

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: P318961

Luminaire Tested: **GAN-SA7B-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318961
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-SA7B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33568 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

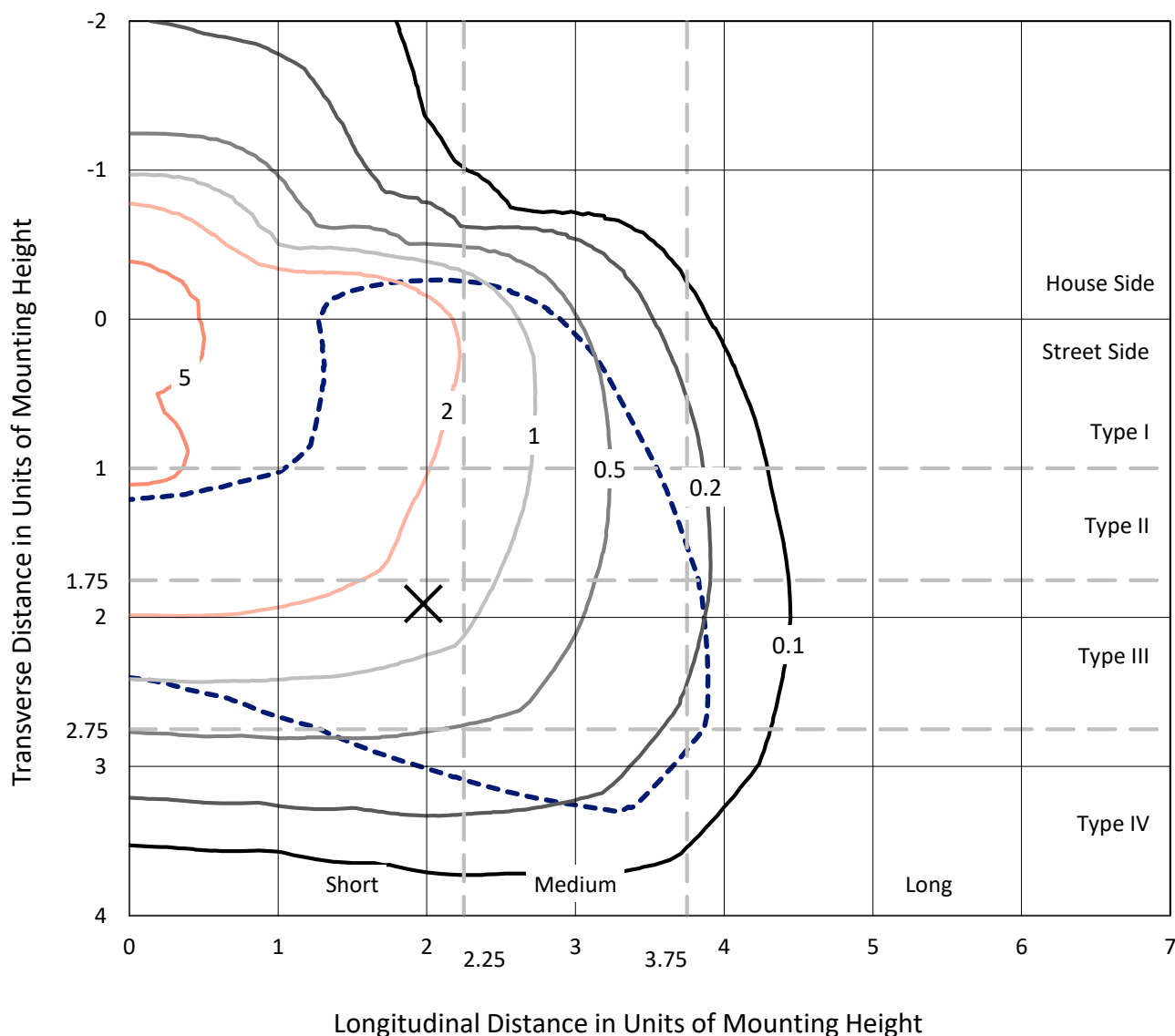
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

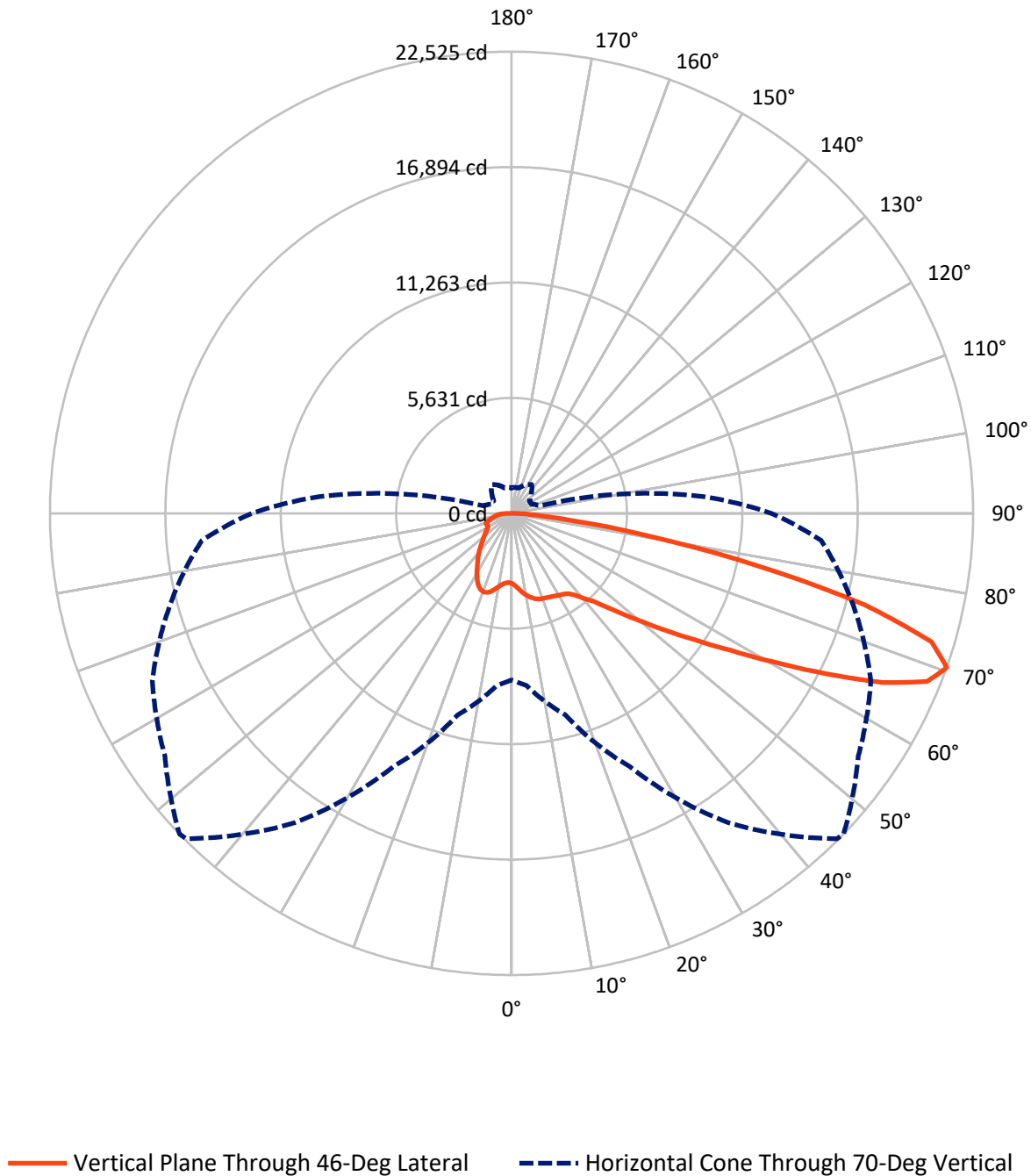
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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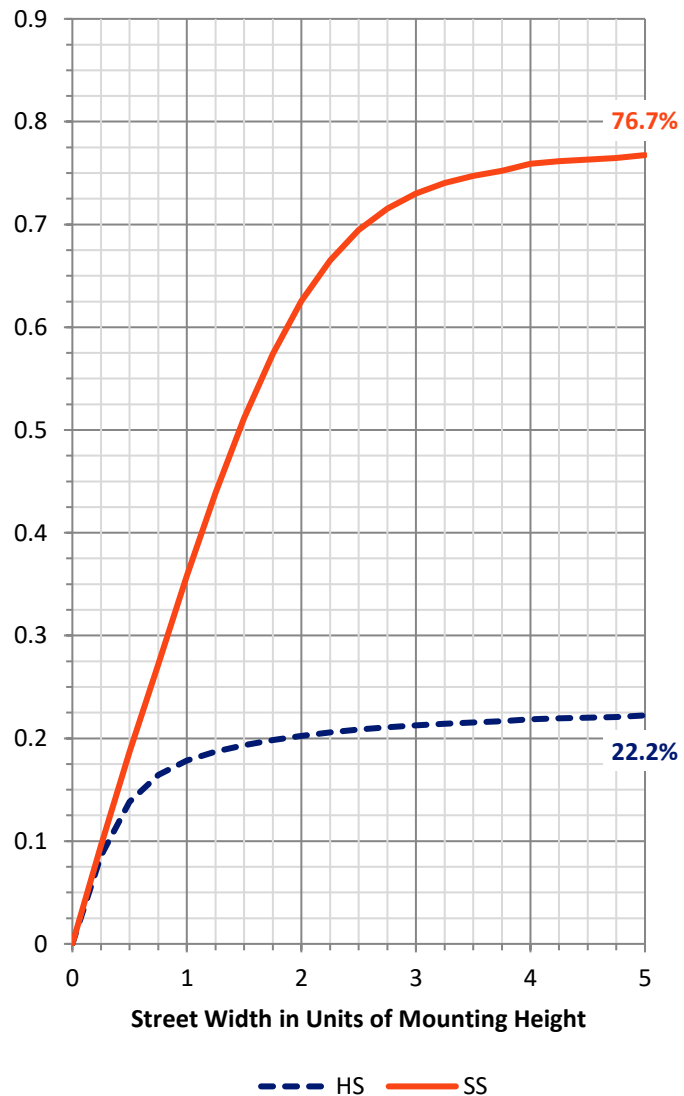
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7693.7	0.0	7693.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25874.3	0.0	25874.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	33568.0	0.0	33568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.6	1.0
10°-20°	1161.6	3.5
20°-30°	1936.7	5.8
30°-40°	2748.4	8.2
40°-50°	4042.7	12.0
50°-60°	6846.3	20.4
60°-70°	9718.2	29.0
70°-80°	5903.9	17.6
80°-90°	861.6	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°	33568.0	100.0
0°-180°	33568.0	100.0

Coefficient of Utilization



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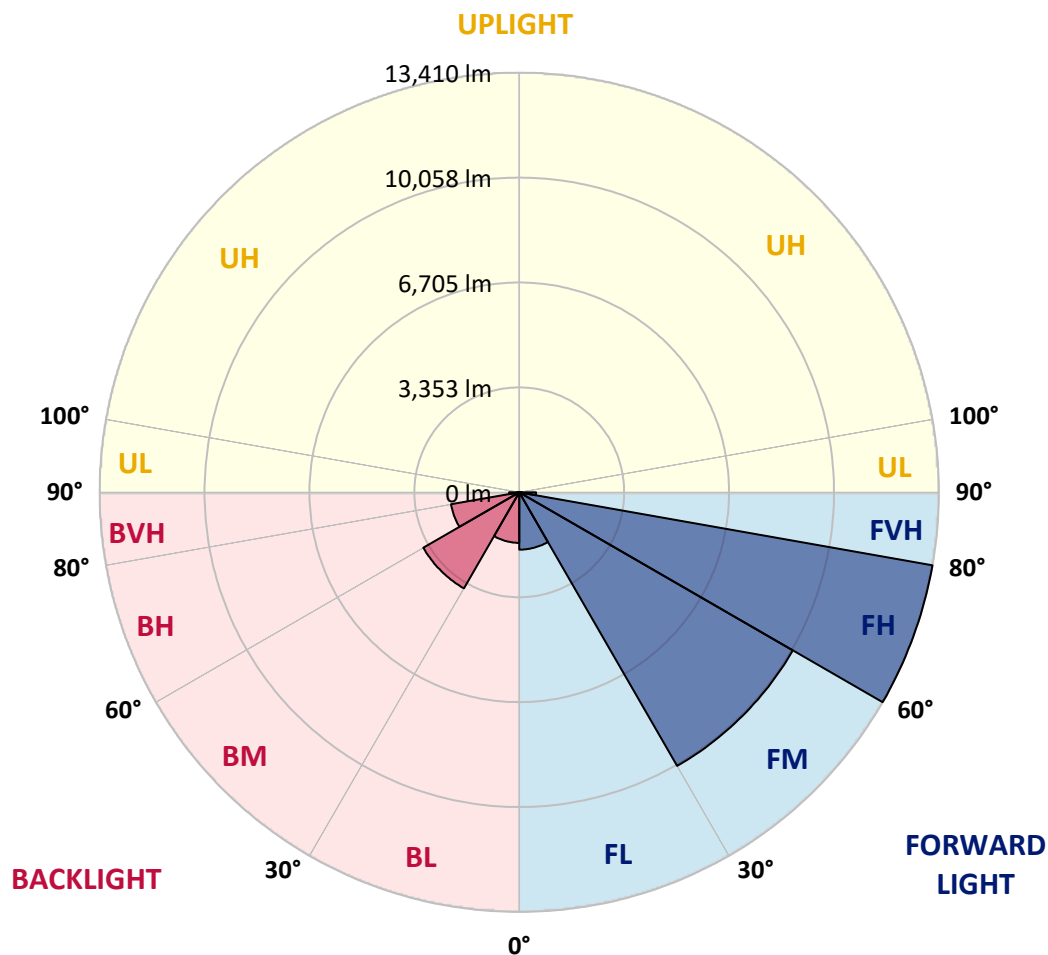
