

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: P318952

Luminaire Tested: **GAN-SA8A-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318952
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-SA8A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31016 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

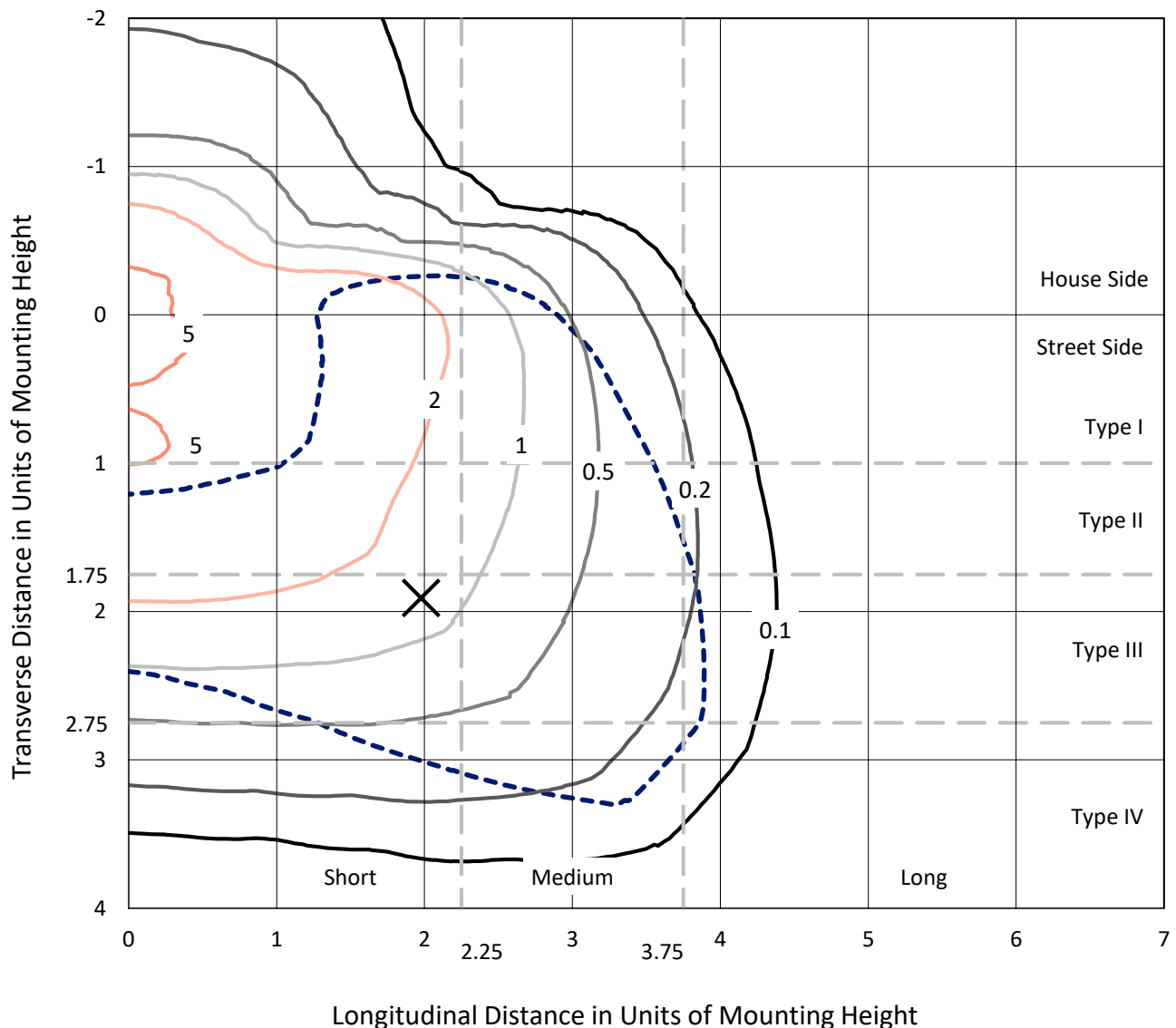
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

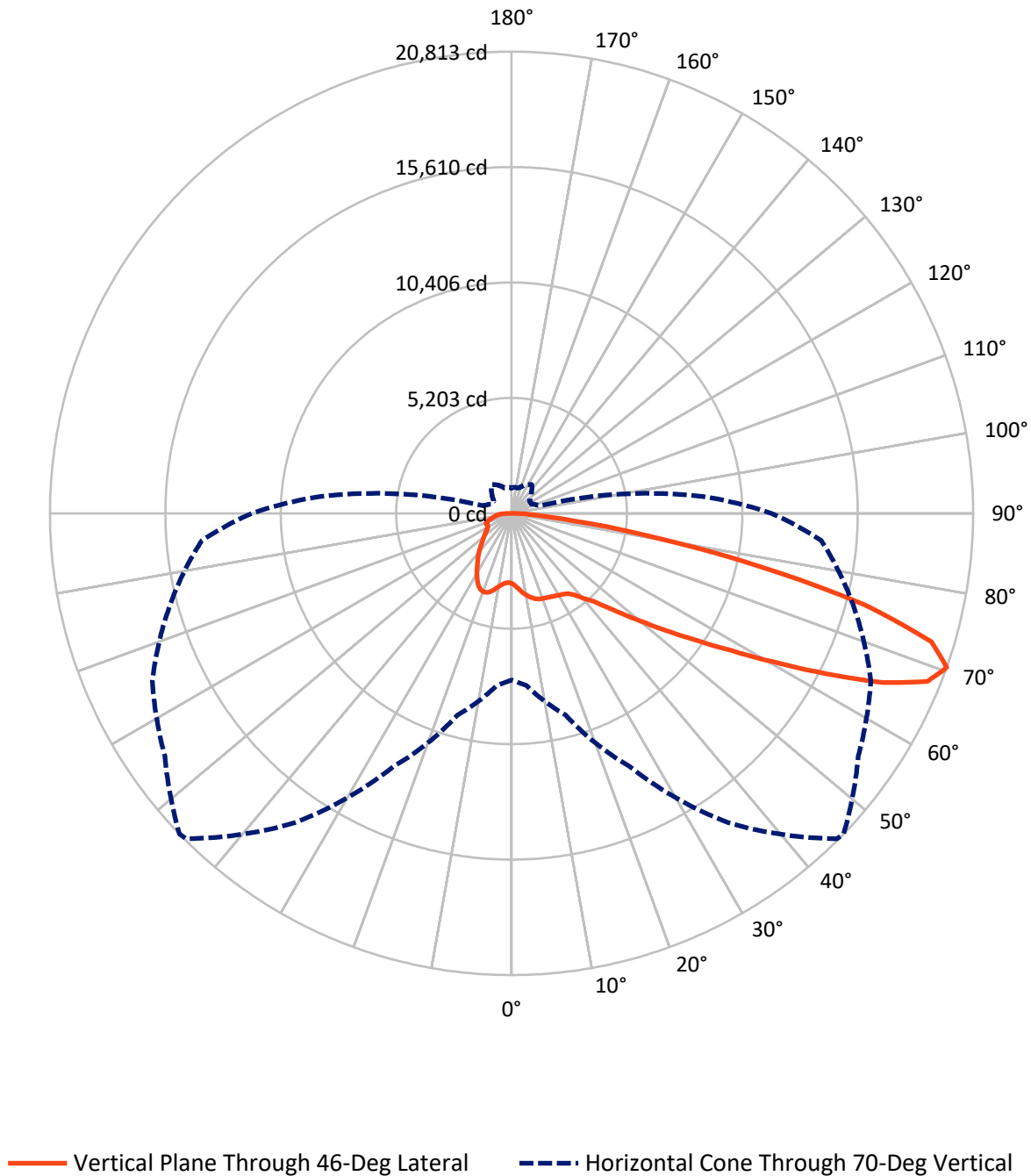
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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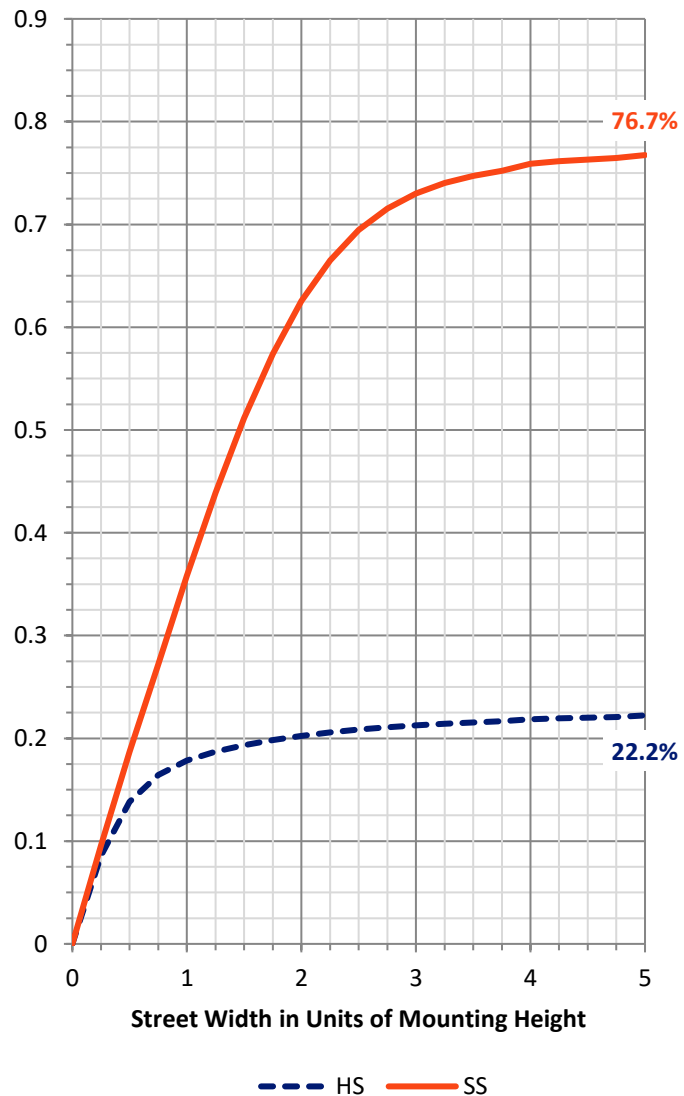
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7108.8	0.0	7108.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	23907.2	0.0	23907.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	31016.0	0.0	31016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.1	1.0
10°-20°	1073.2	3.5
20°-30°	1789.5	5.8
30°-40°	2539.4	8.2
40°-50°	3735.4	12.0
50°-60°	6325.8	20.4
60°-70°	8979.4	29.0
70°-80°	5455.1	17.6
80°-90°	796.1	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°	31016.0	100.0
0°-180°	31016.0	100.0

Coefficient of Utilization



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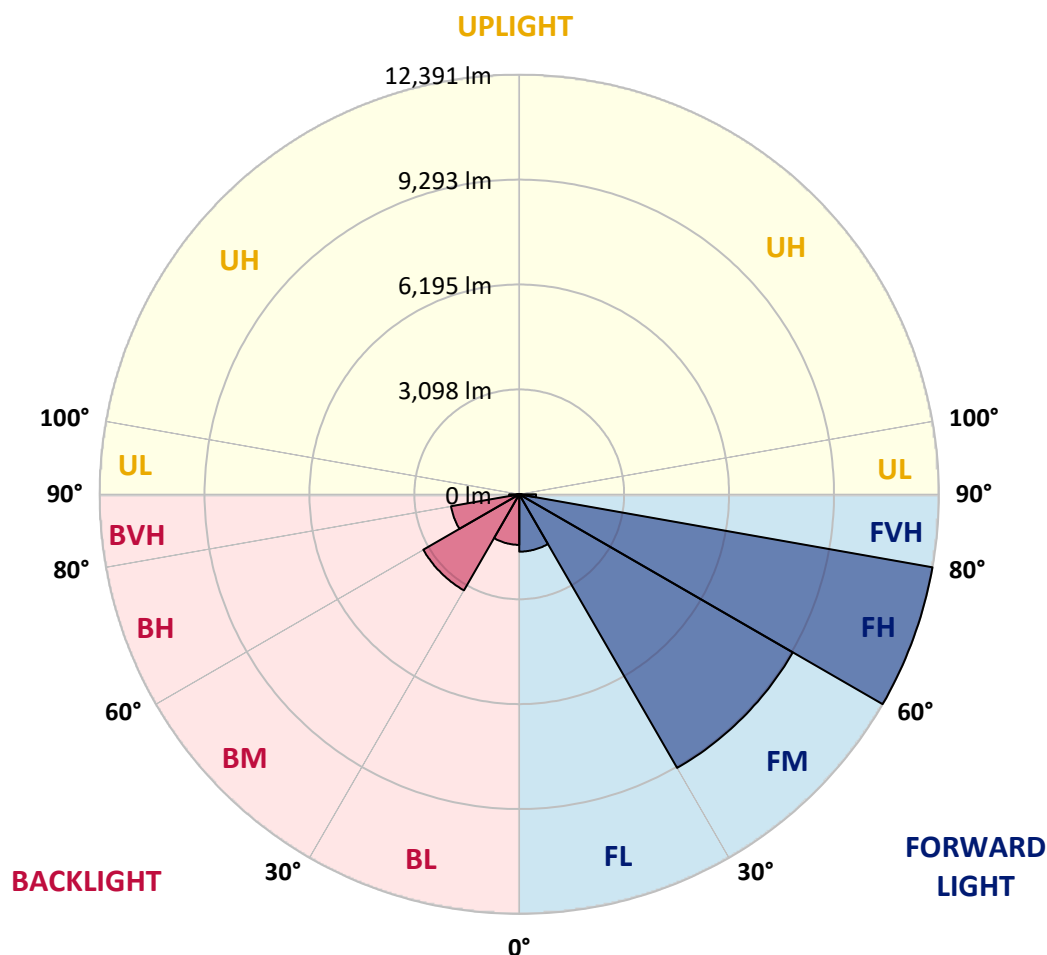
