

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: P318330

Luminaire Tested: **GAN-SA6C-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35386 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

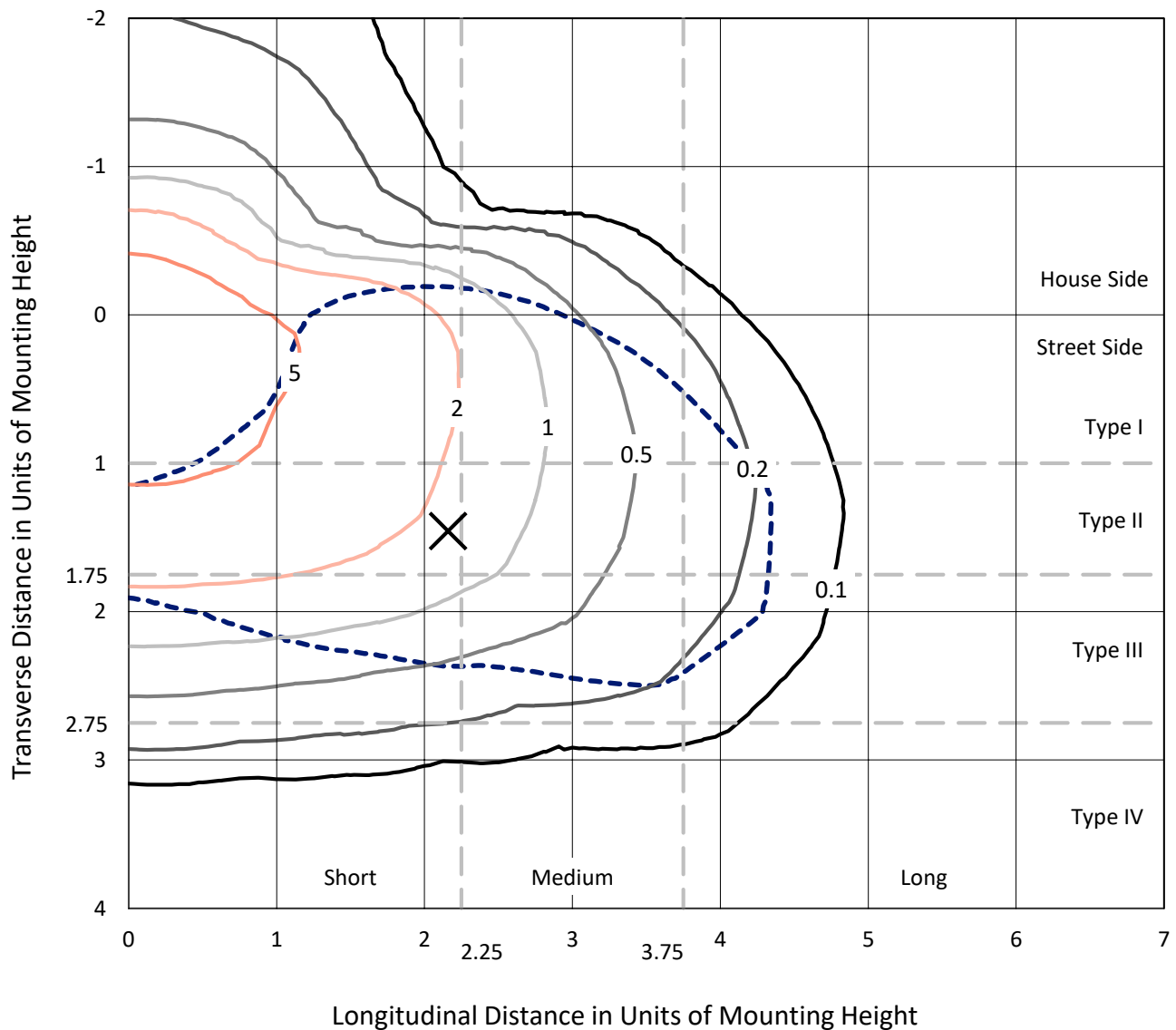
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

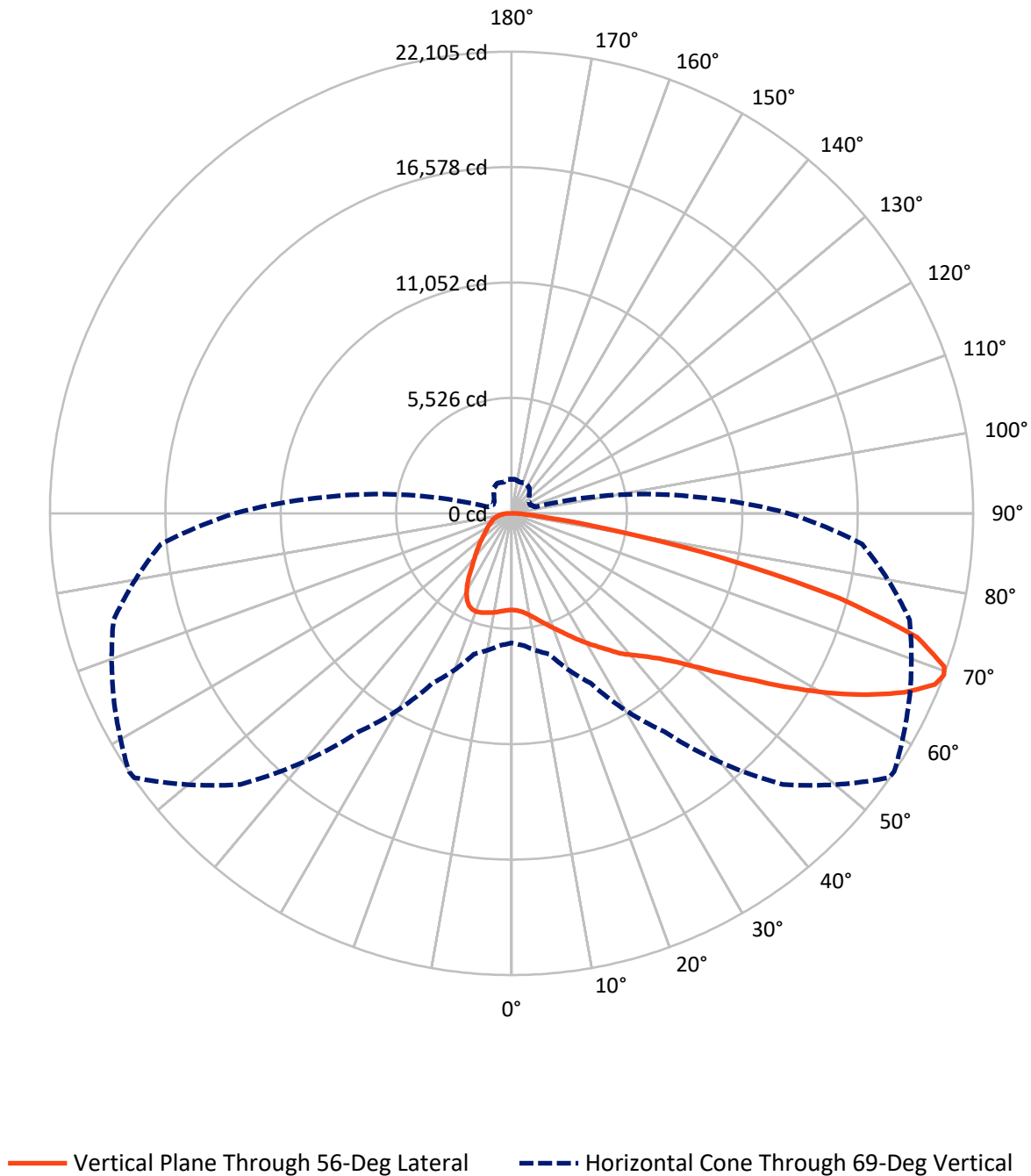
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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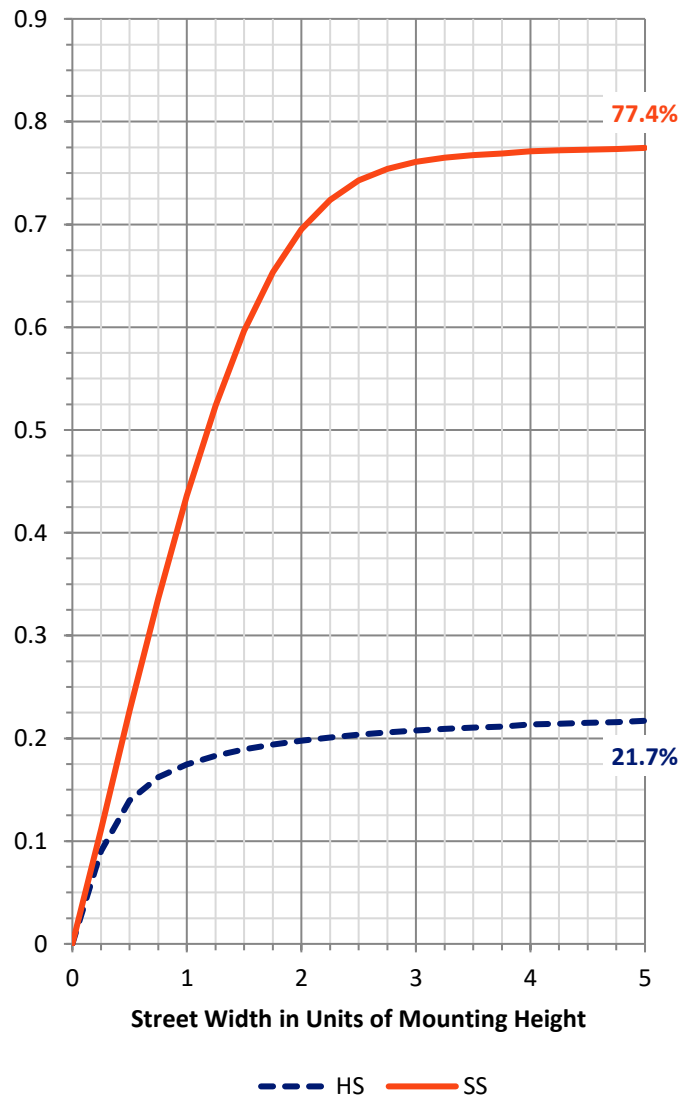
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7880.4	0.0	7880.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	27505.6	0.0	27505.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	35386.0	0.0	35386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.4	1.3
10°-20°	1461.1	4.1
20°-30°	2550.4	7.2
30°-40°	3663.6	10.4
40°-50°	5070.3	14.3
50°-60°	7428.6	21.0
60°-70°	9056.9	25.6
70°-80°	5007.2	14.2
80°-90°	693.5	2.0
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°	35386.0	100.0
0°-180°	35386.0	100.0

Coefficient of Utilization



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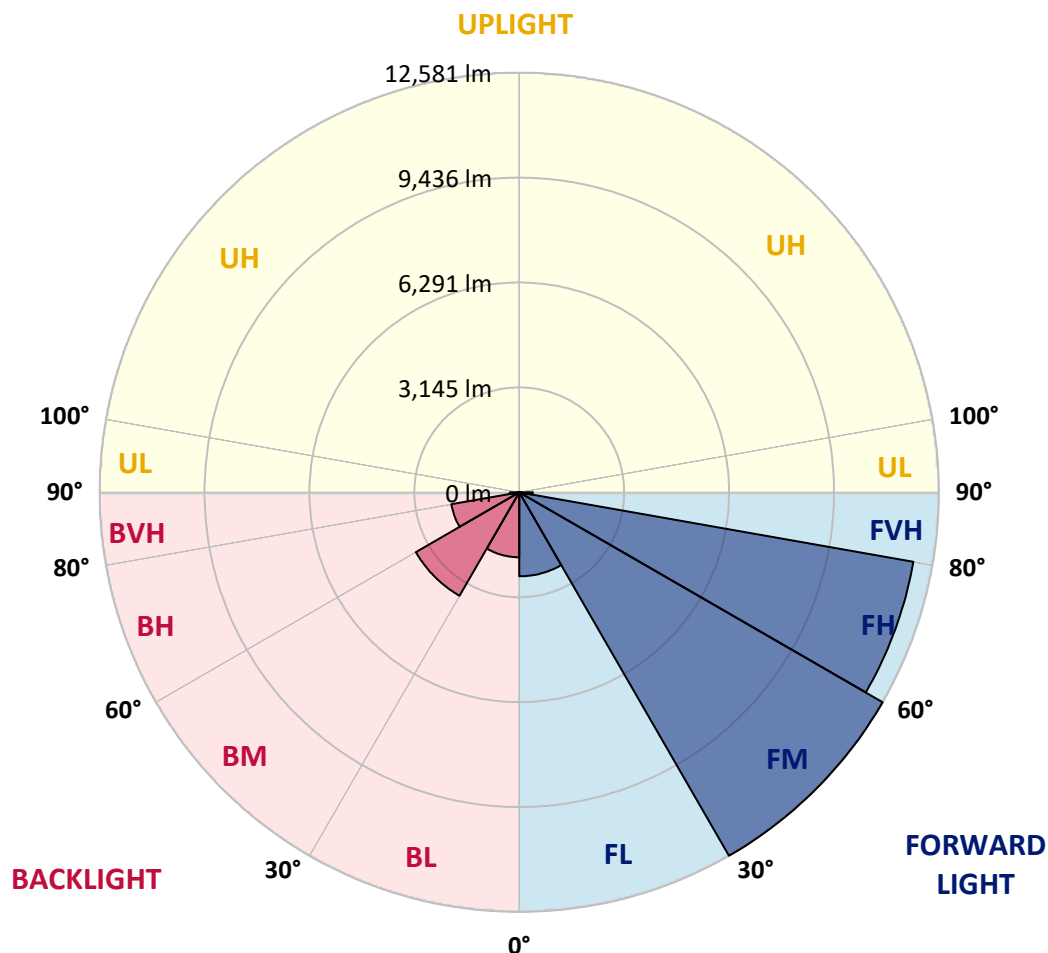
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2518.4	7.1			
FM	(30°-60°)	12581.0	35.6			
FH	(60°-80°)	11997.6	33.9			G4/12000
