

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: P318979

Luminaire Tested: **GAN-SA5D-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318979
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-SA5D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32204 lumens
Efficiency: N/A
Efficacy: 100.6 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): 320
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

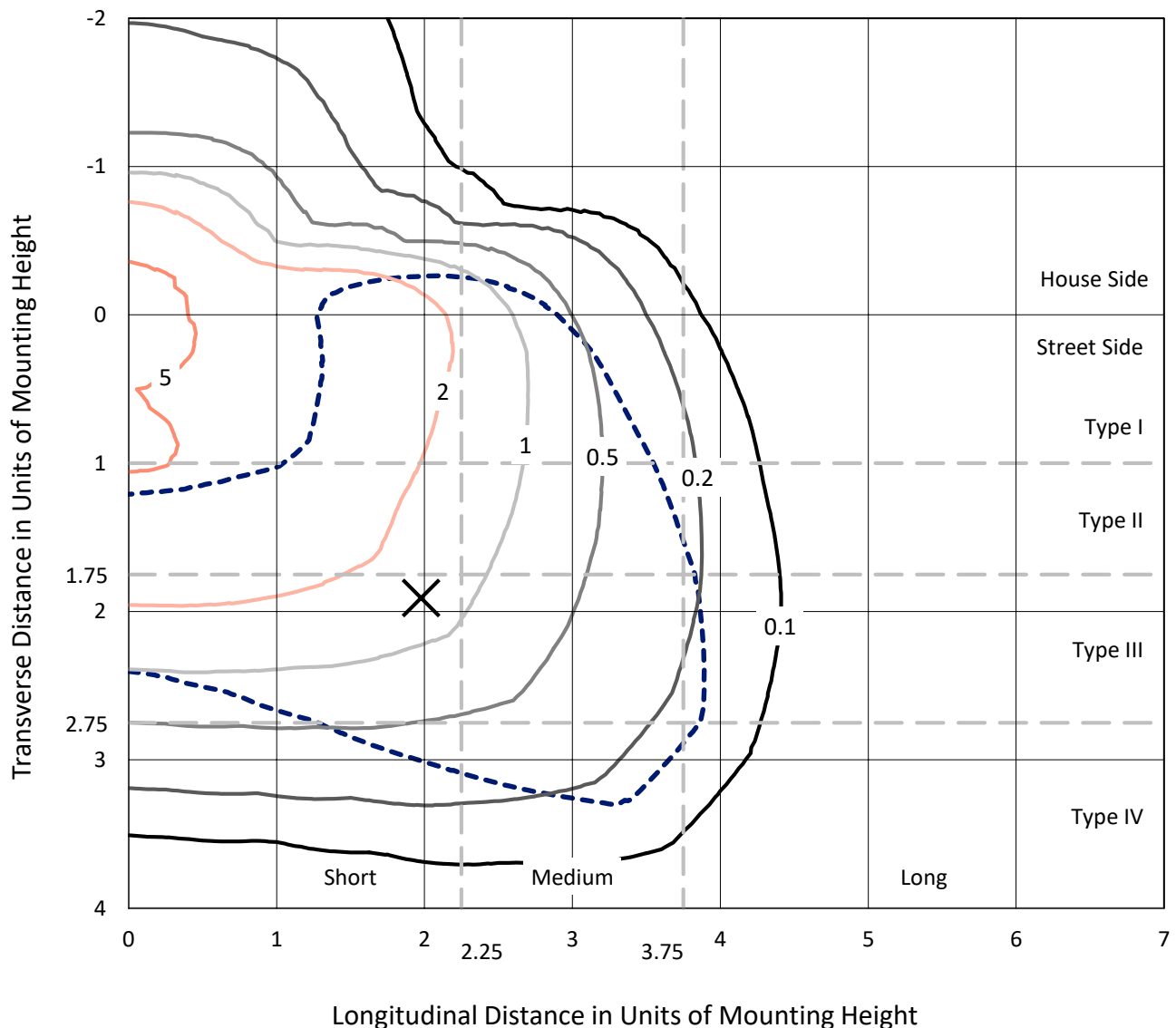


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Iso-Footcandle Lines of Horizontal Illumination

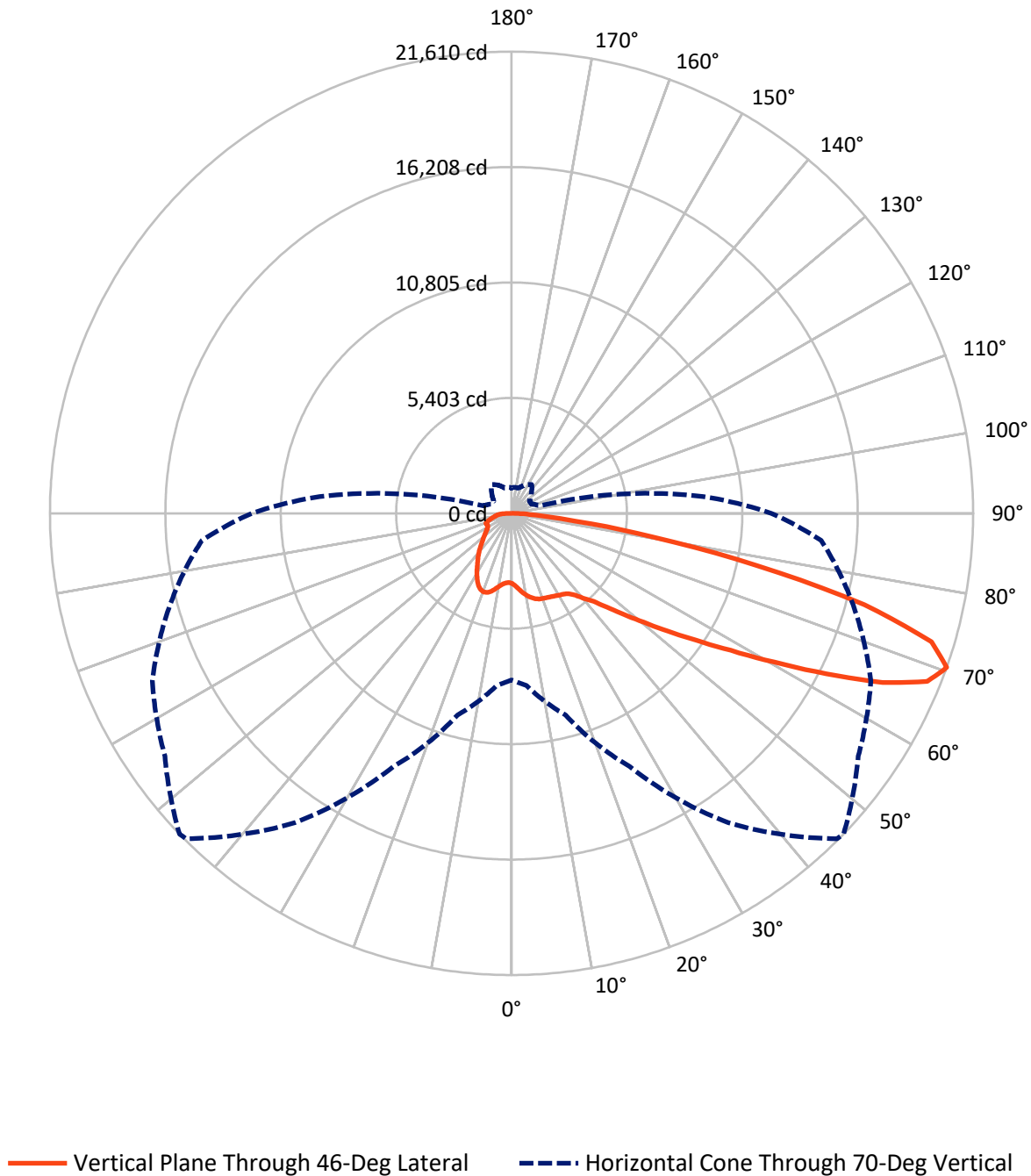
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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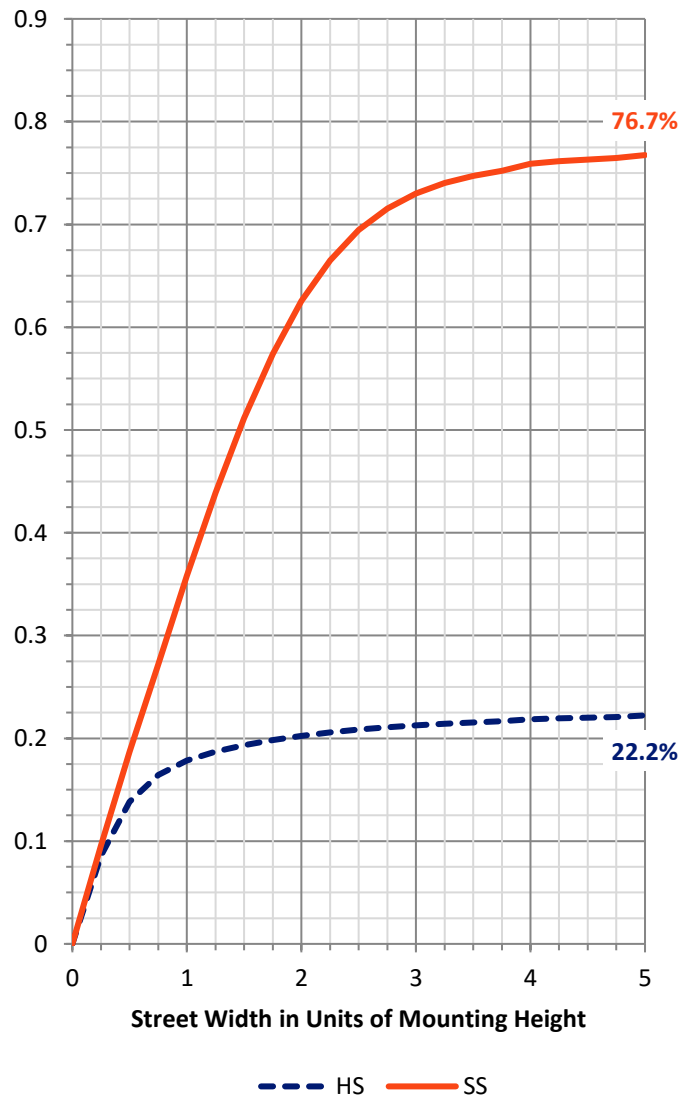
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7381.1	0.0	7381.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	24822.9	0.0	24822.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	32204.0	0.0	32204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.5	1.0
10°-20°	1114.4	3.5
20°-30°	1858.1	5.8
30°-40°	2636.7	8.2
40°-50°	3878.4	12.0
50°-60°	6568.1	20.4
60°-70°	9323.3	29.0
70°-80°	5664.0	17.6
80°-90°	826.6	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°	32204.0	100.0
0°-180°	32204.0	100.0

Coefficient of Utilization



