

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: P318531

Luminaire Tested: **GAN-SA7C-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318531
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-SA7C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 36785 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

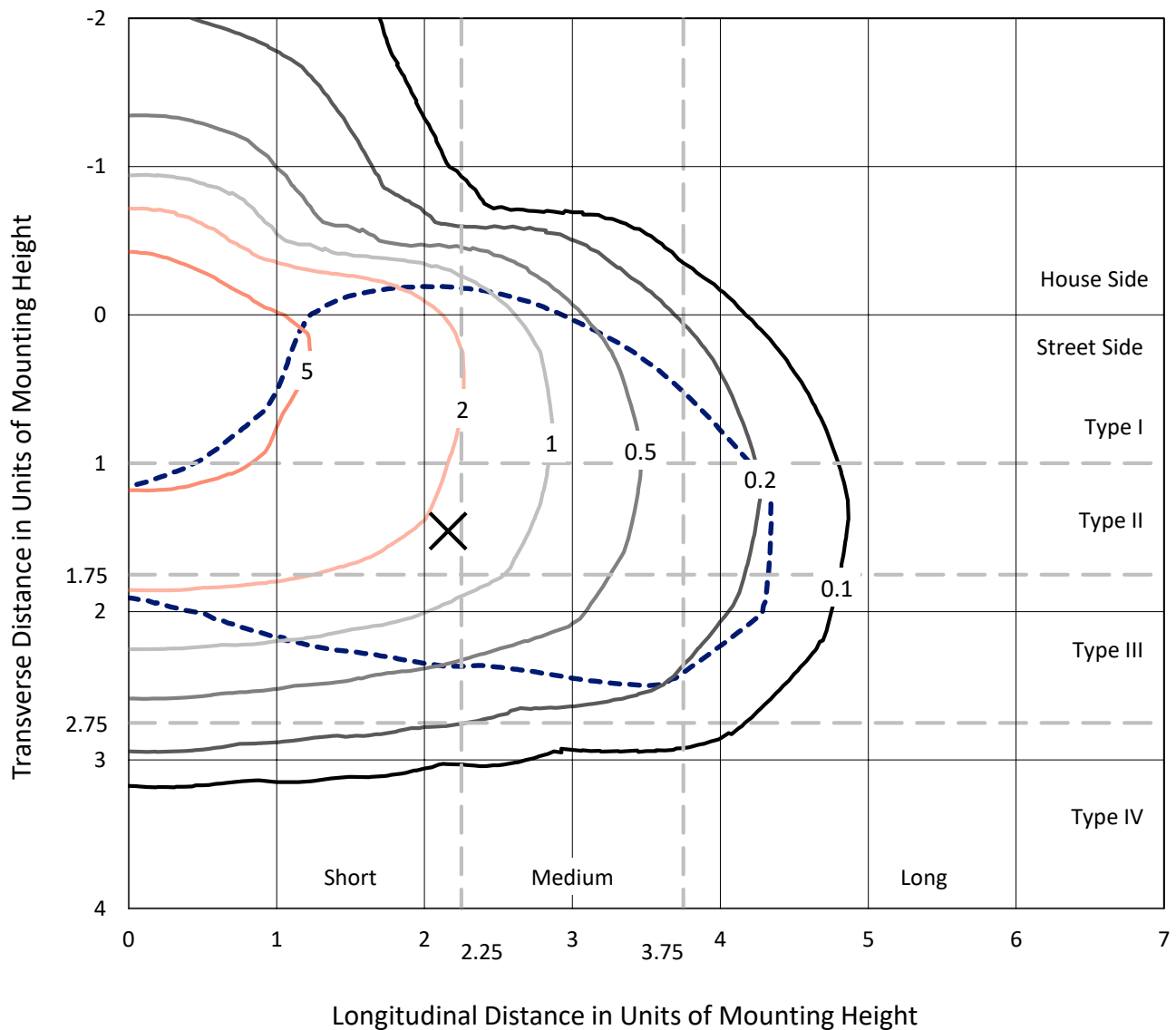
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

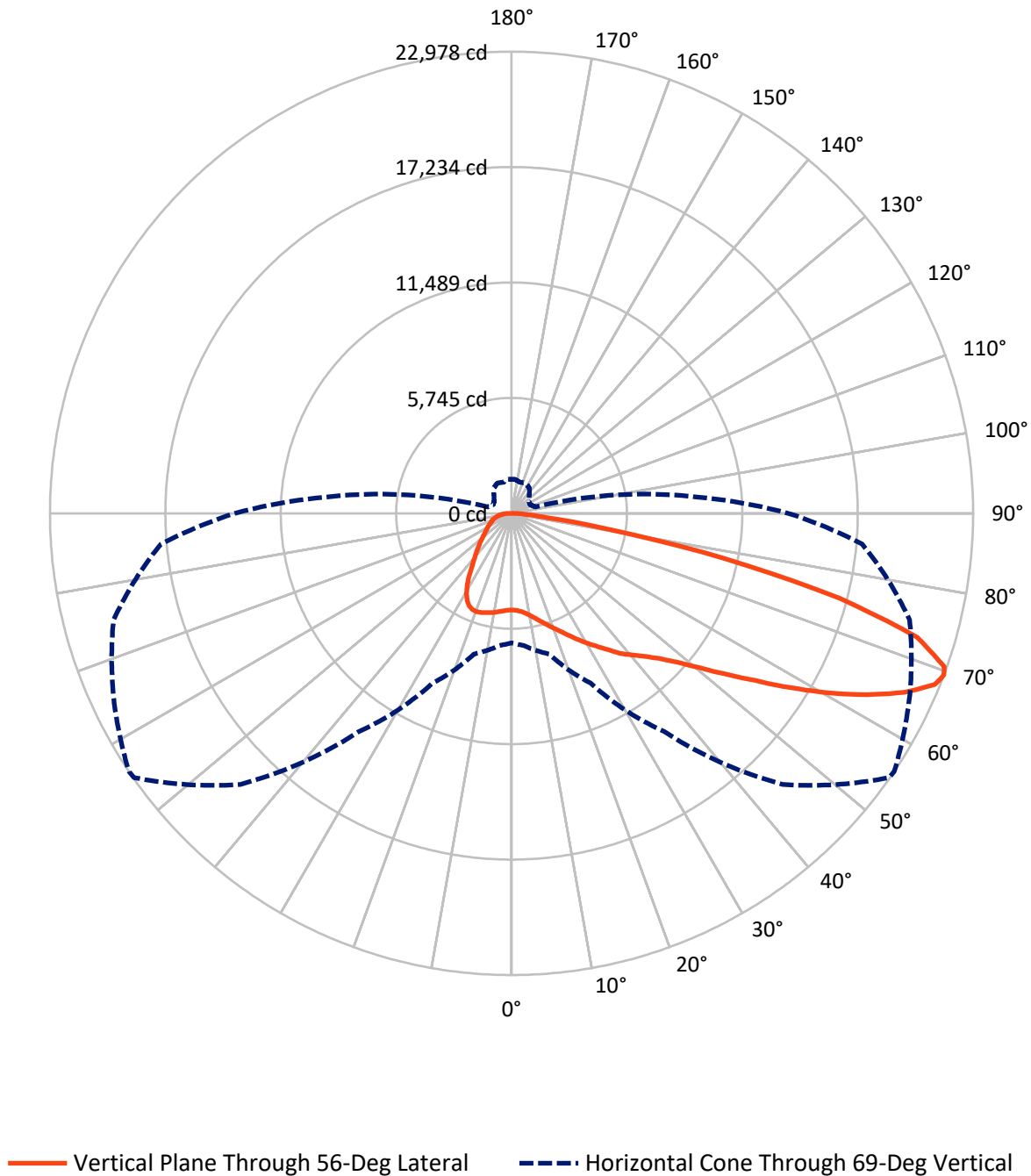
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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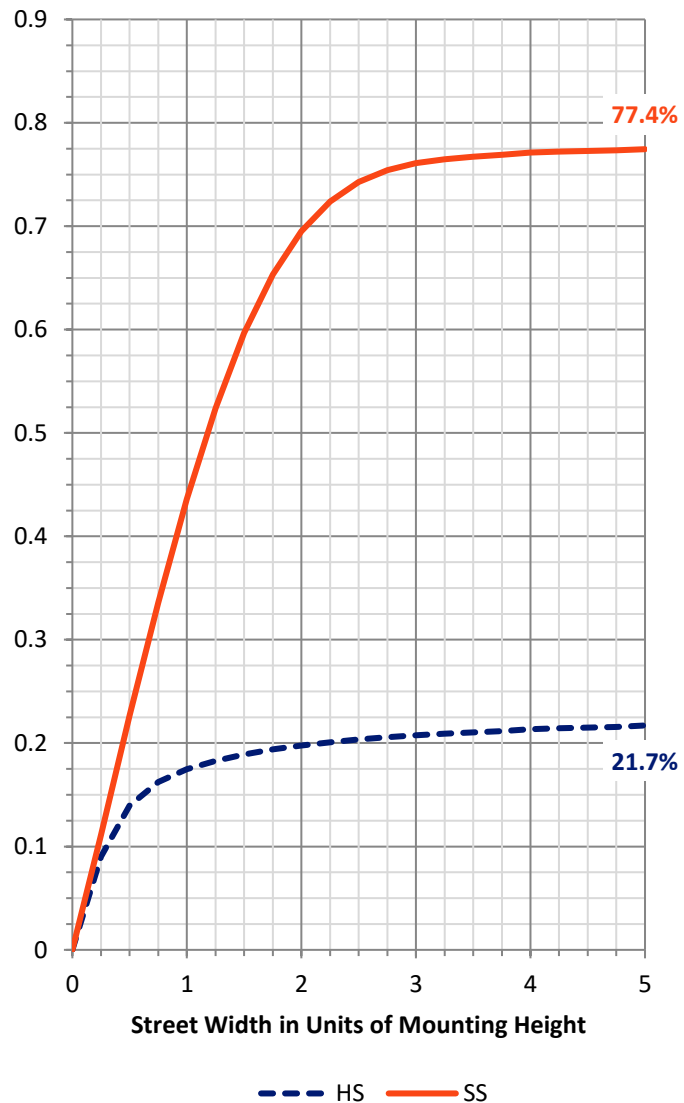
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8191.9	0.0	8191.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	28593.1	0.0	28593.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	36785.0	0.0	36785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.3	1.3
10°-20°	1518.8	4.1
20°-30°	2651.3	7.2
30°-40°	3808.5	10.4
40°-50°	5270.7	14.3
50°-60°	7722.3	21.0
60°-70°	9415.0	25.6
70°-80°	5205.2	14.2
80°-90°	720.9	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°	36785.0	100.0
0°-180°	36785.0	100.0

Coefficient of Utilization



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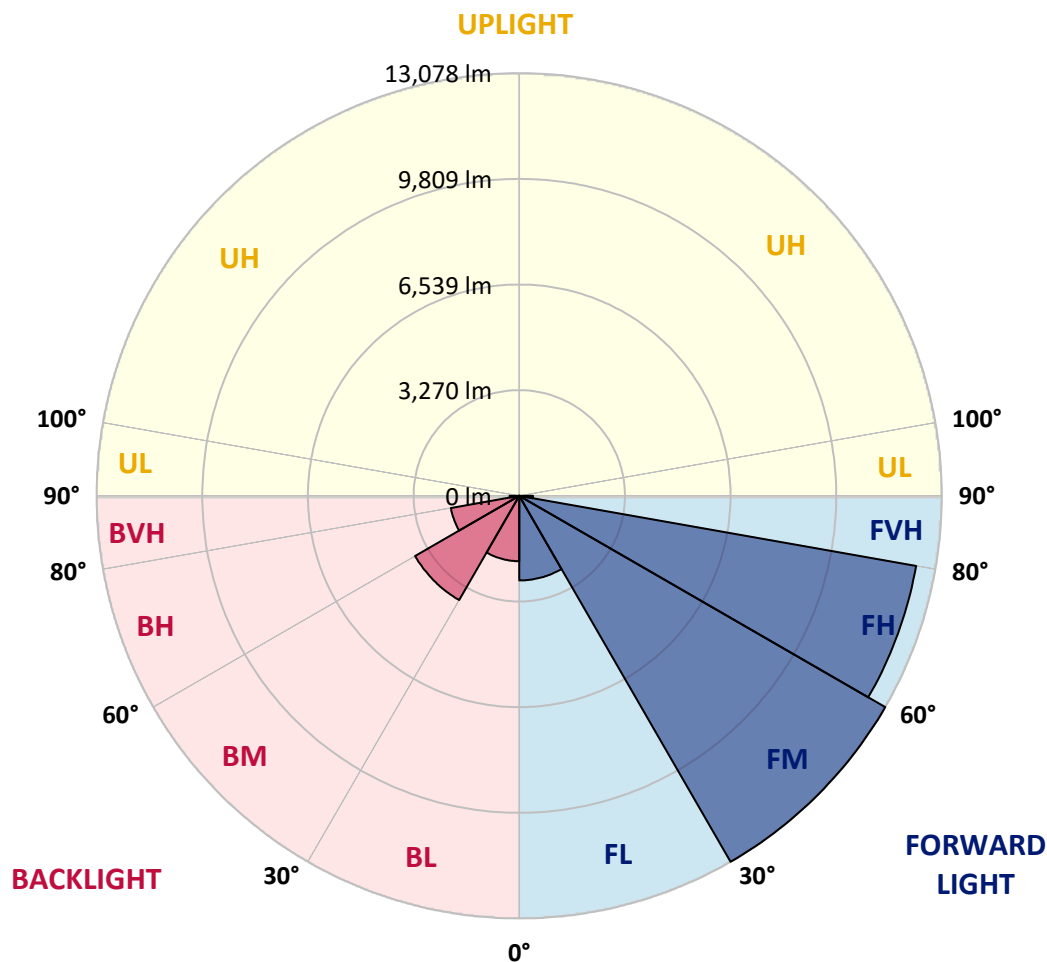
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2618.0	7.1			