FVH	(80°-90°)	408.5	1.2			G3/500
BL	(0°-30°)	1947.4	5.5	B3/2500		
BM	(30°-60°)	3581.5	10.1	B3/5000		
BH	(60°-80°)	2066.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	285.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2
2.5°	4655.4	4660.3	4656.7	4666.4	4655.4	4662.8	4656.7	4656.7	4653.0	4642.0	4629.8
5°	4728.6	4738.3	4732.2	4742.0	4728.6	4731.0	4720.1	4720.1	4709.1	4685.9	4661.5
7.5°	4843.2	4854.1	4849.3	4859.0	4840.7	4840.7	4826.1	4824.9	4802.9	4765.2	4737.1
10°	4979.7	4994.3	4989.5	5004.1	4989.5	4994.3	4979.7	4979.7	4950.4	4896.8	4861.5
12.5°	5178.4	5196.7	5183.3	5182.1	5176.0	5185.7	5173.5	5171.1	5144.3	5071.1	5022.4
15°	5444.2	5463.7	5435.6	5433.2	5399.0	5395.4	5395.4	5391.7	5374.7	5286.9	5206.4
17.5°	5750.1	5756.2	5731.8	5692.8	5648.9	5620.9	5617.3	5627.0	5627.0	5524.6	5396.6
20°	6050.0	6061.0	6041.5	5997.6	5941.5	5900.1	5870.8	5890.3	5889.1	5767.2	5585.6
22.5°	6376.7	6402.3	6373.0	6317.0	6251.1	6204.8	6153.6	6170.7	6171.9	6022.0	5770.8
25°	6799.7	6776.5	6758.3	6679.0	6585.2	6537.6	6490.1	6507.1	6502.3	6296.2	5962.2
27.5°	7173.9	7178.8	7154.4	7070.3	6961.8	6857.0	6854.6	6865.5	6847.2	6581.5	6142.6
30°	7609.1	7611.6	7577.4	7501.9	7383.6	7248.3	7216.6	7234.9	7195.9	6852.1	6332.8
32.5°	8041.9	8054.1	8016.3	7924.9	7829.8	7665.2	7601.8	7614.0	7516.5	7128.8	6529.1
