

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: P318970

Luminaire Tested: **GAN-SA6C-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35131 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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



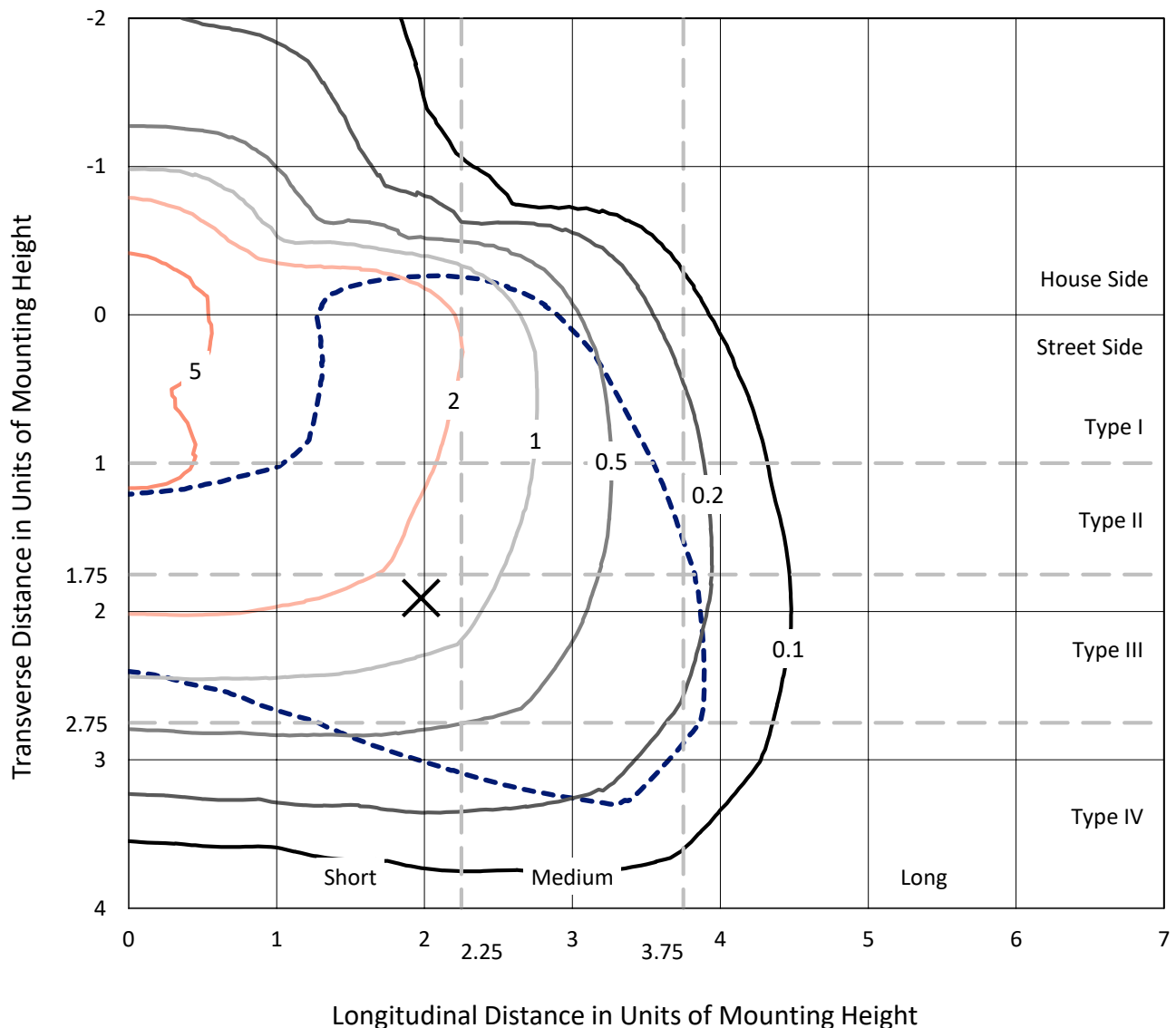
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

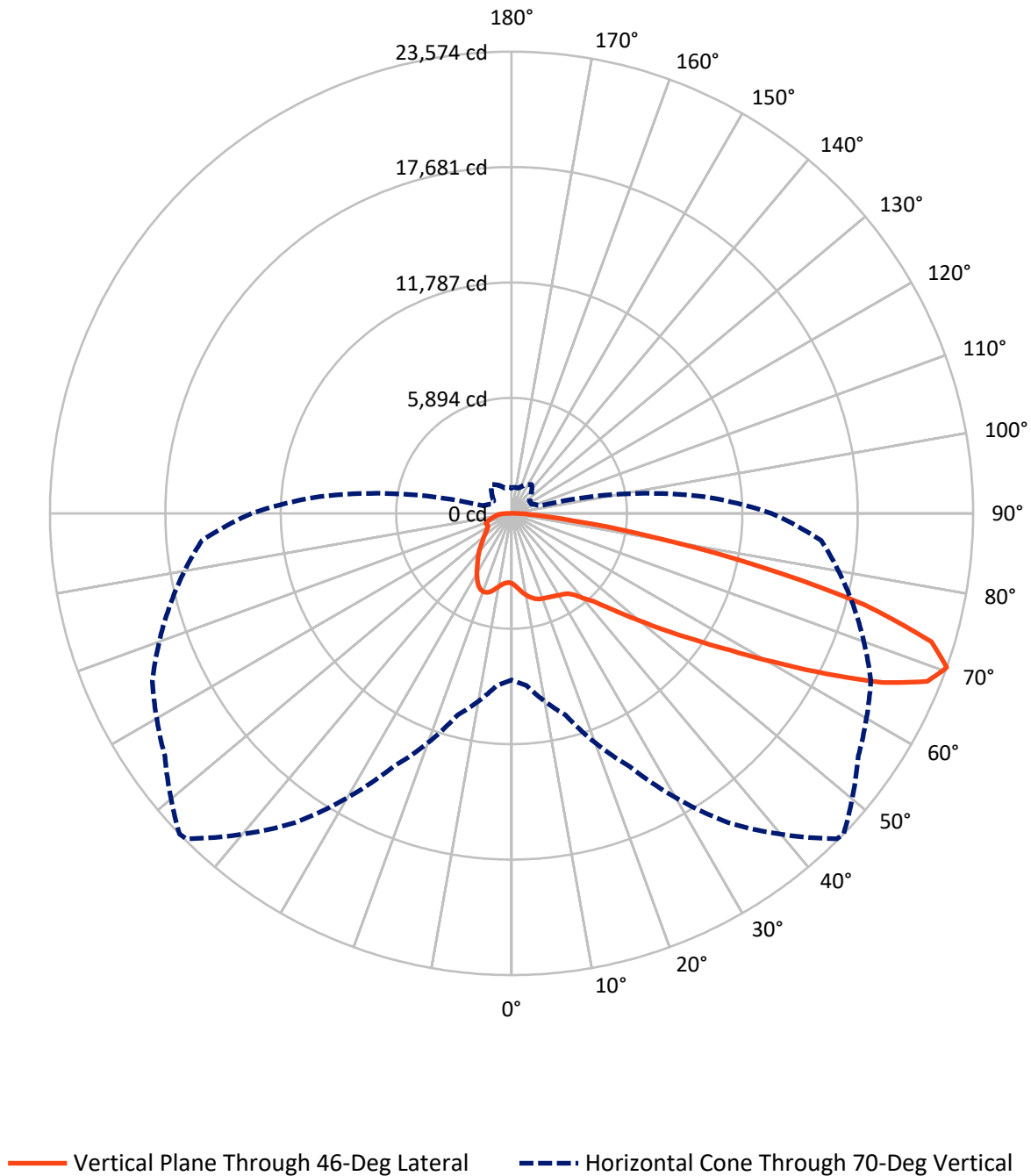


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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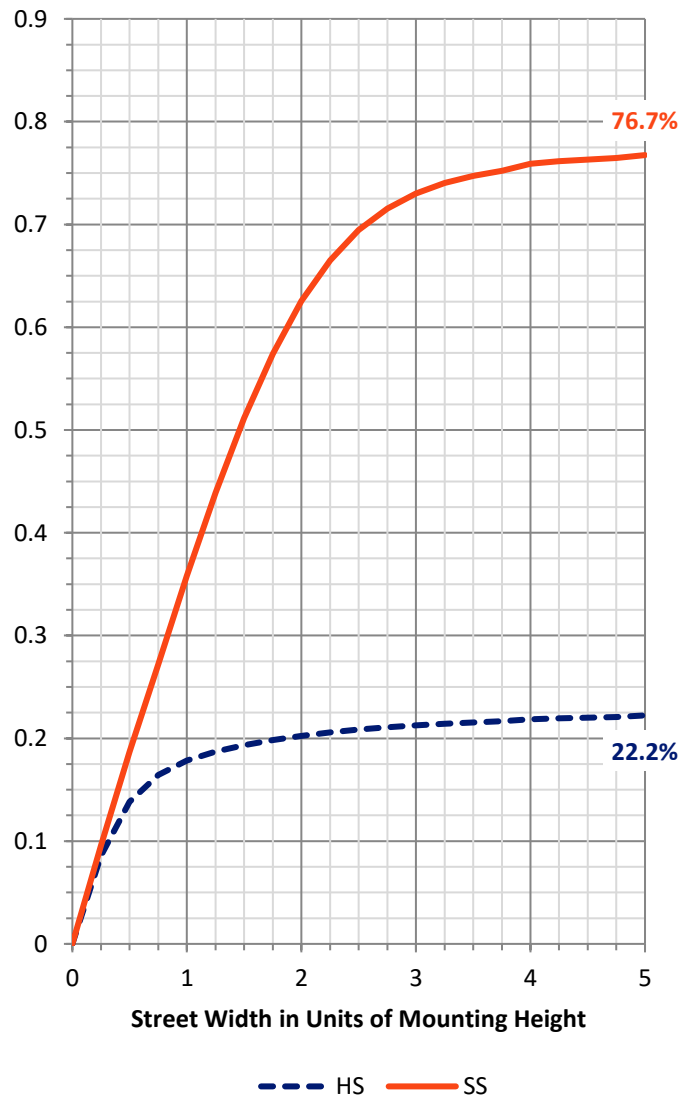
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8051.9	0.0	8051.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	27079.1	0.0	27079.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	35131.0	0.0	35131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.9	1.0
10°-20°	1215.6	3.5
20°-30°	2026.9	5.8
30°-40°	2876.3	8.2
40°-50°	4230.9	12.0
50°-60°	7165.1	20.4
60°-70°	10170.7	29.0
70°-80°	6178.8	17.6
80°-90°	901.7	2.6
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°	35131.0	100.0
0°-180°	35131.0	100.0

Coefficient of Utilization



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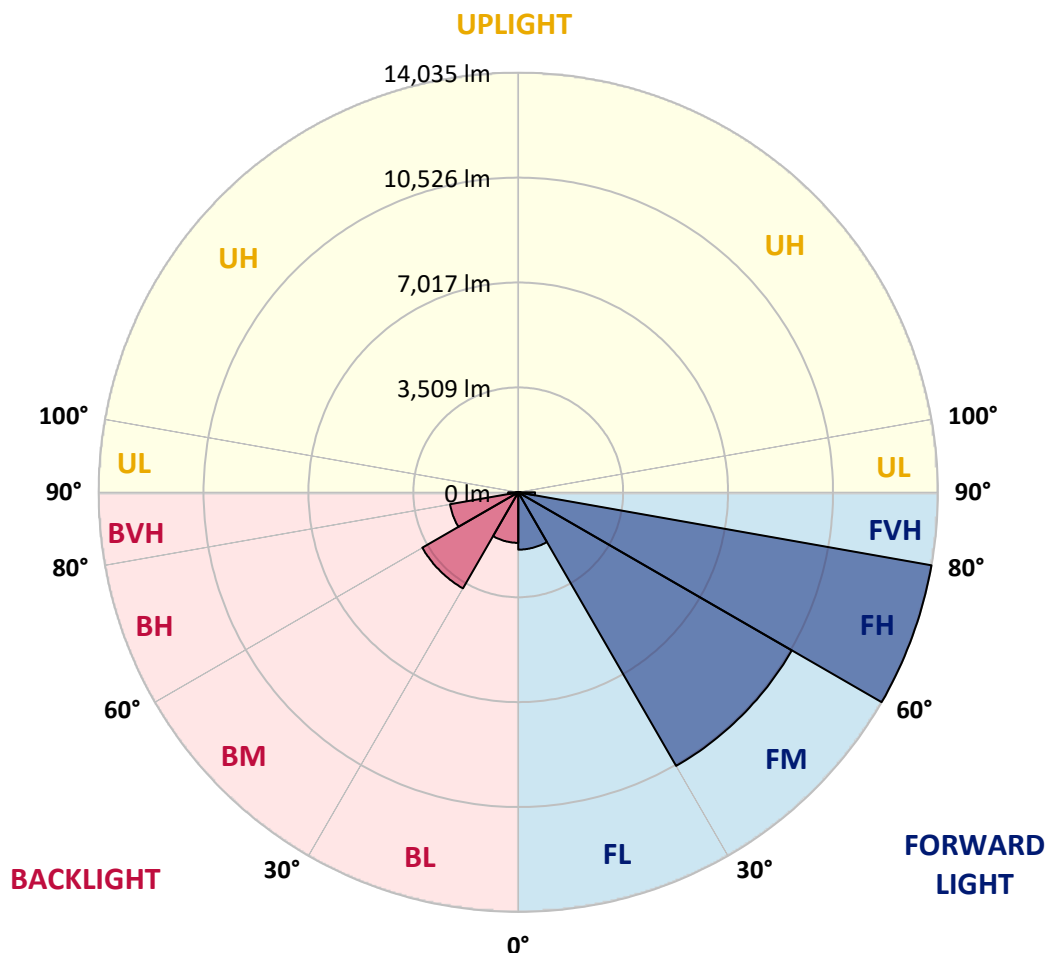
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1916.9	5.5			
