

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: P318832

Luminaire Tested: **GAN-SA8A-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27621 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

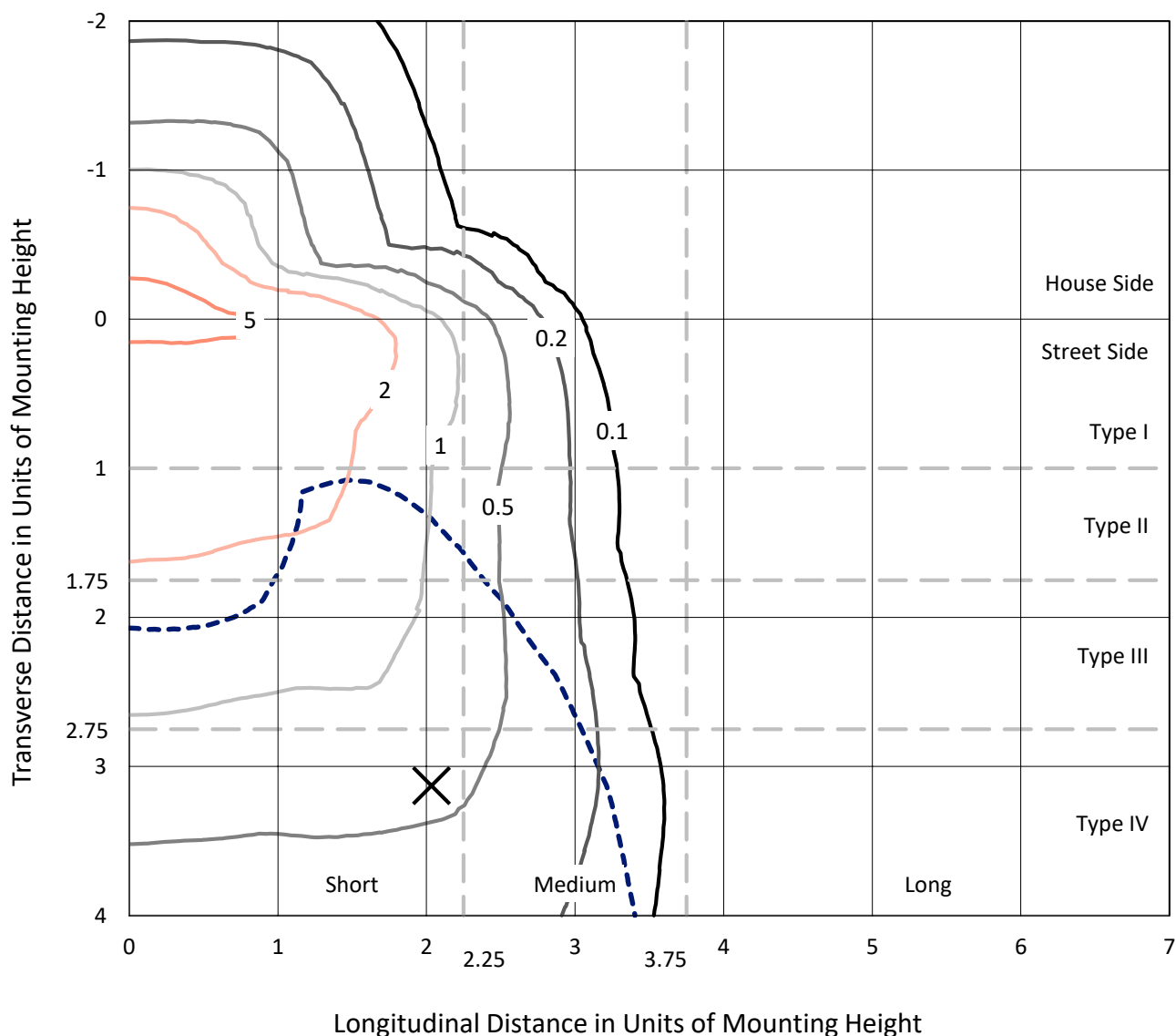
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

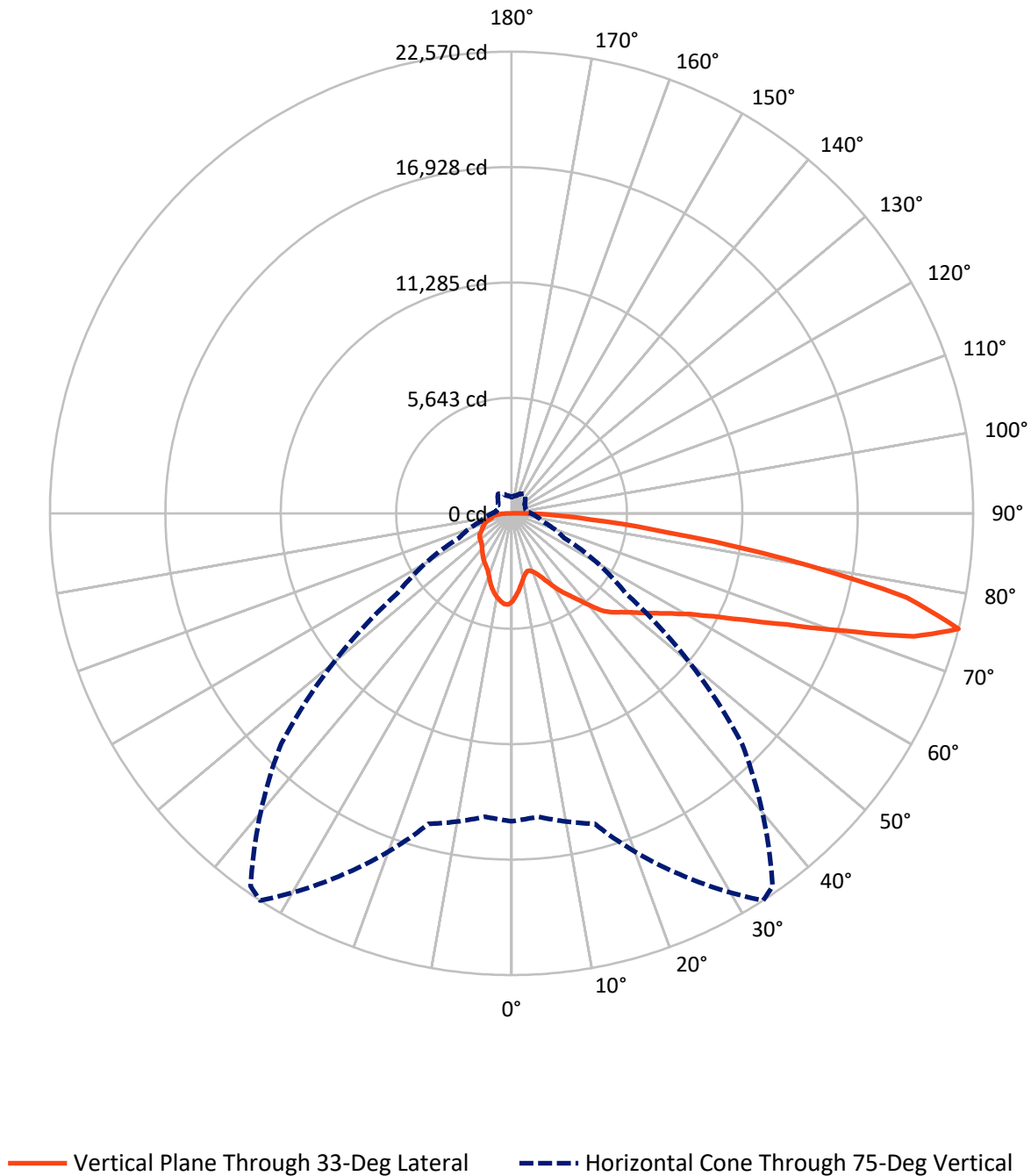
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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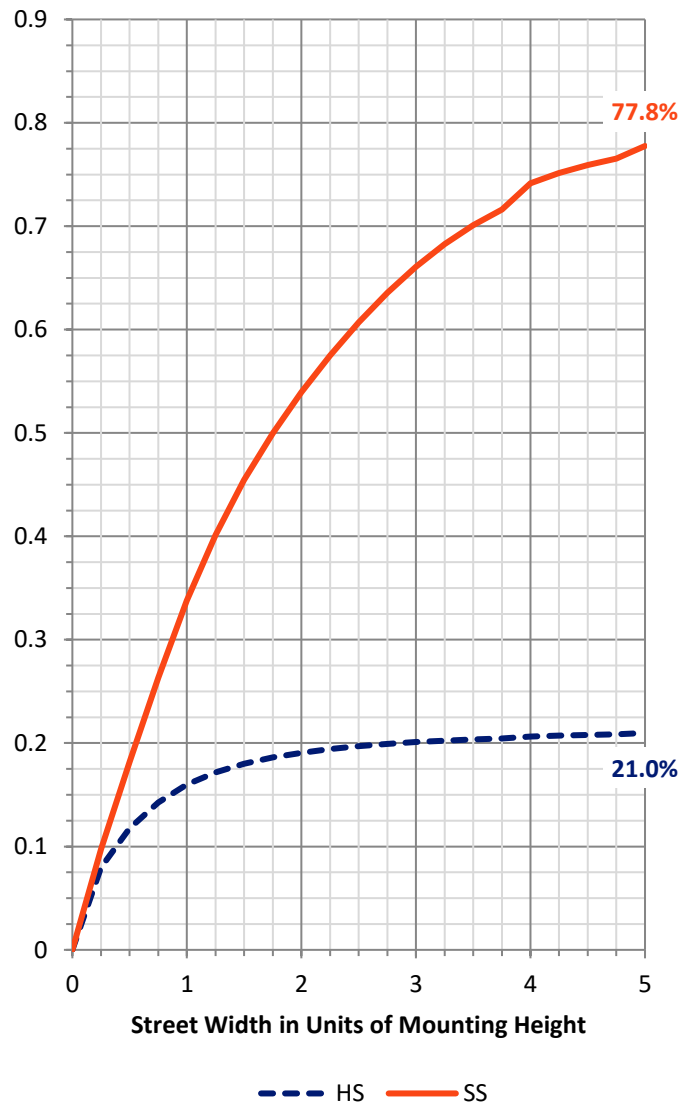
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5930.9	0.0	5930.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	21690.0	0.0	21690.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	27621.0	0.0	27621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.4	1.4
10°-20°	1057.5	3.8
20°-30°	1727.0	6.3
30°-40°	2572.0	9.3
40°-50°	3688.9	13.4
50°-60°	5064.3	18.3
60°-70°	6340.3	23.0
70°-80°	5735.7	20.8
80°-90°	1044.8	3.8
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°	27621.0	100.0
0°-180°	27621.0	100.0

Coefficient of Utilization



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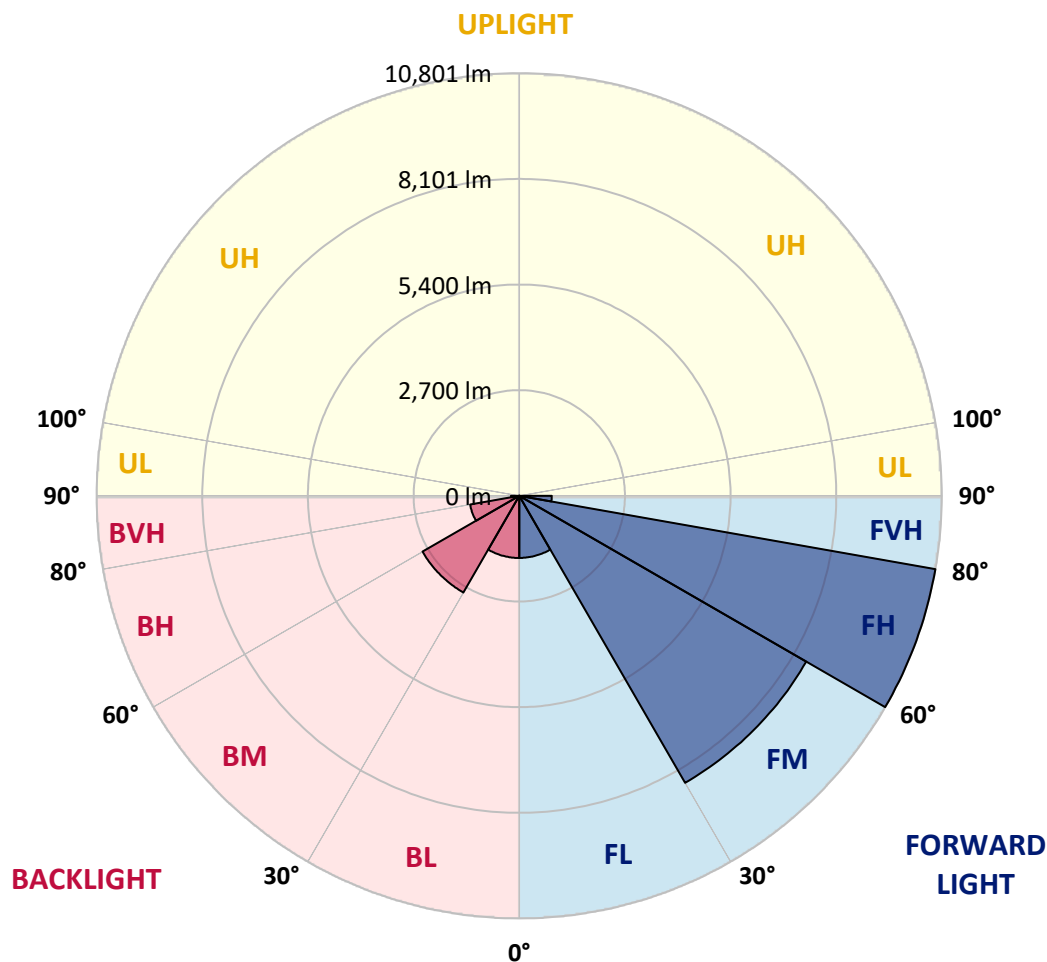
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1586.4	5.7			
FM	(30°-60°)	8470.8	30.7			