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1692.4	5.5			
FM	(30°-60°)	9328.2	30.1			
FH	(60°-80°)	12390.7	39.9			G5
FVH	(80°-90°)	495.9	1.6			G3/500
BL	(0°-30°)	1492.5	4.8	B3/2500		
BM	(30°-60°)	3272.4	10.6	B3/5000		
BH	(60°-80°)	2043.7	6.6	B3/2500		G3/2500
BVH	(80°-90°)	300.2	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°	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9
2.5°	3318.1	3320.2	3324.4	3313.8	3284.1	3275.6	3272.4	3241.7	3221.5	3191.8	3166.3
5°	3583.4	3585.6	3579.2	3549.5	3483.7	3434.8	3430.6	3360.5	3296.8	3228.9	3178.0
7.5°	3860.5	3863.7	3843.5	3787.2	3694.9	3610.0	3604.7	3509.1	3412.5	3309.6	3233.2
10°	4105.7	4092.9	4060.0	3981.5	3872.2	3768.1	3763.9	3664.1	3552.7	3428.5	3326.6
12.5°	4269.1	4258.5	4216.1	4120.5	4000.6	3905.1	3896.6	3804.2	3696.0	3560.1	3438.0
15°	4359.4	4366.8	4309.5	4201.2	4084.4	4003.8	3996.3	3930.5	3833.9	3697.0	3556.9
17.5°	4371.0	4377.4	4322.2	4215.0	4119.5	4064.3	4061.1	4017.6	3947.5	3815.9	3669.4
20°	4303.1	4307.3	4261.7	4173.6	4111.0	4094.0	4092.9	4073.8	4021.8	3905.1	3762.8
22.5°	4204.4	4207.6	4174.7	4111.0	4089.7	4116.3	4123.7	4116.3	4079.1	3969.8	3836.1
25°	4180.0	4177.8	4143.9	4079.1	4097.2	4153.4	4163.0	4166.2	4140.7	4045.2	3929.5
27.5°	4297.8	4290.4	4225.6	4121.6	4133.3	4201.2	4213.9	4244.7	4228.8	4144.9	4035.6