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1831.6	5.5			
FM	(30°-60°)	10095.8	30.1			
FH	(60°-80°)	13410.2	39.9			G5
FVH	(80°-90°)	536.7	1.6			G4/750
BL	(0°-30°)	1615.3	4.8	B3/2500		
BM	(30°-60°)	3541.6	10.6	B3/5000		
BH	(60°-80°)	2211.9	6.6	B3/2500		G3/2500
BVH	(80°-90°)	324.9	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°	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9
2.5°	3591.1	3593.4	3598.0	3586.5	3554.3	3545.1	3541.7	3508.4	3486.6	3454.4	3426.8
5°	3878.3	3880.6	3873.7	3841.5	3770.3	3717.5	3712.9	3637.0	3568.1	3494.6	3439.5
7.5°	4178.1	4181.6	4159.7	4098.9	3998.9	3907.0	3901.3	3797.9	3693.3	3581.9	3499.2
10°	4443.5	4429.7	4394.1	4309.1	4190.8	4078.2	4073.6	3965.6	3845.0	3710.6	3600.3
12.5°	4620.4	4608.9	4563.0	4459.6	4329.8	4226.4	4217.2	4117.2	4000.1	3853.0	3720.9
15°	4718.0	4726.1	4664.1	4546.9	4420.5	4333.2	4325.2	4253.9	4149.4	4001.2	3849.6
17.5°	4730.7	4737.6	4677.8	4561.8	4458.4	4398.7	4395.2	4348.1	4272.3	4129.9	3971.3
20°	4657.2	4661.8	4612.4	4517.0	4449.2	4430.8	4429.7	4409.0	4352.7	4226.4	4072.4
22.5°	4550.3	4553.8	4518.2	4449.2	4426.3	4455.0	4463.0	4455.0	4414.8	4296.4	4151.7
25°	4523.9	4521.6	4484.8	4414.8	4434.3	4495.2	4505.5	4509.0	4481.4	4378.0	4252.8
27.5°	4651.4	4643.4	4573.3	4460.7	4473.4	4546.9	4560.7	4594.0	4576.7	4486.0	4367.7