FH	(60°-80°)	10800.8	39.1			G4/12000
FVH	(80°-90°)	832.1	3.0			G5
BL	(0°-30°)	1588.6	5.8	B3/2500		
BM	(30°-60°)	2854.4	10.3	B3/5000		
BH	(60°-80°)	1275.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	212.7	0.8			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3
2.5°	4009.1	3993.9	4022.5	4026.3	4051.1	4060.7	4095.0	4148.4	4192.3	4242.9	4288.7
5°	3645.6	3635.1	3675.2	3703.8	3758.2	3781.1	3862.2	3975.7	4076.9	4191.4	4295.4
7.5°	3300.2	3294.5	3339.4	3404.2	3467.2	3498.7	3638.9	3804.0	3972.9	4158.0	4317.3
10°	3009.2	3007.3	3050.3	3114.2	3206.7	3242.0	3423.3	3640.9	3877.5	4132.2	4354.5
12.5°	2846.1	2852.8	2872.8	2926.2	3012.1	3047.4	3248.7	3504.4	3797.3	4123.6	4408.9
15°	2886.2	2896.7	2862.3	2860.4	2921.5	2949.1	3138.0	3407.1	3740.1	4137.9	4488.1
17.5°	3056.9	3058.9	2968.2	2911.0	2948.2	2962.5	3103.7	3351.8	3706.7	4170.4	4587.3
20°	3297.4	3292.6	3132.3	3036.9	3056.9	3060.8	3152.4	3352.7	3703.8	4226.7	4716.1
22.5°	3616.1	3580.7	3365.1	3235.4	3230.6	3224.9	3277.3	3423.3	3745.8	4318.3	4869.7
25°	4032.0	3998.6	3701.9	3524.5	3486.3	3472.0	3479.6	3574.1	3828.8	4416.5	5041.5
27.5°	4494.8	4436.6	4150.3	3899.4	3820.2	3800.2	3754.4	3786.8	3919.5	4511.0	5245.7
30°	4882.1	4850.7	4600.7	4303.0	4209.5	4180.9	4060.7	4025.4	4050.2	4639.8	5503.3