FM	(30°-60°)	13078.4	35.6			
FH	(60°-80°)	12472.0	33.9			G5
FVH	(80°-90°)	424.6	1.2			G3/500
BL	(0°-30°)	2024.4	5.5	B3/2500		
BM	(30°-60°)	3723.1	10.1	B3/5000		
BH	(60°-80°)	2148.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	296.3	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1
2.5°	4839.5	4844.6	4840.8	4850.9	4839.5	4847.1	4840.8	4840.8	4837.0	4825.6	4812.9
5°	4915.5	4925.7	4919.3	4929.5	4915.5	4918.1	4906.7	4906.7	4895.3	4871.2	4845.8
7.5°	5034.6	5046.1	5041.0	5051.1	5032.1	5032.1	5016.9	5015.6	4992.8	4953.5	4924.4
10°	5176.6	5191.8	5186.7	5201.9	5186.7	5191.8	5176.6	5176.6	5146.2	5090.4	5053.7
12.5°	5383.1	5402.1	5388.2	5386.9	5380.6	5390.7	5378.1	5375.5	5347.7	5271.6	5220.9
15°	5659.4	5679.7	5650.5	5648.0	5612.5	5608.7	5608.7	5604.9	5587.2	5495.9	5412.3
17.5°	5977.5	5983.8	5958.5	5917.9	5872.3	5843.1	5839.3	5849.5	5849.5	5743.0	5610.0
20°	6289.2	6300.6	6280.3	6234.7	6176.4	6133.3	6102.9	6123.2	6121.9	5995.2	5806.4
22.5°	6628.8	6655.4	6625.0	6566.7	6498.3	6450.1	6396.9	6414.6	6415.9	6260.0	5999.0
25°	7068.5	7044.5	7025.4	6943.1	6845.5	6796.1	6746.7	6764.4	6759.3	6545.2	6198.0
27.5°	7457.6	7462.6	7437.3	7349.9	7237.1	7128.1	7125.6	7137.0	7118.0	6841.7	6385.5
30°	7910.0	7912.5	7877.0	7798.4	7675.5	7534.9	7501.9	7520.9	7480.4	7123.0	6583.2