30°	5020.2	5006.4	4862.8	4635.3	4573.3	4611.2	4628.4	4681.3	4684.7	4608.9	4520.5
32.5°	5642.8	5625.6	5368.3	4961.6	4742.2	4676.7	4692.8	4772.0	4814.5	4756.0	4660.6
35°	6429.7	6410.2	6072.5	5516.4	5024.8	4801.9	4813.4	4876.6	4961.6	4878.9	4752.5
37.5°	7250.0	7202.9	6877.8	6169.0	5473.9	5069.6	5069.6	5077.6	5117.8	4945.5	4860.5
40°	8065.6	8018.5	7724.4	6936.3	6055.2	5491.2	5464.8	5286.7	5254.5	5106.3	5077.6
42.5°	8823.8	8810.0	8636.5	7803.7	6737.6	5905.9	5869.1	5567.0	5573.9	5482.0	5483.1
45°	9630.2	9630.2	9488.9	8679.0	7532.6	6572.2	6535.4	6090.8	6159.8	6117.3	6219.5
47.5°	10288.5	10309.2	10289.6	9591.2	8457.3	7418.8	7352.2	6816.9	7009.9	7155.8	7453.3
50°	10960.5	10992.7	10996.1	10591.8	9575.1	8425.2	8349.3	7780.7	8211.5	8629.6	9214.4
52.5°	11935.8	12008.2	11719.9	11590.1	10944.4	9619.9	9545.2	9020.2	9739.4	10326.4	11333.9
55°	12839.9	12776.7	12571.1	12651.5	12410.3	10980.1	10923.8	10463.1	11441.9	12204.7	13513.1
57.5°	13329.3	13324.7	13531.5	13876.1	13991.0	12657.3	12610.2	12162.1	13361.5	13934.7	15559.1
60°	13903.7	13911.7	14424.1	15206.4	15679.7	14745.8	14725.1	14385.0	15225.9	15549.9	17163.9
62.5°	13984.1	14128.9	15011.1	16357.5	17260.4	17185.8	17231.7	16387.4	16894.0	16838.8	18362.1
