

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: P321741

Luminaire Tested: **GAN-SA7D-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31029 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

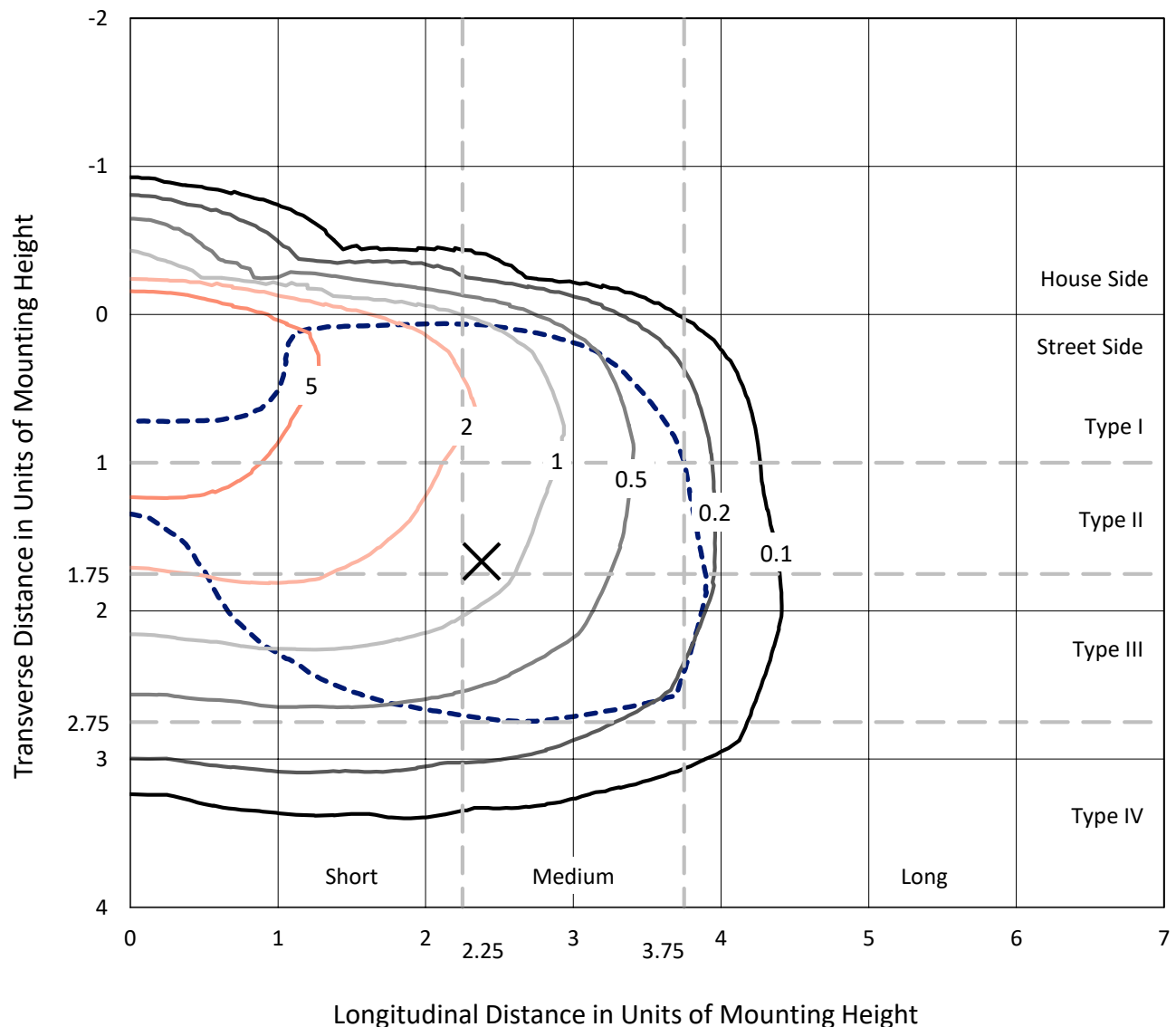
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

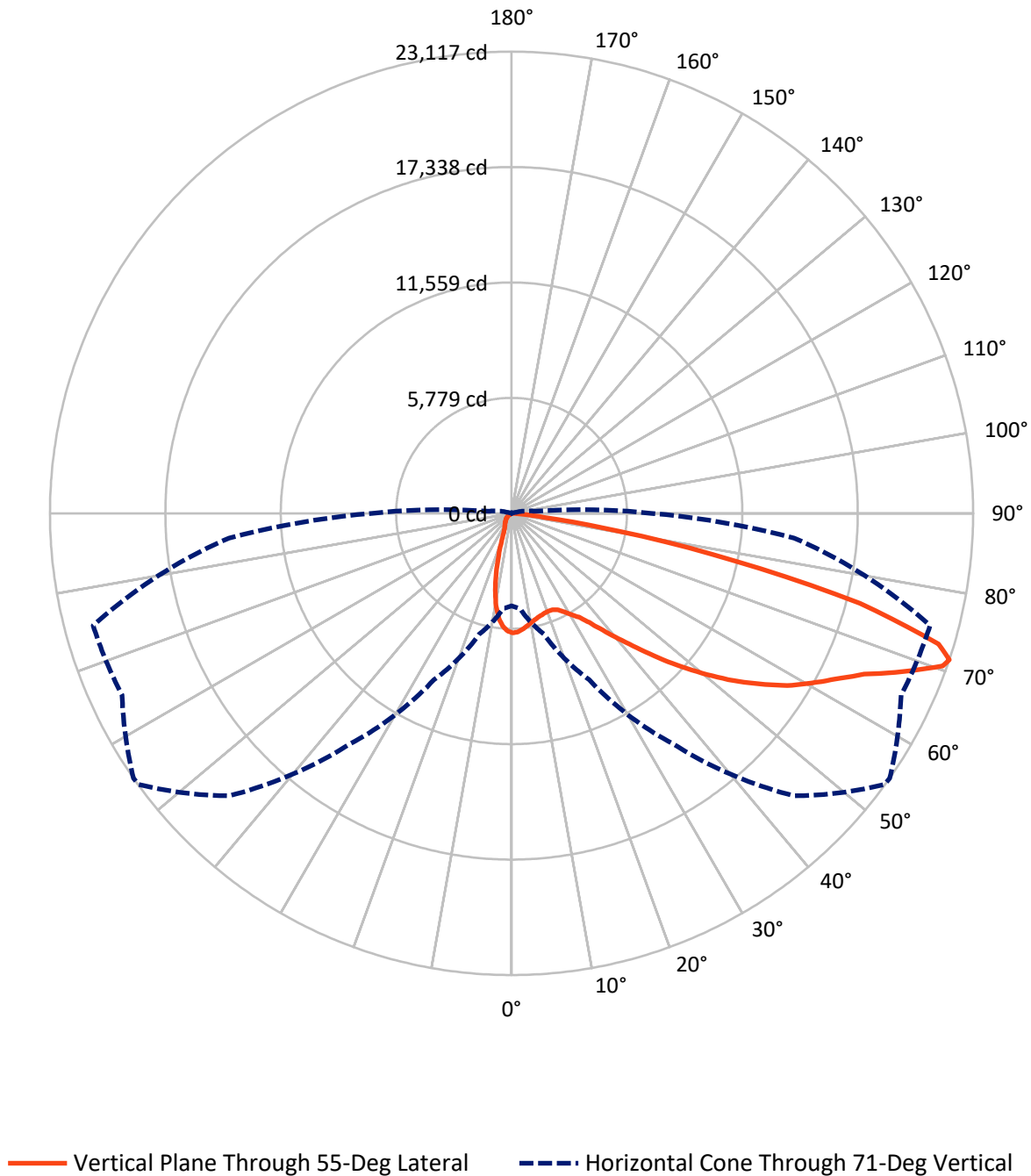
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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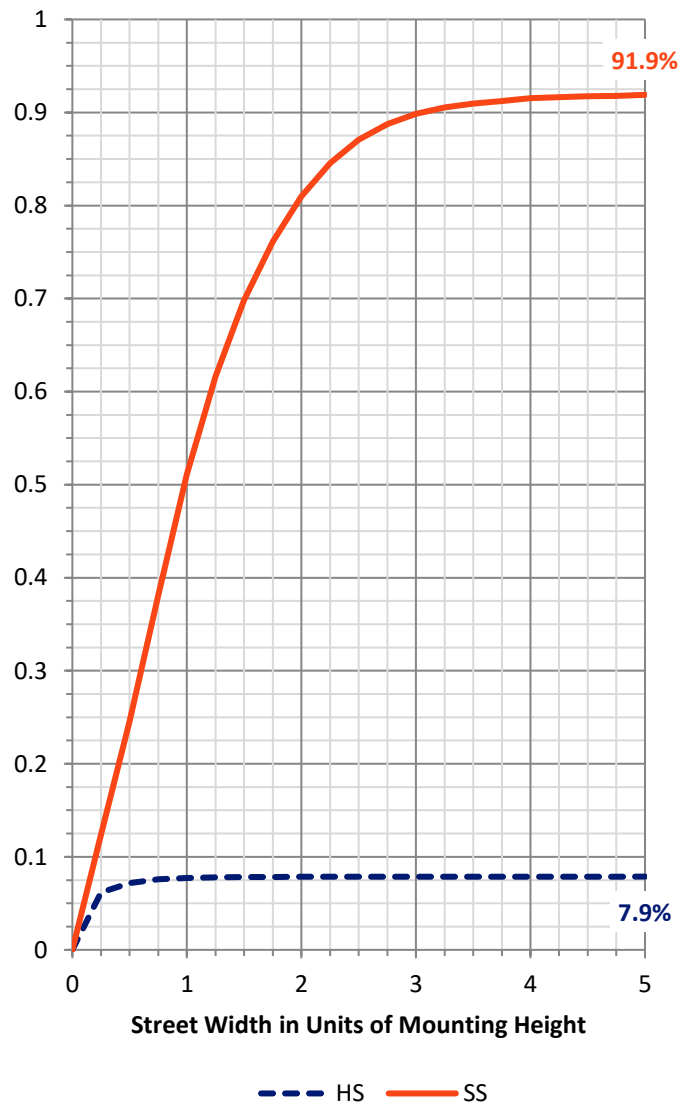
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2456.6	0.0	2456.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	28572.4	0.0	28572.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	31029.0	0.0	31029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.2	1.6
10°-20°	1151.9	3.7
20°-30°	1851.1	6.0
30°-40°	3145.1	10.1
40°-50°	4881.6	15.7
50°-60°	6563.1	21.2
60°-70°	8028.9	25.9
70°-80°	4694.3	15.1
80°-90°	202.9	0.7
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°	31029.0	100.0
0°-180°	31029.0	100.0

Coefficient of Utilization



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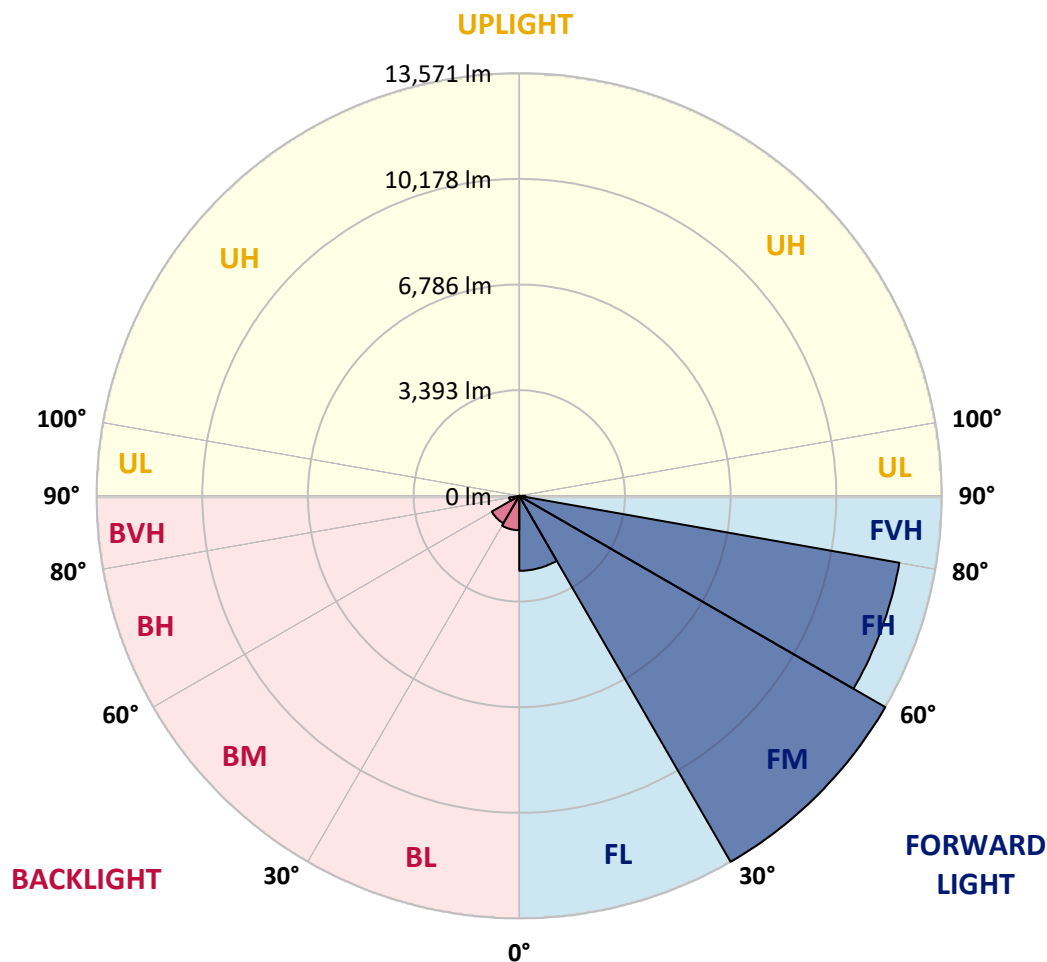
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2407.4	7.8			