30°	4638.5	4625.8	4493.1	4282.9	4225.6	4260.6	4276.6	4325.4	4328.6	4258.5	4176.8
32.5°	5213.8	5197.9	4960.1	4584.4	4381.6	4321.1	4336.0	4409.2	4448.5	4394.4	4306.3
35°	5940.9	5922.9	5610.8	5097.1	4642.8	4436.8	4447.5	4505.8	4584.4	4508.0	4391.2
37.5°	6698.8	6655.3	6354.9	5700.0	5057.8	4684.2	4684.2	4691.6	4728.7	4569.5	4491.0
40°	7452.4	7408.9	7137.2	6409.0	5594.9	5073.7	5049.3	4884.8	4855.1	4718.1	4691.6
42.5°	8153.0	8140.2	7979.9	7210.4	6225.4	5456.9	5422.9	5143.8	5150.1	5065.2	5066.3
45°	8898.1	8898.1	8767.5	8019.2	6959.9	6072.5	6038.6	5627.8	5691.5	5652.2	5746.7
47.5°	9506.3	9525.4	9507.4	8862.0	7814.4	6854.8	6793.3	6298.6	6476.9	6611.7	6886.7
50°	10127.3	10157.0	10160.2	9786.5	8847.1	7784.6	7714.6	7189.2	7587.2	7973.6	8513.9
52.5°	11028.4	11095.3	10828.9	10708.9	10112.4	8888.5	8819.6	8334.5	8998.9	9541.3	10472.2
55°	11863.8	11805.4	11615.4	11689.7	11466.8	10145.3	10093.3	9667.6	10572.0	11276.8	12485.8
57.5°	12316.0	12311.7	12502.8	12821.2	12927.3	11695.0	11651.5	11237.5	12345.7	12875.3	14376.2
60°	12846.7	12854.1	13327.5	14050.4	14487.7	13624.7	13605.6	13291.4	14068.4	14367.7	15859.1
62.5°	12921.0	13054.7	13869.9	15113.9	15948.2	15879.2	15921.7	15141.5	15609.6	15558.7	16966.1