FM	(30°-60°)	10565.8	30.1			
FH	(60°-80°)	14034.6	39.9			G5
FVH	(80°-90°)	561.7	1.6			G4/750
BL	(0°-30°)	1690.5	4.8	B3/2500		
BM	(30°-60°)	3706.5	10.6	B3/5000		
BH	(60°-80°)	2314.9	6.6	B3/2500		G3/2500
BVH	(80°-90°)	340.0	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2
2.5°	3758.3	3760.7	3765.5	3753.5	3719.8	3710.2	3706.6	3671.7	3648.9	3615.2	3586.4
5°	4058.9	4061.3	4054.1	4020.4	3945.9	3890.5	3885.7	3806.4	3734.3	3657.3	3599.6
7.5°	4372.7	4376.3	4353.4	4289.7	4185.1	4088.9	4082.9	3974.7	3865.3	3748.7	3662.1
10°	4650.4	4636.0	4598.7	4509.7	4385.9	4268.1	4263.3	4150.2	4024.0	3883.3	3767.9
12.5°	4835.5	4823.5	4775.4	4667.2	4531.4	4423.2	4413.5	4308.9	4186.3	4032.4	3894.2
15°	4937.7	4946.1	4881.2	4758.6	4626.3	4535.0	4526.6	4452.0	4342.6	4187.5	4028.8
17.5°	4951.0	4958.2	4895.6	4774.2	4666.0	4603.5	4599.9	4550.6	4471.2	4322.2	4156.3
20°	4874.0	4878.8	4827.1	4727.3	4656.4	4637.2	4636.0	4614.3	4555.4	4423.2	4262.1
22.5°	4762.2	4765.8	4728.5	4656.4	4632.4	4662.4	4670.8	4662.4	4620.3	4496.5	4345.0
25°	4734.5	4732.1	4693.7	4620.3	4640.8	4704.5	4715.3	4718.9	4690.1	4581.9	4450.8
27.5°	4868.0	4859.6	4786.2	4668.4	4681.6	4758.6	4773.0	4807.9	4789.8	4694.9	4571.0
30°	5253.9	5239.5	5089.2	4851.2	4786.2	4825.9	4844.0	4899.3	4902.9	4823.5	4730.9