FM	(30°-60°)	13571.2	43.7			
FH	(60°-80°)	12394.0	39.9			G5
FVH	(80°-90°)	199.7	0.6			G2/225
BL	(0°-30°)	1105.7	3.6	B3/2500		
BM	(30°-60°)	1018.6	3.3	B2/2500		
BH	(60°-80°)	329.1	1.1	B1/500		G1/500
BVH	(80°-90°)	3.2	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1
2.5°	5808.5	5815.5	5840.5	5851.7	5878.2	5922.8	5945.0	5946.4	5982.7	5996.6	6007.7
5°	5397.5	5439.3	5481.1	5525.7	5606.5	5713.8	5819.6	5829.4	5946.4	6032.8	6078.8
7.5°	5043.6	5081.2	5131.4	5202.4	5316.7	5485.3	5662.2	5683.1	5904.6	6101.1	6204.2
10°	4680.0	4710.6	4783.1	4887.6	5045.0	5270.7	5509.0	5543.8	5867.0	6193.0	6374.2
12.5°	4291.2	4309.4	4397.1	4547.6	4778.9	5065.9	5379.4	5425.4	5843.3	6298.9	6574.8
15°	3995.9	4004.2	4087.8	4243.9	4508.6	4882.0	5279.1	5334.8	5848.9	6425.7	6793.5
17.5°	3920.6	3924.8	3969.4	4076.7	4310.7	4717.6	5199.6	5267.9	5865.6	6549.7	7013.7
20°	4225.8	4196.5	4150.5	4133.8	4234.1	4618.7	5152.3	5228.9	5887.9	6659.8	7211.5
22.5°	5063.1	4976.7	4785.8	4530.9	4376.2	4625.6	5164.8	5241.4	5959.0	6794.9	7440.0
25°	6305.9	6186.1	5861.4	5359.9	4877.8	4826.3	5269.3	5347.3	6096.9	6956.5	7658.8
27.5°	7720.1	7601.6	7204.6	6488.4	5666.4	5223.3	5509.0	5581.4	6301.7	7100.1	7825.9