65°	12066.5	12242.7	13718.1	15435.5	17400.3	18345.0	18384.2	17002.2	16825.0	16576.6	17362.1
67.5°	10315.1	10576.2	12179.0	14736.0	17879.0	20167.5	20222.7	18444.7	17833.3	16921.6	16408.9
70°	7506.5	7796.3	9409.7	12585.6	17025.6	20750.2	20812.8	19082.7	17871.6	15939.7	14007.9
72.5°	4534.5	4761.6	6091.6	9265.4	14369.8	19688.8	19800.2	18273.8	16316.5	13501.6	10343.8
75°	1991.3	2139.9	2945.5	5339.1	10287.5	16290.0	16429.1	15641.5	13257.5	9812.0	6113.9
77.5°	848.1	890.6	1207.9	2319.3	5815.7	11131.4	11322.4	11428.6	8994.7	5339.1	2583.6
80°	528.6	545.6	683.6	1049.8	2721.5	6251.9	6457.8	6724.3	4466.6	1962.6	902.2
82.5°	321.6	340.7	454.3	634.7	1417.0	2834.1	2932.8	3120.6	1733.3	848.1	467.0
85°	193.2	207.0	278.1	401.2	806.7	1114.5	1113.5	1231.3	816.3	545.6	246.3
87.5°	92.3	103.0	148.6	208.0	406.5	418.2	391.7	443.7	495.7	357.7	124.2
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°	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9	3159.9
2.5°	3157.8	3153.6	3139.8	3129.1	3127.0	3120.6	3115.3	3118.5	3122.8	3123.8	3123.8
5°	3156.7	3145.1	3127.0	3119.6	3129.1	3141.9	3157.8	3179.0	3191.8	3201.3	3207.7
7.5°	3207.7	3185.4	3165.2	3161.0	3180.1	3214.1	3250.1	3294.7	3325.5	3346.7	3351.0
10°	3292.6	3265.0	3244.8	3249.1	3283.1	3331.9	3382.8	3440.1	3486.8	3515.5	3517.6