32.5°	8359.8	8372.5	8333.2	8238.2	8139.3	7968.3	7902.4	7915.0	7813.7	7410.7	6787.2
35°	8753.9	8771.7	8759.0	8695.6	8587.9	8440.9	8362.4	8354.8	8229.3	7763.0	7057.1
37.5°	9155.6	9172.1	9158.2	9104.9	9061.9	8906.0	8864.2	8864.2	8646.2	8122.9	7400.5
40°	9568.7	9594.1	9577.6	9504.1	9467.4	9396.4	9296.3	9272.2	9036.5	8555.0	7960.7
42.5°	9952.7	9985.7	10051.6	10008.5	9933.7	9943.8	9742.4	9729.7	9557.3	9193.7	8664.0
45°	10497.6	10545.8	10657.3	10624.3	10609.1	10553.4	10313.9	10302.5	10236.6	10052.8	9537.1
47.5°	11091.9	11157.8	11359.3	11365.7	11529.1	11424.0	11098.3	11059.0	11074.2	11081.8	10602.8
50°	11639.4	11711.6	12042.4	12198.2	12583.5	12606.3	12085.4	12050.0	12109.5	12284.4	11844.7
52.5°	12076.6	12167.8	12580.9	13062.5	13722.7	13910.2	13300.7	13274.1	13318.4	13620.0	13248.7
55°	12397.2	12496.0	12945.9	13822.8	14877.1	15207.9	14699.7	14674.4	14702.2	15086.2	14775.7
57.5°	12471.9	12496.0	13148.6	14334.7	15851.6	16646.2	16411.7	16361.0	16224.2	16558.7	16461.1
60°	12120.9	12217.2	12981.4	14514.7	16605.6	18064.2	18201.0	18137.7	17753.7	18027.4	17948.8
62.5°	11408.7	11581.1	12356.6	14241.0	16900.9	19222.4	19956.1	19880.1	19218.6	19396.0	19018.4
65°	10245.4	10318.9	11133.8	13296.9	16525.8	19963.7	21521.1	21483.1	20650.6	20373.0	19216.1