30°	9074.3	9040.9	8572.7	7759.1	6658.4	5867.0	5818.3	5879.6	6453.6	7186.4	7958.3
32.5°	10222.4	10169.4	9793.2	9001.9	7793.9	6640.3	6181.9	6200.0	6567.8	7297.9	8131.1
35°	11286.8	11221.3	10891.1	10142.9	8958.7	7584.9	6742.0	6715.5	6817.2	7522.2	8381.9
37.5°	12216.1	12276.0	11909.6	11197.6	10003.6	8567.2	7497.1	7417.7	7207.3	7887.2	8745.5
40°	12993.5	12993.5	12802.7	12209.1	11132.2	9582.8	8351.2	8246.7	7793.9	8450.1	9206.7
42.5°	13273.6	13333.5	13404.6	13068.8	12142.3	10638.9	9302.8	9194.1	8620.1	9248.5	9789.0
45°	13290.3	13385.1	13748.7	13747.3	13054.9	11688.1	10375.6	10324.1	9679.0	10273.9	10510.8
47.5°	13054.9	13173.3	13772.4	14112.3	13778.0	12664.7	11548.7	11484.6	10923.2	11530.6	11265.9
50°	12691.2	12822.2	13518.8	14255.8	14269.8	13514.6	12784.6	12688.4	12292.7	12967.1	12046.1
52.5°	12040.6	12294.1	13291.7	14289.3	14593.0	14248.9	13960.5	13918.7	13825.3	14350.6	12667.5
55°	10648.7	10930.1	12721.9	14300.4	14892.6	14899.5	15062.5	15073.7	15261.8	15643.5	13130.1
57.5°	9991.1	10149.9	11727.1	14353.4	15337.0	15638.0	16185.5	16271.9	16563.1	16871.0	13658.1
60°	9577.3	9765.4	11236.6	14280.9	16035.0	16606.3	17226.3	17255.5	17567.6	18137.5	14372.9
62.5°	9247.1	9432.4	10927.3	14002.3	16819.4	17771.0	18243.4	18246.1	18480.2	19646.4	15185.1