32.5°	5098.7	5077.7	4926.0	4685.6	4598.8	4558.7	4388.9	4318.3	4260.1	4843.0	5852.5
35°	5361.1	5347.7	5256.2	5081.6	4952.7	4910.8	4779.1	4705.6	4555.8	5122.6	6303.8
37.5°	5695.0	5680.7	5682.6	5541.4	5387.8	5348.7	5261.9	5184.6	4939.4	5489.9	6794.2
40°	6072.9	6045.2	6034.7	6028.0	5930.7	5908.8	5863.0	5758.0	5420.3	5928.8	7277.9
42.5°	6641.5	6543.2	6333.3	6412.5	6508.9	6497.4	6534.7	6383.9	5954.6	6447.8	7750.2
45°	7190.1	7028.9	6666.3	6683.5	6894.4	6958.3	7236.9	7130.0	6533.7	7016.5	8238.7
47.5°	7440.1	7318.0	7009.8	7010.8	7219.7	7352.3	7962.9	7886.6	7142.4	7662.4	8835.0
50°	7719.6	7597.5	7320.8	7424.8	7607.1	7748.3	8664.2	8625.1	7721.6	8369.4	9549.6
52.5°	8025.0	7817.9	7642.4	7828.4	8084.1	8248.2	9366.4	9259.6	8253.0	9081.2	10371.1
55°	8028.8	7972.5	8106.1	8242.5	8625.1	8826.4	10102.0	9819.6	8686.2	9780.5	11039.9
57.5°	8485.8	8394.2	8677.6	8740.5	9240.5	9467.6	10833.8	10307.2	9127.0	10316.7	11400.6
60°	9090.7	9012.5	9244.3	9410.3	10001.9	10305.3	11615.3	10808.1	9473.3	10721.3	11383.4
62.5°	10135.4	10046.7	10043.8	10276.6	11073.3	11426.3	12492.1	11299.4	9610.7	10801.4	10897.8
65°	11664.9	11523.7	11257.5	11368.1	12553.1	12905.2	13471.9	11655.3	9429.4	10372.1	9646.9