67.5°	8164.7	8302.8	8994.7	11323.8	14991.2	19876.3	22731.3	22727.5	21585.8	20735.5	18515.3
69°	6450.1	6593.3	7252.3	9328.0	13265.2	19076.7	22934.1	22978.4	21849.3	20515.0	17514.2
70°	5142.4	5308.4	5760.8	7856.7	11733.2	18022.3	22765.5	22845.4	21798.7	20151.3	16590.4
72.5°	2188.5	2322.8	2644.7	4050.0	7150.9	13457.8	20815.3	21116.9	20623.9	18443.1	13711.3
75°	955.5	997.3	1143.0	1651.2	3174.4	7324.5	16306.5	16864.1	17634.6	15589.3	10213.8
77.5°	699.5	717.2	797.1	969.4	1424.4	2766.3	10486.2	10810.6	12717.8	11344.1	6265.1
80°	541.1	553.8	615.9	712.2	930.1	1119.0	4782.5	5061.3	7150.9	5826.7	2609.2
82.5°	430.9	439.7	482.8	524.6	642.5	678.0	1587.8	1761.4	2639.6	1609.4	690.6
85°	400.4	410.6	425.8	382.7	411.8	397.9	686.8	718.5	797.1	632.3	288.9
87.5°	181.2	214.2	422.0	297.8	219.2	174.9	281.3	294.0	330.7	332.0	128.0
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°	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1
2.5°	4820.5	4816.7	4823.0	4807.8	4826.8	4825.6	4819.2	4821.8	4834.4	4833.2	4834.4
5°	4849.6	4847.1	4854.7	4843.3	4866.1	4873.7	4875.0	4886.4	4900.3	4904.1	4904.1
7.5°	4923.1	4923.1	4926.9	4911.7	4926.9	4925.7	4919.3	4930.7	4944.7	4945.9	4944.7
10°	5049.9	5051.1	5044.8	5005.5	4992.8	4958.6	4926.9	4928.2	4945.9	4959.9	4963.7
12.5°	5209.5	5204.5	5176.6	5104.3	5051.1	4981.4	4948.5	4947.2	4965.0	4976.4	4980.2