35°	8421.0	8438.1	8425.9	8364.9	8261.3	8119.9	8044.3	8037.0	7916.3	7467.7	6788.7
37.5°	8807.4	8823.3	8809.9	8758.7	8717.2	8567.3	8527.1	8527.1	8317.4	7813.9	7119.1
40°	9204.8	9229.2	9213.4	9142.7	9107.3	9039.0	8942.7	8919.6	8692.8	8229.6	7657.9
42.5°	9574.2	9605.9	9669.3	9627.8	9555.9	9565.7	9371.8	9359.6	9193.9	8844.0	8334.5
45°	10098.4	10144.7	10252.0	10220.3	10205.6	10152.0	9921.6	9910.6	9847.3	9670.5	9174.4
47.5°	10670.1	10733.5	10927.3	10933.4	11090.7	10989.5	10676.2	10638.4	10653.0	10660.3	10199.6
50°	11196.7	11266.2	11584.4	11734.3	12104.9	12126.8	11625.8	11591.7	11649.0	11817.2	11394.2
52.5°	11617.3	11705.0	12102.4	12565.7	13200.8	13381.2	12794.9	12769.3	12811.9	13102.0	12744.9
55°	11925.7	12020.8	12453.5	13297.1	14311.3	14629.5	14140.7	14116.3	14143.1	14512.5	14213.8
57.5°	11997.6	12020.8	12648.6	13789.6	15248.7	16013.1	15787.5	15738.8	15607.1	15929.0	15835.1
60°	11659.9	11752.6	12487.7	13962.7	15974.1	17377.2	17508.8	17447.9	17078.5	17341.8	17266.2
62.5°	10974.9	11140.6	11886.7	13699.4	16258.1	18491.3	19197.2	19124.0	18487.7	18658.3	18295.1
65°	9855.8	9926.5	10710.3	12791.2	15897.3	19204.5	20702.6	20666.1	19865.2	19598.2	18485.2
67.5°	7854.2	7987.0	8652.6	10893.2	14421.0	19120.4	21866.8	21863.2	20764.8	19946.8	17811.1