32.5°	5905.6	5887.5	5618.2	5192.6	4963.0	4894.4	4911.3	4994.2	5038.7	4977.4	4877.6
35°	6729.1	6708.7	6355.2	5773.3	5258.7	5025.5	5037.5	5103.6	5192.6	5106.0	4973.8
37.5°	7587.5	7538.2	7198.0	6456.2	5728.8	5305.6	5305.6	5314.0	5356.1	5175.8	5086.8
40°	8441.1	8391.9	8084.1	7259.3	6337.2	5746.9	5719.2	5532.9	5499.2	5344.1	5314.0
42.5°	9234.6	9220.2	9038.7	8167.0	7051.3	6180.9	6142.4	5826.2	5833.4	5737.2	5738.4
45°	10078.6	10078.6	9930.8	9083.2	7883.3	6878.2	6839.7	6374.4	6446.6	6402.1	6509.1
47.5°	10767.5	10789.2	10768.7	10037.8	8851.1	7764.3	7694.5	7134.3	7336.3	7488.9	7800.3
50°	11470.9	11504.5	11508.1	11084.9	10020.9	8817.5	8738.1	8143.0	8593.8	9031.5	9643.4
52.5°	12491.6	12567.3	12265.6	12129.7	11454.0	10067.8	9989.7	9440.2	10192.9	10807.2	11861.6
55°	13437.8	13371.7	13156.5	13240.6	12988.1	11491.3	11432.4	10950.3	11974.6	12772.9	14142.3
57.5°	13950.0	13945.1	14161.6	14522.2	14642.5	13246.6	13197.3	12728.4	13983.6	14583.5	16283.6
60°	14551.1	14559.5	15095.7	15914.5	16409.8	15432.4	15410.7	15054.8	15934.9	16273.9	17963.1
62.5°	14635.2	14786.7	15710.1	17119.1	18064.1	17986.0	18034.1	17150.4	17680.6	17622.9	19217.1
65°	13667.4	13867.0	15538.2	17483.4	19708.8	20778.9	20823.3	19258.0	19057.2	18775.9	19665.5