15°	5392.0	5378.1	5305.8	5188.0	5094.2	5025.8	4972.6	4959.9	4949.7	4937.1	4938.3
17.5°	5564.3	5532.7	5412.3	5248.8	5150.0	5058.7	4956.1	4873.7	4816.7	4783.7	4773.6
20°	5739.2	5677.1	5503.5	5305.8	5180.4	5014.4	4816.7	4649.4	4545.5	4497.3	4488.5
22.5°	5898.9	5798.8	5588.4	5365.4	5156.3	4864.8	4554.4	4311.1	4166.6	4102.0	4107.0
25°	6054.8	5915.4	5677.1	5407.2	5034.6	4601.3	4189.4	3890.4	3723.1	3650.8	3648.3
27.5°	6191.6	6033.2	5773.4	5373.0	4807.8	4226.2	3757.3	3465.8	3326.4	3264.3	3254.2
30°	6348.8	6181.5	5901.4	5242.5	4475.8	3792.8	3335.3	3130.0	3031.2	2969.1	2957.7
32.5°	6540.1	6383.0	6006.6	5005.5	4051.3	3340.4	3005.8	2862.6	2772.7	2703.0	2690.3
35°	6818.9	6649.1	6033.2	4665.9	3585.0	2983.0	2763.8	2616.8	2495.1	2405.2	2396.3
37.5°	7168.6	6982.4	5972.4	4226.2	3132.6	2751.1	2562.3	2381.1	2222.7	2096.0	2075.7
40°	7673.0	7391.7	5803.8	3719.3	2799.3	2572.4	2365.9	2159.3	1962.9	1814.7	1785.5
42.5°	8278.7	7871.9	5545.3	3214.9	2554.7	2391.2	2170.7	1914.8	1727.2	1622.0	1606.8
45°	9049.2	8371.2	5186.7	2773.9	2313.9	2210.0	1960.4	1724.7	1608.1	1530.8	1518.1
47.5°	9928.6	8931.3	4810.4	2415.3	2109.9	2040.2	1791.8	1639.8	1547.3	1486.4	1475.0
50°	11009.6	9563.7	4411.2	2121.3	1904.6	1836.2	1712.0	1592.9	1519.4	1472.5	1461.1
52.5°	12228.6	10277.1	4123.5	1889.4	1734.8	1685.4	1670.2	1567.5	1508.0	1472.5	1461.1