69°	6204.8	6342.6	6976.5	8973.2	12760.7	18351.2	22061.9	22104.5	21018.4	19734.7	16848.1
70°	4946.8	5106.5	5541.7	7557.9	11286.9	17336.9	21899.7	21976.5	20969.6	19384.9	15959.4
72.5°	2105.3	2234.5	2544.1	3896.0	6878.9	12946.0	20023.6	20313.8	19839.6	17741.6	13189.8
75°	919.1	959.4	1099.6	1588.4	3053.6	7045.9	15686.4	16222.7	16963.9	14996.4	9825.3
77.5°	672.9	690.0	766.8	932.6	1370.2	2661.1	10087.4	10399.5	12234.1	10912.7	6026.8
80°	520.5	532.7	592.4	685.1	894.8	1076.4	4600.6	4868.8	6878.9	5605.1	2510.0
82.5°	414.5	423.0	464.4	504.7	618.0	652.2	1527.4	1694.4	2539.2	1548.2	664.4
85°	385.2	395.0	409.6	368.1	396.2	382.8	660.7	691.2	766.8	608.3	277.9
87.5°	174.3	206.0	405.9	286.5	210.9	168.2	270.6	282.8	318.2	319.4	123.1
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°	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2
2.5°	4637.2	4633.5	4639.6	4625.0	4643.3	4642.0	4635.9	4638.4	4650.6	4649.3	4650.6
5°	4665.2	4662.8	4670.1	4659.1	4681.0	4688.4	4689.6	4700.5	4714.0	4717.6	4717.6
7.5°	4735.9	4735.9	4739.6	4724.9	4739.6	4738.3	4732.2	4743.2	4756.6	4757.8	4756.6
10°	4857.8	4859.0	4852.9	4815.1	4802.9	4770.0	4739.6	4740.8	4757.8	4771.3	4774.9
12.5°	5011.4	5006.5	4979.7	4910.2	4859.0	4792.0	4760.3	4759.1	4776.1	4787.1	4790.8
