	700.4	659.8	640.0	635.8	633.7
55°	9820.3	7467.9	1348.7	853.6	768.2	716.0	657.7	617.0	595.1	585.8	584.7
57.5°	11209.7	8616.5	1439.4	835.9	725.4	670.2	610.8	572.2	549.3	537.8	536.8
60°	12615.7	9870.3	1809.4	810.9	690.0	620.2	562.8	527.4	504.5	492.0	489.9
62.5°	14023.8	11191.9	2565.0	808.8	665.0	572.2	513.8	483.6	461.7	448.2	445.1
65°	15612.2	12638.6	3423.9	864.0	656.6	528.4	463.8	439.8	421.1	408.6	407.5
67.5°	17436.2	14271.9	3341.5	977.7	684.8	488.8	416.9	398.1	384.6	374.2	373.1
70°	18291.9	14016.5	2077.3	1057.9	724.4	450.3	372.1	358.5	348.1	340.8	337.7
71°	17933.4	13308.8	1741.6	1048.5	720.2	433.6	354.4	344.0	333.5	327.3	324.1
72.5°	16955.7	12137.3	1452.9	975.6	673.3	403.4	331.4	321.0	311.6	304.3	302.3
75°	15215.1	10839.6	1163.2	779.6	536.8	340.8	290.8	279.3	272.0	267.9	263.7
77.5°	11184.6	7735.8	899.5	616.0	395.0	278.3	248.1	239.7	232.4	226.2	223.0
80°	4284.8	2996.5	605.6	459.6	289.8	219.9	200.1	195.9	188.7	184.5	184.5
82.5°	1153.8	895.3	323.1	278.3	193.9	160.5	153.2	151.1	144.9	136.5	137.6
85°	466.9	395.0	181.4	153.2	118.8	94.8	103.2	104.2	96.9	86.5	87.6
87.5°	205.3	167.8	101.1	67.7	52.1	36.5	46.9	46.9	42.7	35.4	32.3
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)