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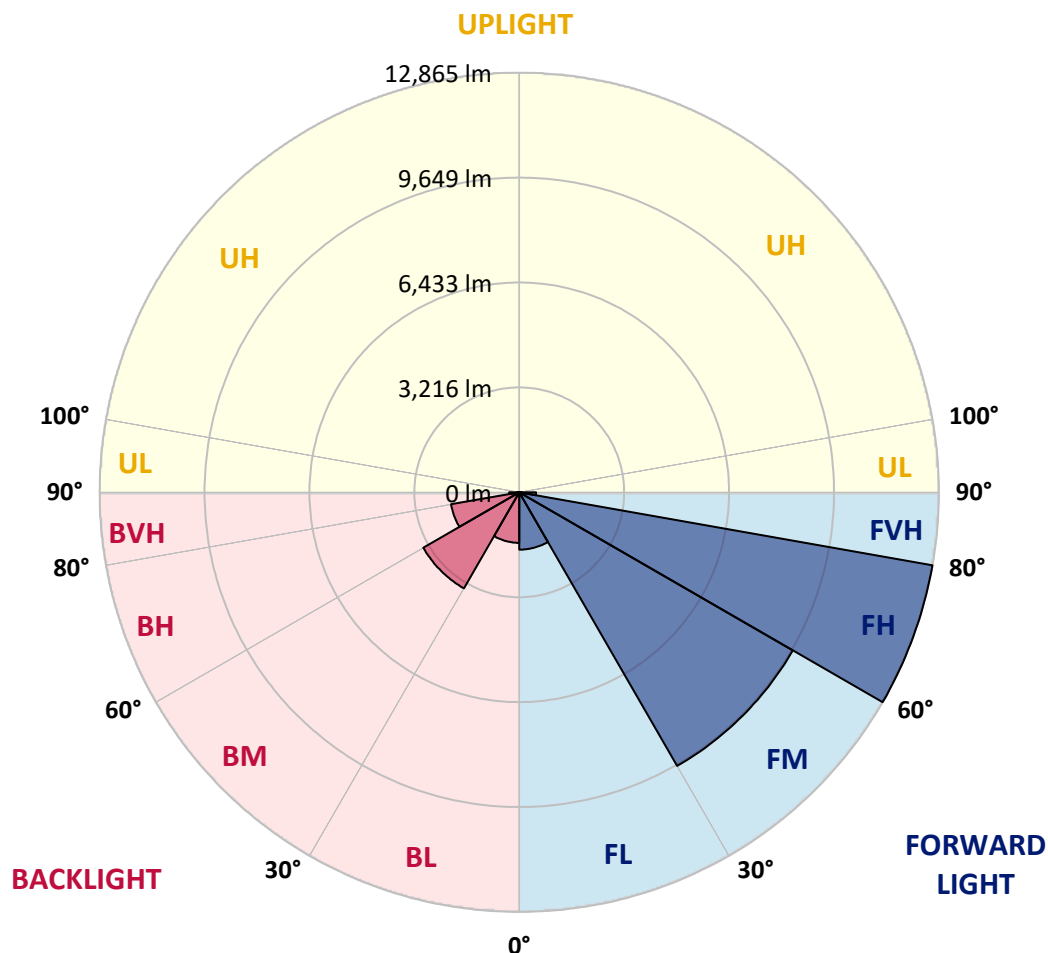
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1757.2	5.5			
FM	(30°-60°)	9685.5	30.1			
FH	(60°-80°)	12865.3	39.9			G5
FVH	(80°-90°)	514.9	1.6			G4/750
BL	(0°-30°)	1549.7	4.8	B3/2500		
BM	(30°-60°)	3397.7	10.6	B3/5000		
BH	(60°-80°)	2122.0	6.6	B3/2500		G3/2500
BVH	(80°-90°)	311.7	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°	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0
2.5°	3445.2	3447.4	3451.8	3440.8	3409.9	3401.1	3397.8	3365.8	3344.9	3314.0	3287.6
5°	3720.7	3722.9	3716.3	3685.4	3617.1	3566.4	3562.0	3489.3	3423.1	3352.6	3299.7
7.5°	4008.3	4011.7	3990.7	3932.3	3836.4	3748.2	3742.7	3643.5	3543.3	3436.4	3357.0
10°	4262.9	4249.7	4215.5	4134.0	4020.5	3912.5	3908.1	3804.5	3688.7	3559.8	3454.0
12.5°	4432.7	4421.6	4377.5	4278.4	4153.8	4054.6	4045.8	3949.9	3837.5	3696.4	3569.7
15°	4526.3	4534.0	4474.5	4362.1	4240.9	4157.1	4149.4	4081.1	3980.8	3838.6	3693.1
17.5°	4538.5	4545.1	4487.8	4376.4	4277.3	4219.9	4216.6	4171.5	4098.7	3962.1	3810.0
20°	4467.9	4472.3	4424.9	4333.5	4268.4	4250.8	4249.7	4229.9	4175.9	4054.6	3907.0
22.5°	4365.4	4368.7	4334.6	4268.4	4246.4	4274.0	4281.7	4274.0	4235.4	4121.9	3983.0
25°	4340.1	4337.9	4302.6	4235.4	4254.1	4312.5	4322.4	4325.7	4299.3	4200.1	4080.0