65°	8432.0	8588.1	10301.8	13688.8	17337.7	18923.3	19424.8	19406.7	19597.6	21237.5	16128.4
67.5°	7253.3	7373.1	9024.1	12500.3	17142.7	19971.0	21208.2	21148.3	20917.0	22612.6	16499.0
70°	5607.9	5651.1	7112.6	10417.4	15314.7	20373.6	22931.7	22901.0	21726.5	22366.0	15140.6
71°	4635.4	4777.5	6268.3	9194.1	14090.0	20001.6	23098.9	23117.0	21523.1	21694.5	14205.7
72.5°	2691.8	2813.0	4543.4	7061.0	11962.5	18449.6	22232.3	22363.2	20572.9	19732.7	12133.9
75°	576.8	617.2	1684.5	3417.7	6580.4	12930.9	17548.1	18014.9	16767.9	13424.1	7313.2
77.5°	401.3	433.3	721.7	1550.7	2174.9	6389.5	10900.9	11427.5	10017.5	5045.0	2340.7
80°	317.7	353.9	562.9	766.3	588.0	2060.6	5106.3	5428.1	3341.0	1125.8	394.3
82.5°	176.9	210.4	438.9	413.8	225.7	391.5	1429.5	1616.2	668.8	227.1	93.3
85°	51.6	62.7	282.8	300.9	96.1	75.2	243.8	302.3	126.8	59.9	41.8
87.5°	0.0	0.0	136.5	115.6	27.9	11.1	22.3	25.1	25.1	25.1	27.9
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°	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1	5984.1
2.5°	6007.7	6017.5	5982.7	5936.7	5887.9	5828.0	5765.3	5716.5	5715.2	5691.5	5667.8
5°	6081.6	6076.0	5979.9	5833.6	5660.8	5481.1	5309.7	5116.1	5052.0	4972.5	4946.1
