

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: P319161

Luminaire Tested: **GAN-SA7B-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319161
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-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 29506 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

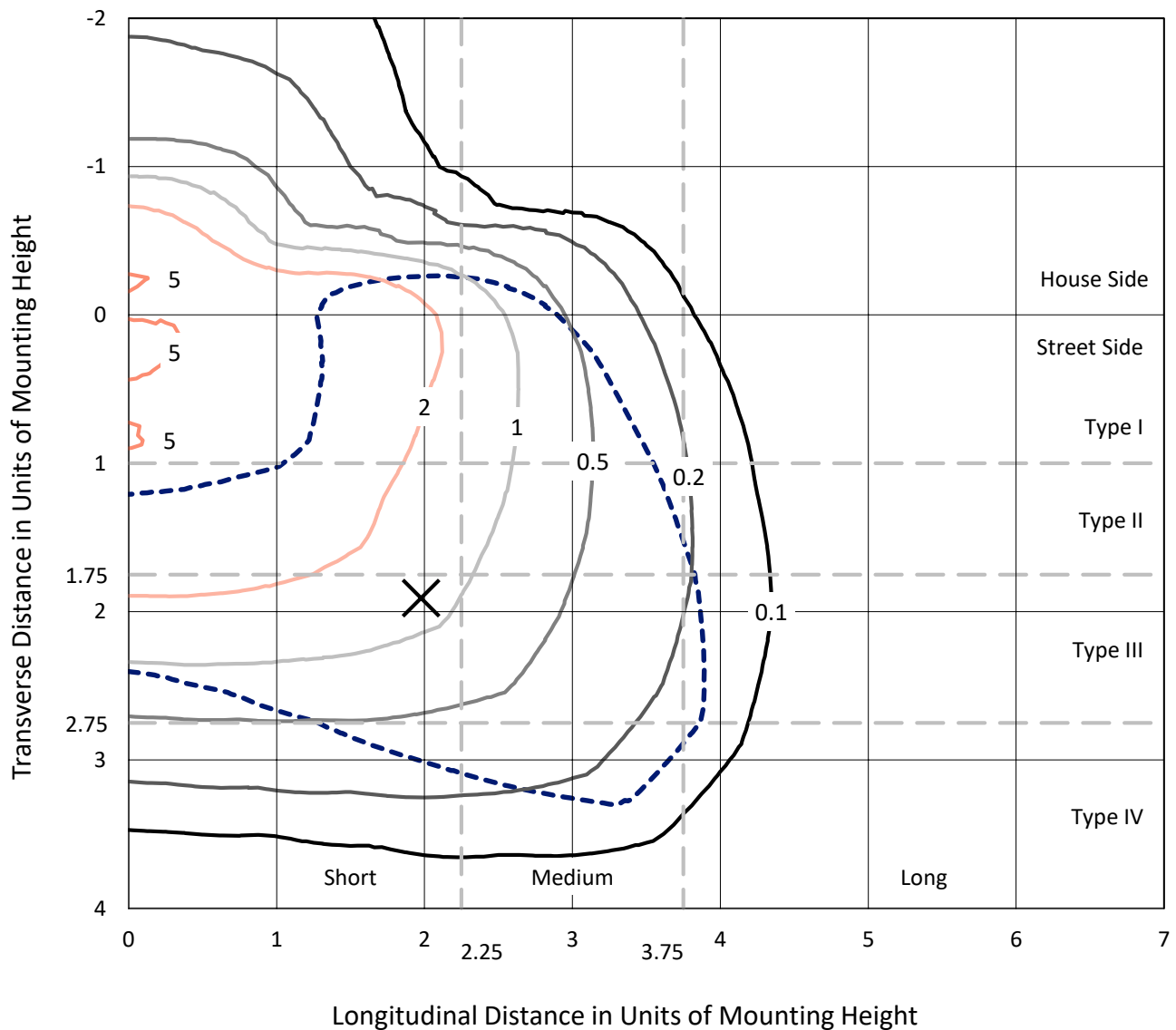


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Iso-Footcandle Lines of Horizontal Illumination