67.5°	11683.7	11979.4	13794.9	16691.1	20251.1	22843.2	22905.7	20891.9	20199.4	19166.6	18585.9
70°	8502.5	8830.7	10658.1	14255.3	19284.4	23503.2	23574.1	21614.4	20242.6	18054.5	15866.4
72.5°	5136.1	5393.4	6899.8	10494.6	16276.3	22300.9	22427.2	20698.3	18481.3	15292.9	11716.1
75°	2255.5	2423.8	3336.3	6047.4	11652.4	18451.3	18608.8	17716.7	15016.4	11113.8	6925.1
77.5°	960.6	1008.7	1368.2	2627.0	6587.2	12608.2	12824.6	12944.9	10188.0	6047.4	2926.3
80°	598.7	618.0	774.3	1189.0	3082.6	7081.4	7314.6	7616.4	5059.2	2223.0	1021.9
82.5°	364.3	385.9	514.6	719.0	1605.0	3210.1	3321.9	3534.7	1963.3	960.6	529.0
85°	218.8	234.4	315.0	454.5	913.7	1262.4	1261.2	1394.6	924.5	618.0	278.9
87.5°	104.6	116.6	168.3	235.6	460.5	473.7	443.6	502.5	561.5	405.2	140.7
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°	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2	3579.2
2.5°	3576.8	3571.9	3556.3	3544.3	3541.9	3534.7	3528.7	3532.3	3537.1	3538.3	3538.3
5°	3575.6	3562.3	3541.9	3533.5	3544.3	3558.7	3576.8	3600.8	3615.2	3626.0	3633.3
7.5°	3633.3	3608.0	3585.2	3580.4	3602.0	3640.5	3681.4	3731.8	3766.7	3790.8	3795.6
10°	3729.4	3698.2	3675.3	3680.2	3718.6	3773.9	3831.6	3896.6	3949.5	3981.9	3984.3
12.5°	3840.1	3810.0	3788.4	3808.8	3872.5	3939.8	4000.0	4056.5	4104.6	4137.0	4137.0