7.5°	6218.1	6179.1	5975.7	5655.2	5276.3	4900.1	4511.4	4119.9	3952.7	3802.2	3775.7
10°	6389.5	6315.6	5949.2	5387.7	4692.5	3998.7	3412.1	2879.9	2645.8	2466.1	2457.7
12.5°	6567.8	6455.0	5875.4	4983.7	3927.6	2952.3	2276.6	1752.7	1557.7	1432.3	1443.4
15°	6754.5	6585.9	5716.5	4438.9	3056.8	2003.5	1398.8	1090.9	1012.9	980.9	989.2
17.5°	6945.4	6676.5	5495.0	3782.7	2197.2	1292.9	968.3	881.9	881.9	888.9	891.7
20°	7111.2	6725.3	5169.0	3047.1	1489.4	941.8	847.1	834.6	841.5	852.7	854.1
22.5°	7275.6	6728.1	4744.1	2301.7	1042.2	824.8	806.7	801.1	805.3	817.8	819.2
25°	7409.4	6694.6	4211.8	1637.1	831.8	777.4	769.1	766.3	769.1	784.4	784.4
27.5°	7463.7	6573.4	3562.6	1150.8	745.4	724.5	721.7	724.5	728.7	739.8	741.2
30°	7469.3	6361.6	2854.8	833.2	675.7	653.4	659.0	668.8	664.6	661.8	664.6
32.5°	7483.2	6116.4	2165.1	685.5	617.2	582.4	575.4	575.4	558.7	548.9	543.4
35°	7529.2	5828.0	1570.2	615.8	557.3	516.9	490.4	459.8	427.7	411.0	406.8
37.5°	7601.6	5525.7	1124.4	569.8	504.4	458.4	408.2	353.9	307.9	295.4	295.4
40°	7734.0	5213.6	831.8	533.6	462.6	405.4	330.2	259.1	217.3	210.4	210.4
42.5°	7943.0	4884.8	663.2	501.6	426.3	351.1	252.2	188.1	157.4	153.3	151.9