27.5°	4462.4	4454.7	4387.5	4279.5	4291.6	4362.1	4375.3	4407.3	4390.8	4303.7	4190.2
30°	4816.2	4803.0	4665.2	4447.0	4387.5	4423.8	4440.4	4491.1	4494.4	4421.6	4336.8
32.5°	5413.5	5397.0	5150.1	4760.0	4549.5	4486.7	4502.1	4578.1	4618.9	4562.7	4471.2
35°	6168.5	6149.7	5825.7	5292.3	4820.6	4606.8	4617.8	4678.4	4760.0	4680.6	4559.4
37.5°	6955.4	6910.2	6598.3	5918.3	5251.5	4863.6	4863.6	4871.3	4909.9	4744.5	4663.0
40°	7737.9	7692.7	7410.5	6654.5	5809.2	5268.0	5242.7	5071.9	5041.0	4898.8	4871.3
42.5°	8465.2	8452.0	8285.6	7486.6	6463.8	5665.9	5630.6	5340.8	5347.4	5259.2	5260.3
45°	9238.9	9238.9	9103.4	8326.4	7226.5	6305.1	6269.9	5843.3	5909.5	5868.7	5966.8
47.5°	9870.4	9890.3	9871.5	9201.4	8113.7	7117.4	7053.5	6539.9	6725.0	6865.0	7150.4
50°	10515.2	10546.0	10549.3	10161.4	9186.0	8082.8	8010.1	7464.5	7877.8	8279.0	8840.0
52.5°	11450.8	11520.3	11243.6	11119.1	10499.7	9229.0	9157.4	8653.7	9343.6	9906.8	10873.3
55°	12318.2	12257.6	12060.3	12137.4	11906.0	10533.9	10479.9	10037.9	10976.9	11708.7	12964.0
57.5°	12787.7	12783.3	12981.7	13312.3	13422.5	12143.0	12097.8	11668.0	12818.5	13368.5	14926.9
60°	13338.7	13346.5	13838.0	14588.5	15042.6	14146.6	14126.7	13800.5	14607.3	14918.1	16466.5
62.5°	13415.9	13554.8	14401.2	15692.8	16559.1	16487.4	16531.5	15721.5	16207.5	16154.6	17616.0