65°	13059.3	13250.0	14846.9	16705.6	18832.0	19854.4	19896.9	18401.2	18209.3	17940.5	18790.6
67.5°	11163.9	11446.5	13181.1	15948.5	19350.1	21826.8	21886.6	19962.4	19300.7	18313.9	17759.0
70°	8124.2	8437.8	10183.9	13621.1	18426.5	22457.5	22525.3	20652.8	19342.0	17251.2	15160.5
72.5°	4907.6	5153.4	6592.9	10027.7	15552.2	21308.7	21429.4	19777.4	17659.1	14612.5	11194.9
75°	2155.1	2315.9	3187.9	5778.4	11134.0	17630.3	17780.8	16928.4	14348.3	10619.3	6617.0
77.5°	917.9	963.8	1307.3	2510.1	6294.2	12047.3	12254.1	12368.9	9734.8	5778.4	2796.1
80°	572.1	590.5	739.8	1136.1	2945.5	6766.3	6989.2	7277.5	4834.1	2124.1	976.5
82.5°	348.1	368.8	491.7	687.0	1533.6	3067.2	3174.1	3377.4	1876.0	917.9	505.5
85°	209.1	224.0	301.0	434.2	873.1	1206.2	1205.1	1332.6	883.4	590.5	266.5
87.5°	99.9	111.4	160.8	225.2	440.0	452.6	423.9	480.2	536.5	387.1	134.4
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°	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9	3419.9
2.5°	3417.6	3413.0	3398.1	3386.6	3384.3	3377.4	3371.7	3375.1	3379.7	3380.9	3380.9
5°	3416.5	3403.8	3384.3	3376.3	3386.6	3400.4	3417.6	3440.6	3454.4	3464.7	3471.6
7.5°	3471.6	3447.5	3425.7	3421.1	3441.7	3478.5	3517.6	3565.8	3599.1	3622.1	3626.7
10°	3563.5	3533.7	3511.8	3516.4	3553.2	3606.0	3661.2	3723.2	3773.7	3804.8	3807.1