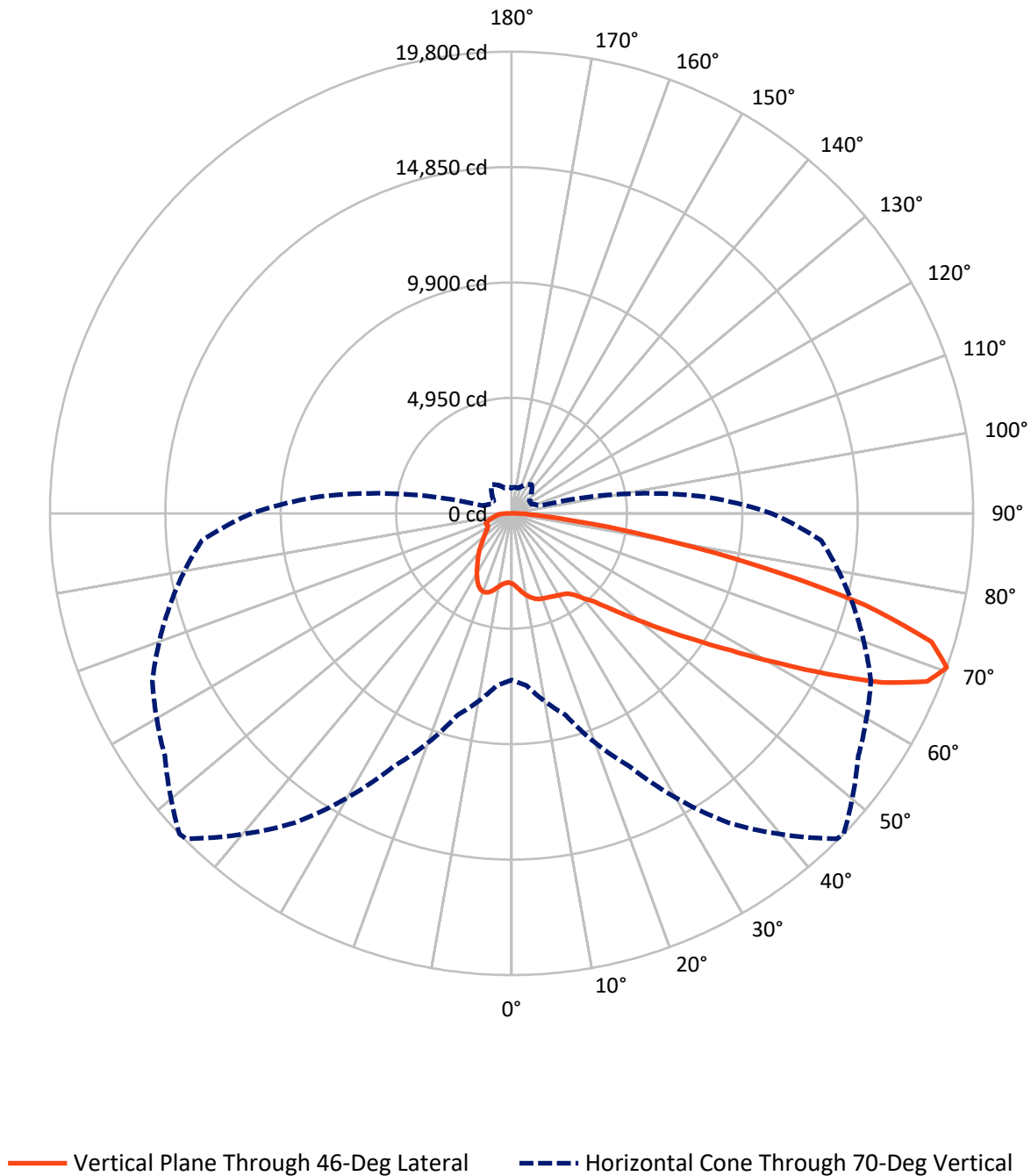
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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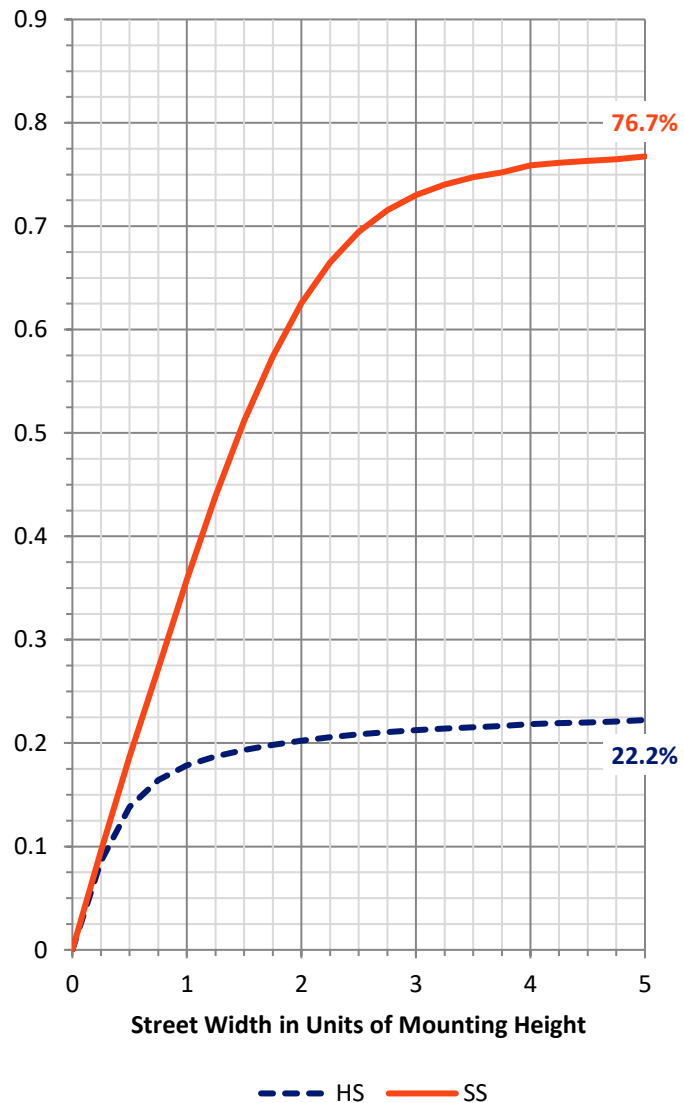
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6762.7	0.0	6762.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	22743.3	0.0	22743.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	29506.0	0.0	29506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	1.0
10°-20°	1021.0	3.5
20°-30°	1702.4	5.8
30°-40°	2415.8	8.2
40°-50°	3553.5	12.0
50°-60°	6017.8	20.4
60°-70°	8542.2	29.0
70°-80°	5189.5	17.6
80°-90°	757.3	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°	29506.0	100.0
0°-180°	29506.0	100.0