15°	5186.9	5173.5	5104.0	4990.7	4900.5	4834.6	4783.4	4771.3	4761.5	4749.3	4750.5
17.5°	5352.7	5322.2	5206.4	5049.2	4954.1	4866.3	4767.6	4688.4	4633.5	4601.8	4592.1
20°	5520.9	5461.2	5294.2	5104.0	4983.4	4823.7	4633.5	4472.6	4372.6	4326.3	4317.8
22.5°	5674.5	5578.2	5375.9	5161.3	4960.2	4679.8	4381.2	4147.1	4008.1	3946.0	3950.8
25°	5824.5	5690.4	5461.2	5201.6	4843.2	4426.3	4030.1	3742.4	3581.5	3512.0	3509.6
27.5°	5956.1	5803.8	5553.9	5168.7	4625.0	4065.4	3614.4	3334.0	3199.9	3140.2	3130.4
30°	6107.3	5946.4	5677.0	5043.1	4305.6	3648.5	3208.5	3011.0	2915.9	2856.2	2845.2
32.5°	6291.4	6140.2	5778.2	4815.1	3897.2	3213.3	2891.5	2753.8	2667.2	2600.2	2588.0
35°	6559.6	6396.2	5803.8	4488.4	3448.6	2869.6	2658.7	2517.3	2400.3	2313.7	2305.2
37.5°	6896.0	6716.8	5745.2	4065.4	3013.4	2646.5	2464.9	2290.5	2138.2	2016.3	1996.8
40°	7381.2	7110.6	5583.1	3577.8	2692.8	2474.6	2275.9	2077.2	1888.3	1745.6	1717.6
42.5°	7963.9	7572.6	5334.4	3092.7	2457.5	2300.3	2088.2	1841.9	1661.5	1560.3	1545.7
45°	8705.0	8052.9	4989.5	2668.4	2225.9	2126.0	1885.8	1659.1	1546.9	1472.6	1460.4
47.5°	9551.0	8591.7	4627.4	2323.5	2029.7	1962.6	1723.7	1577.4	1488.4	1429.9	1418.9
50°	10590.9	9200.0	4243.4	2040.6	1832.2	1766.4	1646.9	1532.3	1461.6	1416.5	1405.5
52.5°	11763.6	9886.3	3966.7	1817.6	1668.8	1621.3	1606.7	1507.9	1450.6	1416.5	1405.5