67.5°	13153.3	13148.5	12821.2	13048.3	14507.1	14789.6	14588.2	11690.6	8863.6	8877.0	7427.7
70°	14636.9	14656.0	14600.6	15390.6	17147.1	17441.0	15777.1	11216.4	7591.8	6410.6	4449.9
72.5°	15812.4	15807.6	16086.2	18123.2	20573.3	20507.5	16778.9	9779.6	5450.8	3460.5	2126.7
75°	15051.0	14885.0	15715.0	19476.1	22570.3	22248.7	15926.8	6821.8	2828.9	1575.2	1144.9
77.5°	9816.8	9974.2	11192.6	16089.0	19742.3	19351.1	11684.9	3182.9	1332.9	1033.3	830.1
80°	3555.0	3721.0	5240.9	9113.6	13601.7	13537.8	5754.2	1308.1	901.6	780.5	604.9
82.5°	1223.2	1284.2	2067.5	4047.3	7679.6	7965.8	2164.9	743.2	655.5	553.4	414.1
85°	479.9	549.6	945.5	1947.3	3873.7	3902.3	876.8	444.6	456.1	362.6	227.1
87.5°	182.2	221.4	452.2	904.5	1768.9	1624.8	313.9	211.8	259.5	215.6	107.8
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°	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3	4317.3
2.5°	4324.0	4344.0	4386.0	4414.6	4445.2	4453.8	4457.6	4465.2	4472.8	4470.0	4470.9
5°	4350.7	4389.8	4457.6	4486.2	4499.6	4484.3	4454.7	4430.9	4413.7	4404.1	4401.3
7.5°	4394.6	4449.9	4522.4	4517.7	4487.1	4419.4	4343.1	4285.8	4238.1	4221.0	4211.4
10°	4452.8	4517.7	4568.2	4513.9	4425.1	4307.8	4193.3	4104.6	4033.0	4005.3	4000.6
12.5°	4527.2	4593.1	4602.6	4487.1	4340.2	4179.9	4024.4	3907.1	3800.2	3765.8	3758.2