65°	12528.7	12711.6	14243.6	16026.8	18066.8	19047.6	19088.4	17653.5	17469.4	17211.5	18027.1
67.5°	10710.2	10981.3	12645.5	15300.5	18563.8	20939.9	20997.2	19151.2	18516.4	17569.7	17037.4
70°	7794.1	8094.9	9770.1	13067.6	17677.7	21545.0	21610.0	19813.6	18556.1	16550.3	14544.4
72.5°	4708.2	4944.0	6325.0	9620.2	14920.3	20442.9	20558.6	18973.8	16941.5	14018.7	10740.0
75°	2067.5	2221.8	3058.3	5543.6	10681.6	16914.0	17058.3	16240.6	13765.3	10187.8	6348.1
77.5°	880.6	924.7	1254.2	2408.1	6038.4	11557.7	11756.1	11866.3	9339.2	5543.6	2682.5
80°	548.8	566.5	709.8	1090.0	2825.8	6491.4	6705.2	6981.8	4637.6	2037.8	936.8
82.5°	333.9	353.8	471.7	659.1	1471.3	2942.6	3045.1	3240.2	1799.7	880.6	484.9
85°	200.6	214.9	288.8	416.6	837.6	1157.2	1156.1	1278.4	847.5	566.5	255.7
87.5°	95.9	106.9	154.3	216.0	422.1	434.2	406.7	460.7	514.7	371.4	128.9
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°	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0	3281.0
2.5°	3278.8	3274.3	3260.0	3249.0	3246.8	3240.2	3234.7	3238.0	3242.4	3243.5	3243.5
5°	3277.7	3265.5	3246.8	3239.1	3249.0	3262.2	3278.8	3300.8	3314.0	3323.9	3330.6
7.5°	3330.6	3307.4	3286.5	3282.1	3301.9	3337.2	3374.6	3420.9	3452.9	3474.9	3479.3
10°	3418.7	3390.1	3369.1	3373.5	3408.8	3459.5	3512.4	3571.9	3620.4	3650.2	3652.4