55°	13026.5	10584.8	3668.0	1629.8	1527.4	1540.8	1579.9	1510.4	1471.4	1429.9	1414.1
57.5°	14290.6	11306.4	3335.2	1471.4	1415.3	1481.1	1561.6	1515.2	1482.3	1442.1	1427.5
60°	15290.2	11763.6	2819.6	1338.5	1326.3	1415.3	1517.7	1478.7	1436.0	1437.2	1434.8
62.5°	15757.1	11739.2	2250.3	1220.2	1237.3	1326.3	1447.0	1421.4	1386.0	1433.6	1437.2
65°	15495.0	11154.0	1751.7	1113.0	1142.2	1233.6	1373.8	1393.3	1405.5	1497.0	1509.1
67.5°	14395.4	10015.5	1356.8	1019.1	1055.7	1170.3	1381.2	1517.7	1533.5	1629.8	1628.6
69°	13258.1	8947.6	1178.8	970.3	1013.0	1186.1	1476.2	1596.9	1537.2	1639.6	1625.0
70°	12304.8	8102.8	1083.7	937.4	993.5	1214.1	1539.6	1595.7	1518.9	1606.7	1582.3
72.5°	9476.7	5829.4	919.1	876.5	927.7	1161.7	1557.9	1560.3	1476.2	1493.3	1451.9
75°	6499.8	3683.9	802.1	793.6	827.7	1047.1	1499.4	1490.9	1365.3	1340.9	1306.8
77.5°	3583.9	1871.2	681.4	714.3	737.5	927.7	1362.9	1350.7	1247.1	1195.9	1183.7
80°	1382.4	819.2	575.4	635.1	649.7	803.3	1194.6	1183.7	1097.1	1031.3	1013.0
82.5°	521.7	429.1	475.4	549.8	544.9	663.1	1011.8	1005.7	921.6	825.3	796.0
85°	241.4	257.2	376.7	453.5	418.1	491.3	809.4	820.4	718.0	603.4	603.4
87.5°	102.4	143.8	267.0	342.5	281.6	331.6	593.7	566.8	520.5	360.8	338.9
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)