15°	3967.5	3945.9	3920.6	3967.5	4054.1	4114.2	4139.4	4167.1	4193.5	4217.6	4212.8
17.5°	4090.1	4069.7	4056.5	4111.8	4201.9	4229.6	4212.8	4192.3	4192.3	4205.5	4207.9
20°	4195.9	4177.9	4186.3	4240.4	4287.3	4258.4	4195.9	4131.0	4104.6	4111.8	4119.0
22.5°	4288.5	4280.1	4305.3	4330.6	4296.9	4195.9	4080.5	3992.7	3960.3	3957.9	3960.3
25°	4396.7	4395.5	4426.8	4381.1	4232.0	4045.6	3890.5	3805.2	3787.2	3801.6	3825.6
27.5°	4531.4	4544.6	4560.2	4393.1	4099.7	3818.4	3660.9	3602.0	3620.0	3654.9	3677.7
30°	4703.3	4739.4	4705.7	4363.0	3909.8	3558.7	3408.4	3391.6	3440.9	3490.2	3514.2
32.5°	4870.4	4926.9	4845.2	4284.9	3664.5	3283.4	3166.8	3162.0	3222.1	3270.2	3303.8
35°	5005.1	5116.9	4949.8	4129.8	3380.8	3029.7	2944.4	2911.9	2933.5	2990.0	3028.5
37.5°	5180.6	5366.9	5021.9	3893.0	3073.0	2820.5	2720.7	2646.2	2627.0	2649.8	2669.0
40°	5501.6	5748.1	5055.6	3562.3	2772.4	2611.3	2510.3	2400.9	2325.2	2269.9	2271.1
42.5°	6025.8	6244.6	5033.9	3160.8	2494.7	2406.9	2292.7	2166.5	2043.9	1918.8	1909.2
45°	6877.0	6982.8	4969.0	2735.2	2250.7	2192.9	2085.9	1959.7	1796.2	1654.3	1641.1
47.5°	8239.2	8004.7	4868.0	2363.7	2035.4	2011.4	1912.8	1767.3	1594.2	1480.0	1470.4
50°	10096.7	9479.9	4818.7	2067.9	1845.5	1852.7	1772.1	1618.3	1454.7	1370.6	1361.0