45°	8160.3	4522.5	579.6	470.9	387.3	288.4	186.7	139.3	121.2	117.0	117.0
47.5°	8377.7	4136.6	539.2	441.7	349.7	224.3	139.3	110.1	101.7	101.7	103.1
50°	8561.6	3733.9	509.9	409.6	300.9	170.0	110.1	93.3	90.6	96.1	97.5
52.5°	8607.6	3338.3	473.7	369.2	241.0	129.6	90.6	82.2	82.2	82.2	82.2
55°	8579.7	3031.7	426.3	319.1	178.3	103.1	78.0	72.4	71.1	71.1	71.1
57.5°	8674.4	2850.6	341.3	248.0	128.2	83.6	68.3	64.1	61.3	59.9	59.9
60°	8865.3	2732.2	243.8	178.3	96.1	69.7	58.5	54.3	50.2	47.4	47.4
62.5°	9118.9	2629.1	181.1	132.4	73.8	55.7	48.8	44.6	39.0	36.2	36.2
65°	9313.9	2445.2	137.9	98.9	55.7	44.6	37.6	36.2	27.9	25.1	23.7
67.5°	9015.8	2041.1	111.5	72.4	41.8	34.8	29.3	27.9	16.7	13.9	13.9
70°	7732.6	1421.1	89.2	52.9	30.7	27.9	23.7	18.1	12.5	11.1	11.1
71°	7012.3	1187.1	80.8	44.6	26.5	26.5	22.3	15.3	11.1	9.8	9.8
72.5°	5825.2	842.9	68.3	34.8	23.7	27.9	23.7	13.9	11.1	9.8	8.4
75°	3381.4	352.5	47.4	23.7	18.1	33.4	30.7	12.5	8.4	7.0	7.0
77.5°	1017.1	129.6	26.5	15.3	13.9	29.3	34.8	11.1	4.2	1.4	1.4
80°	185.3	55.7	16.7	9.8	9.8	18.1	26.5	5.6	0.0	0.0	0.0
82.5°	65.5	27.9	9.8	5.6	4.2	8.4	12.5	0.0	0.0	0.0	0.0
85°	37.6	19.5	5.6	2.8	0.0	1.4	2.8	0.0	0.0	0.0	0.0
87.5°	25.1	5.6	0.0	0.0	0.0	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)