12.5°	3520.1	3492.6	3472.7	3491.5	3549.9	3611.6	3666.7	3718.5	3762.6	3792.3	3792.3
15°	3636.9	3617.1	3594.0	3636.9	3716.3	3771.4	3794.5	3819.9	3844.1	3866.2	3861.8
17.5°	3749.4	3730.6	3718.5	3769.2	3851.8	3877.2	3861.8	3843.0	3843.0	3855.2	3857.4
20°	3846.3	3829.8	3837.5	3887.1	3930.1	3903.6	3846.3	3786.8	3762.6	3769.2	3775.8
22.5°	3931.2	3923.5	3946.6	3969.8	3938.9	3846.3	3740.5	3660.1	3630.3	3628.1	3630.3
25°	4030.4	4029.3	4057.9	4016.1	3879.4	3708.6	3566.4	3488.2	3471.6	3484.8	3506.9
27.5°	4153.8	4165.9	4180.3	4027.1	3758.2	3500.3	3355.9	3301.9	3318.4	3350.4	3371.3
30°	4311.4	4344.5	4313.6	3999.5	3584.0	3262.2	3124.5	3109.0	3154.2	3199.4	3221.4
32.5°	4464.6	4516.4	4441.5	3927.9	3359.2	3009.8	2902.9	2898.5	2953.6	2997.7	3028.6
35°	4588.1	4690.5	4537.4	3785.7	3099.1	2777.3	2699.0	2669.3	2689.1	2740.9	2776.2
37.5°	4749.0	4919.8	4603.5	3568.6	2817.0	2585.5	2494.1	2425.7	2408.1	2429.0	2446.7
40°	5043.2	5269.1	4634.3	3265.5	2541.4	2393.8	2301.2	2200.9	2131.5	2080.8	2081.9
42.5°	5523.7	5724.3	4614.5	2897.4	2286.9	2206.4	2101.7	1986.0	1873.6	1759.0	1750.1
45°	6304.0	6401.0	4555.0	2507.3	2063.1	2010.2	1912.1	1796.4	1646.5	1516.5	1504.4
47.5°	7552.7	7337.8	4462.4	2166.7	1865.9	1843.8	1753.4	1620.1	1461.4	1356.7	1347.9
50°	9255.5	8690.1	4417.2	1895.6	1691.7	1698.3	1624.5	1483.4	1333.5	1256.4	1247.6