52.5°	12318.5	11198.0	4913.7	1839.5	1692.8	1718.0	1657.9	1513.7	1376.6	1310.5	1300.9
55°	14623.2	12977.3	5015.9	1673.6	1548.5	1597.8	1577.4	1458.4	1334.5	1273.2	1264.8
57.5°	16596.2	14305.8	4811.5	1538.9	1419.9	1496.8	1514.9	1423.5	1312.9	1257.6	1248.0
60°	17838.1	14840.8	4275.3	1412.7	1317.7	1416.3	1478.8	1413.9	1321.3	1316.5	1309.3
62.5°	18427.2	14793.9	3471.0	1312.9	1254.0	1381.4	1505.2	1468.0	1417.5	1460.8	1464.4
65°	18162.7	14087.0	2584.9	1246.8	1208.3	1394.6	1584.6	1570.2	1445.1	1488.4	1494.4
67.5°	16421.8	12400.2	1914.0	1189.0	1157.8	1431.9	1728.9	1603.8	1391.0	1422.3	1403.1
70°	13273.1	9831.0	1476.4	1124.1	1106.1	1427.1	1793.8	1583.4	1332.1	1339.3	1287.6
72.5°	9152.9	6703.9	1201.1	1064.0	1031.5	1300.9	1748.1	1532.9	1282.8	1227.5	1159.0
75°	4977.4	3598.4	1020.7	1001.5	900.5	1142.2	1663.9	1496.8	1238.3	1165.0	1126.5
77.5°	1958.5	1493.2	886.1	916.1	787.5	1008.7	1570.2	1428.3	1177.0	1080.8	1061.6
80°	799.5	762.2	734.6	792.3	676.9	882.5	1457.2	1347.7	1103.7	1002.7	964.2
82.5°	453.3	473.7	571.1	625.2	549.4	812.7	1403.1	1282.8	1015.9	898.1	852.4
85°	232.0	277.7	398.0	448.4	404.0	691.3	1292.4	1122.9	815.1	687.7	691.3
87.5°	111.8	155.1	251.3	281.3	262.1	500.1	965.4	813.9	634.8	502.5	486.9
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)