12.5°	3669.2	3640.5	3619.8	3639.3	3700.2	3764.6	3822.0	3876.0	3921.9	3953.0	3953.0
15°	3791.0	3770.3	3746.2	3791.0	3873.7	3931.1	3955.3	3981.7	4006.9	4029.9	4025.3
17.5°	3908.2	3888.6	3876.0	3928.8	4015.0	4041.4	4025.3	4005.8	4005.8	4018.4	4020.7
20°	4009.2	3992.0	4000.1	4051.8	4096.6	4069.0	4009.2	3947.2	3921.9	3928.8	3935.7
22.5°	4097.7	4089.7	4113.8	4137.9	4105.7	4009.2	3899.0	3815.1	3784.1	3781.8	3784.1
25°	4201.1	4199.9	4229.8	4186.2	4043.7	3865.6	3717.5	3635.9	3618.7	3632.4	3655.4
27.5°	4329.8	4342.4	4357.3	4197.6	3917.3	3648.5	3498.0	3441.7	3459.0	3492.3	3514.1
30°	4494.0	4528.5	4496.3	4168.9	3735.8	3400.4	3256.8	3240.7	3287.8	3334.9	3357.9
32.5°	4653.7	4707.7	4629.6	4094.3	3501.5	3137.3	3025.9	3021.3	3078.7	3124.7	3156.9
35°	4782.4	4889.2	4729.5	3946.1	3230.4	2894.9	2813.4	2782.3	2803.0	2857.0	2893.8
37.5°	4950.1	5128.2	4798.5	3719.8	2936.3	2695.0	2599.7	2528.5	2510.1	2531.9	2550.3
40°	5256.8	5492.3	4830.6	3403.8	2649.1	2495.2	2398.7	2294.1	2221.7	2168.9	2170.0
42.5°	5757.7	5966.8	4809.9	3020.1	2383.7	2299.9	2190.7	2070.1	1952.9	1833.5	1824.3
45°	6571.0	6672.1	4747.9	2613.5	2150.5	2095.4	1993.1	1872.5	1716.3	1580.7	1568.1
47.5°	7872.6	7648.6	4651.4	2258.5	1944.9	1921.9	1827.7	1688.7	1523.3	1414.1	1405.0
50°	9647.5	9058.1	4604.3	1975.9	1763.4	1770.3	1693.3	1546.3	1390.0	1309.6	1300.4