52.5°	11292.1	10265.0	4504.3	1686.2	1551.8	1574.9	1519.8	1387.5	1261.9	1201.3	1192.5
55°	13404.9	11896.1	4598.0	1534.1	1419.5	1464.7	1446.0	1336.8	1223.3	1167.1	1159.4
57.5°	15213.4	13113.9	4410.6	1410.7	1301.6	1372.1	1388.6	1304.9	1203.5	1152.8	1144.0
60°	16351.9	13604.3	3919.1	1295.0	1207.9	1298.3	1355.6	1296.1	1211.2	1206.8	1200.2
62.5°	16891.9	13561.4	3181.8	1203.5	1149.5	1266.3	1379.8	1345.7	1299.4	1339.1	1342.4
65°	16649.5	12913.3	2369.5	1142.9	1107.6	1278.4	1452.6	1439.3	1324.7	1364.4	1369.9
67.5°	15053.6	11367.1	1754.5	1090.0	1061.3	1312.6	1584.8	1470.2	1275.1	1303.8	1286.2
70°	12167.2	9011.9	1353.4	1030.5	1013.9	1308.2	1644.3	1451.5	1221.1	1227.7	1180.4
72.5°	8390.3	6145.3	1101.0	975.4	945.6	1192.5	1602.5	1405.2	1175.9	1125.2	1062.4
75°	4562.7	3298.6	935.7	918.1	825.5	1047.0	1525.3	1372.1	1135.2	1067.9	1032.7
77.5°	1795.3	1368.8	812.2	839.8	721.9	924.7	1439.3	1309.3	1079.0	990.8	973.2
80°	732.9	698.7	673.4	726.3	620.5	808.9	1335.7	1235.5	1011.7	919.2	883.9
82.5°	415.5	434.2	523.5	573.1	503.7	745.0	1286.2	1175.9	931.3	823.3	781.4
85°	212.7	254.6	364.8	411.1	370.3	633.7	1184.8	1029.4	747.2	630.4	633.7
87.5°	102.5	142.2	230.3	257.9	240.3	458.5	885.0	746.1	581.9	460.7	446.4
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)