12.5°	3390.3	3363.7	3344.6	3362.7	3418.9	3478.4	3531.4	3581.3	3623.8	3652.4	3652.4
15°	3502.8	3483.7	3461.4	3502.8	3579.2	3632.3	3654.6	3679.0	3702.3	3723.6	3719.3
17.5°	3611.0	3593.0	3581.3	3630.1	3709.8	3734.2	3719.3	3701.3	3701.3	3712.9	3715.1
20°	3704.4	3688.5	3696.0	3743.7	3785.1	3759.6	3704.4	3647.1	3623.8	3630.1	3636.5
22.5°	3786.2	3778.7	3801.0	3823.3	3793.6	3704.4	3602.5	3525.1	3496.4	3494.3	3496.4
25°	3881.7	3880.6	3908.2	3867.9	3736.3	3571.8	3434.8	3359.5	3343.6	3356.3	3377.5
27.5°	4000.6	4012.3	4026.1	3878.5	3619.5	3371.2	3232.1	3180.1	3196.0	3226.8	3247.0
30°	4152.4	4184.2	4154.5	3852.0	3451.8	3141.9	3009.2	2994.3	3037.9	3081.4	3102.6
32.5°	4299.9	4349.8	4277.6	3783.0	3235.3	2898.8	2795.8	2791.6	2844.7	2887.1	2916.9
35°	4418.8	4517.5	4370.0	3646.1	2984.8	2674.8	2599.5	2570.8	2589.9	2639.8	2673.8
37.5°	4573.8	4738.3	4433.7	3437.0	2713.1	2490.2	2402.1	2336.2	2319.3	2339.4	2356.4
40°	4857.2	5074.8	4463.4	3145.1	2447.7	2305.5	2216.3	2119.7	2052.8	2004.0	2005.1
42.5°	5320.0	5513.1	4444.3	2790.5	2202.5	2125.0	2024.2	1912.7	1804.5	1694.1	1685.6
45°	6071.5	6164.9	4387.0	2414.8	1987.0	1936.1	1841.6	1730.2	1585.8	1460.5	1448.9
47.5°	7274.1	7067.1	4297.8	2086.8	1797.0	1775.8	1688.8	1560.3	1407.5	1306.6	1298.1
50°	8914.0	8369.5	4254.3	1825.7	1629.3	1635.7	1564.6	1428.7	1284.3	1210.0	1201.6