52.5°	11770.4	10699.7	4695.1	1757.6	1617.5	1641.6	1584.2	1446.3	1315.4	1252.2	1243.0
55°	13972.6	12399.9	4792.7	1599.1	1479.6	1526.7	1507.2	1393.5	1275.1	1216.6	1208.5
57.5°	15857.8	13669.3	4597.4	1470.4	1356.7	1430.2	1447.5	1360.2	1254.5	1201.6	1192.4
60°	17044.5	14180.6	4085.1	1349.8	1259.1	1353.3	1413.0	1351.0	1262.5	1257.9	1251.0
62.5°	17607.4	14135.8	3316.5	1254.5	1198.2	1319.9	1438.3	1402.7	1354.4	1395.8	1399.2
65°	17354.6	13460.3	2469.9	1191.3	1154.5	1332.6	1514.1	1500.3	1380.8	1422.2	1427.9
67.5°	15691.2	11848.5	1828.9	1136.1	1106.3	1368.2	1651.9	1532.5	1329.1	1359.0	1340.6
70°	12682.5	9393.6	1410.7	1074.1	1056.9	1363.6	1714.0	1512.9	1272.8	1279.7	1230.3
72.5°	8745.7	6405.6	1147.6	1016.7	985.7	1243.0	1670.3	1464.7	1225.7	1172.9	1107.4
75°	4756.0	3438.3	975.3	956.9	860.4	1091.3	1589.9	1430.2	1183.2	1113.2	1076.4
77.5°	1871.4	1426.8	846.7	875.4	752.5	963.8	1500.3	1364.8	1124.7	1032.8	1014.4
80°	763.9	728.3	701.9	757.0	646.8	843.2	1392.3	1287.8	1054.6	958.1	921.3
82.5°	433.1	452.6	545.7	597.4	525.0	776.6	1340.6	1225.7	970.7	858.1	814.5
85°	221.7	265.4	380.2	428.5	386.0	660.5	1234.9	1073.0	778.9	657.1	660.5
87.5°	106.8	148.2	240.1	268.8	250.4	477.9	922.5	777.7	606.6	480.2	465.3
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)