15°	4623.6	4685.6	4626.4	4440.4	4235.3	4019.6	3818.3	3659.0	3546.4	3504.4	3489.2
17.5°	4724.7	4783.9	4631.2	4363.1	4097.9	3829.8	3576.9	3413.8	3285.0	3236.3	3230.6
20°	4845.9	4872.6	4611.2	4252.4	3909.0	3583.6	3317.4	3163.8	3095.1	3060.8	3056.9
22.5°	4995.7	4967.1	4565.4	4102.6	3669.5	3299.3	3082.7	3011.1	2994.0	2986.3	2989.2
25°	5154.1	5066.3	4497.6	3907.1	3367.0	3015.0	2911.0	2931.0	2953.9	2951.0	2951.0
27.5°	5328.7	5167.4	4393.6	3647.5	3032.1	2782.2	2794.6	2868.0	2902.4	2901.4	2900.5
30°	5552.9	5281.9	4261.0	3335.5	2719.2	2618.1	2693.4	2783.1	2829.9	2828.0	2828.9
32.5°	5828.6	5407.9	4080.7	2987.3	2493.1	2496.9	2583.7	2672.4	2726.8	2722.1	2723.0
35°	6151.1	5549.1	3836.4	2643.8	2343.3	2400.5	2469.2	2531.2	2582.8	2576.1	2569.4
37.5°	6502.2	5687.4	3512.1	2336.6	2221.2	2310.8	2368.1	2378.6	2402.4	2385.3	2372.9
40°	6836.1	5793.3	3094.2	2084.7	2098.1	2234.5	2271.7	2229.7	2186.8	2181.1	2163.9
42.5°	7127.2	5828.6	2671.5	1883.4	1968.3	2154.4	2177.3	2089.5	2012.2	1975.9	1960.7
45°	7434.4	5841.0	2277.4	1714.5	1843.3	2082.8	2107.6	1990.3	1881.5	1803.3	1777.5
47.5°	7836.0	5930.7	1971.2	1589.5	1747.9	2035.1	2070.4	1911.1	1769.9	1658.2	1634.4
50°	8361.8	6108.2	1722.2	1494.1	1685.9	2003.6	2043.7	1833.8	1678.3	1543.7	1519.9