55°	13541.5	11003.2	3813.1	1694.3	1587.8	1601.8	1642.3	1570.1	1529.5	1486.4	1470.0
57.5°	14855.6	11753.4	3467.1	1529.5	1471.2	1539.7	1623.3	1575.1	1540.9	1499.1	1483.9
60°	15894.7	12228.6	2931.1	1391.4	1378.7	1471.2	1577.7	1537.1	1492.8	1494.0	1491.5
62.5°	16380.0	12203.3	2339.3	1268.5	1286.2	1378.7	1504.2	1477.6	1440.8	1490.2	1494.0
65°	16107.6	11595.0	1821.0	1157.0	1187.4	1282.4	1428.2	1448.4	1461.1	1556.1	1568.8
67.5°	14964.6	10411.4	1410.4	1059.4	1097.4	1216.5	1435.8	1577.7	1594.2	1694.3	1693.0
69°	13782.2	9301.4	1225.4	1008.7	1053.1	1233.0	1534.6	1660.1	1598.0	1704.4	1689.2
70°	12791.3	8423.2	1126.6	974.5	1032.8	1262.1	1600.5	1658.8	1579.0	1670.2	1644.8
72.5°	9851.3	6059.8	955.5	911.1	964.4	1207.7	1619.5	1622.0	1534.6	1552.3	1509.3
75°	6756.8	3829.5	833.8	825.0	860.4	1088.5	1558.7	1549.8	1419.3	1393.9	1358.5
77.5°	3725.6	1945.2	708.4	742.6	766.7	964.4	1416.7	1404.1	1296.4	1243.1	1230.5
80°	1437.0	851.6	598.1	660.2	675.4	835.1	1241.9	1230.5	1140.5	1072.1	1053.1
82.5°	542.4	446.1	494.2	571.5	566.4	689.4	1051.8	1045.5	958.0	857.9	827.5
85°	250.9	267.4	391.6	471.4	434.7	510.7	841.4	852.8	746.4	627.3	627.3
87.5°	106.4	149.5	277.5	356.1	292.7	344.7	617.1	589.3	541.1	375.1	352.3
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)