52.5°	10875.6	9886.3	4338.1	1624.0	1494.5	1516.8	1463.7	1336.4	1215.4	1157.0	1148.5
55°	12910.4	11457.2	4428.4	1477.5	1367.1	1410.7	1392.6	1287.5	1178.2	1124.1	1116.6
57.5°	14652.2	12630.1	4247.9	1358.7	1253.6	1321.5	1337.4	1256.8	1159.1	1110.3	1101.8
60°	15748.7	13102.5	3774.5	1247.2	1163.3	1250.4	1305.6	1248.3	1166.5	1162.3	1155.9
62.5°	16268.8	13061.1	3064.4	1159.1	1107.1	1219.6	1328.9	1296.0	1251.4	1289.7	1292.8
65°	16035.3	12437.0	2282.1	1100.7	1066.8	1231.3	1399.0	1386.2	1275.9	1314.1	1319.4
67.5°	14498.3	10947.7	1689.8	1049.8	1022.2	1264.2	1526.4	1416.0	1228.1	1255.7	1238.7
70°	11718.4	8679.4	1303.5	992.5	976.5	1259.9	1583.7	1397.9	1176.1	1182.5	1136.8
72.5°	8080.8	5918.6	1060.4	939.4	910.7	1148.5	1543.3	1353.3	1132.6	1083.7	1023.2
75°	4394.4	3176.9	901.2	884.2	795.0	1008.4	1469.0	1321.5	1093.3	1028.5	994.6
77.5°	1729.1	1318.3	782.3	808.8	695.2	890.6	1386.2	1261.0	1039.2	954.2	937.3
80°	705.9	673.0	648.5	699.5	597.6	779.1	1286.5	1189.9	974.4	885.2	851.3
82.5°	400.2	418.2	504.2	552.0	485.1	717.5	1238.7	1132.6	896.9	792.9	752.6
85°	204.9	245.2	351.3	395.9	356.6	610.3	1141.1	991.4	719.7	607.1	610.3
87.5°	98.7	136.9	221.8	248.4	231.4	441.6	852.3	718.6	560.4	443.7	429.9
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)