52.5°	8945.7	6271.3	1520.8	1416.8	1625.8	1948.3	2009.3	1778.4	1592.4	1437.8	1412.1
55°	9354.0	6146.3	1358.6	1336.7	1547.6	1869.1	1961.6	1731.7	1469.3	1334.8	1311.9
57.5°	9432.3	5718.9	1235.6	1253.7	1453.1	1769.9	1888.2	1627.7	1402.5	1289.9	1266.1
60°	9218.5	5123.5	1144.0	1177.4	1352.0	1644.9	1750.8	1554.2	1338.6	1242.2	1222.2
62.5°	8681.4	4513.9	1076.2	1108.7	1257.5	1518.0	1664.9	1477.0	1273.7	1187.9	1167.8
65°	7596.6	3789.7	1011.3	1047.6	1169.7	1408.3	1587.6	1405.4	1209.8	1144.0	1124.9
67.5°	5734.2	2838.5	950.3	982.7	1091.5	1312.8	1503.7	1334.8	1147.8	1105.8	1082.9
70°	3376.6	1777.5	880.6	915.0	1009.4	1213.6	1414.0	1257.5	1070.5	1051.4	1021.8
72.5°	1571.4	1069.5	801.4	834.8	906.4	1081.0	1298.5	1156.4	978.9	936.9	896.9
75°	937.9	782.4	707.9	737.5	788.1	939.8	1153.5	1053.3	892.1	836.7	794.8
77.5°	701.3	598.2	604.9	636.4	677.4	822.4	1021.8	972.2	825.3	782.4	753.7
80°	504.7	454.2	493.3	527.6	570.6	748.0	978.9	898.8	746.1	688.9	662.1
82.5°	336.8	326.3	371.1	406.4	448.4	654.5	919.8	787.1	637.3	564.8	505.7
85°	186.1	196.5	250.0	265.2	301.5	460.8	753.7	632.6	479.9	386.4	369.2
87.5°	77.3	90.6	134.5	129.8	160.3	274.8	496.1	381.6	305.3	228.0	177.5
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)