Coefficient of Utilization



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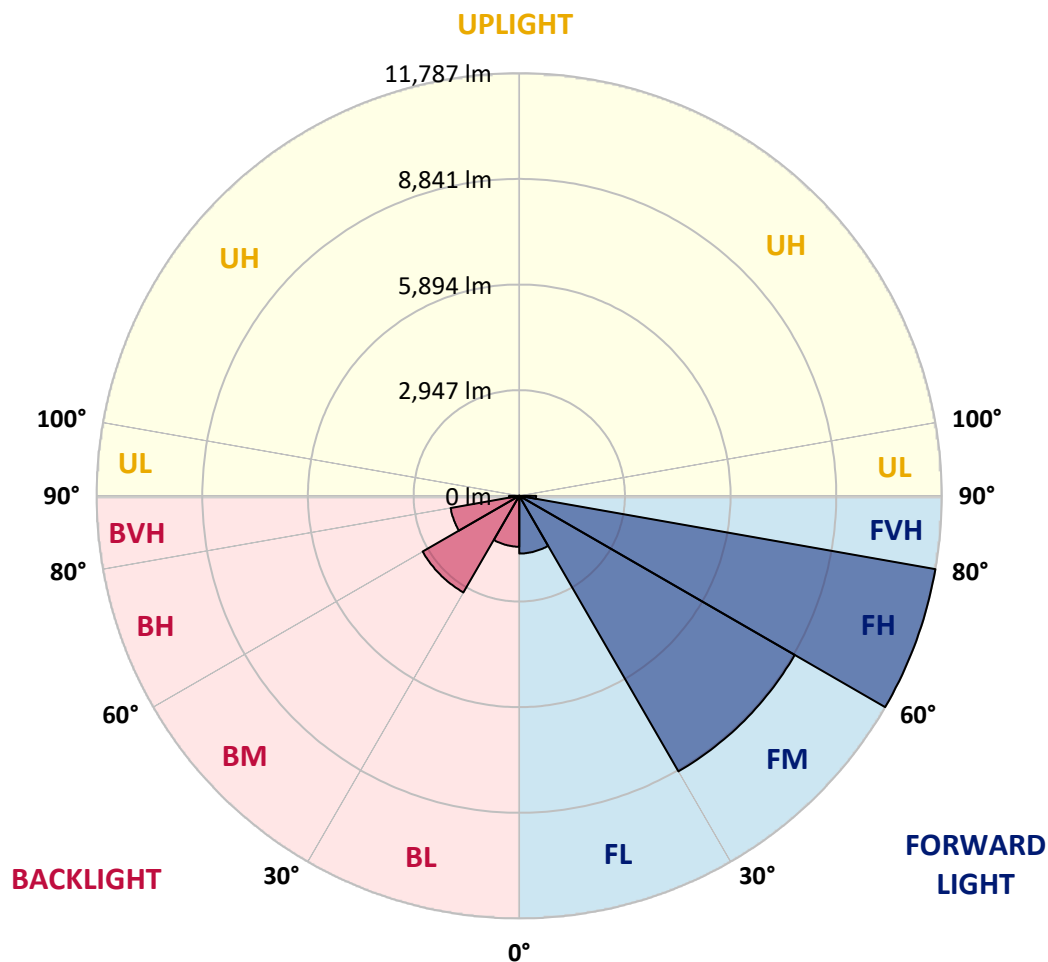
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1610.0	5.5			
FM	(30°-60°)	8874.1	30.1			
FH	(60°-80°)	11787.5	39.9			G4/12000
FVH	(80°-90°)	471.8	1.6			G3/500
BL	(0°-30°)	1419.8	4.8	B3/2500		
BM	(30°-60°)	3113.0	10.6	B3/5000		
BH	(60°-80°)	1944.2	6.6	B3/2500		G3/2500
BVH	(80°-90°)	285.6	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1
2.5°	3156.5	3158.6	3162.6	3152.5	3124.2	3116.1	3113.1	3083.8	3064.7	3036.4	3012.1
5°	3409.0	3411.0	3404.9	3376.7	3314.1	3267.6	3263.6	3196.9	3136.3	3071.7	3023.2
7.5°	3672.5	3675.6	3656.4	3602.9	3515.0	3434.2	3429.2	3338.3	3246.4	3148.5	3075.8
10°	3905.8	3893.7	3862.4	3787.6	3683.6	3584.7	3580.6	3485.7	3379.7	3261.6	3164.6
12.5°	4061.3	4051.2	4010.8	3919.9	3805.8	3714.9	3706.9	3619.0	3516.0	3386.8	3270.6
15°	4147.1	4154.2	4099.7	3996.7	3885.6	3808.9	3801.8	3739.2	3647.3	3517.0	3383.7
17.5°	4158.2	4164.3	4111.8	4009.8	3918.9	3866.4	3863.4	3822.0	3755.3	3630.1	3490.8
20°	4093.6	4097.6	4054.2	3970.4	3910.8	3894.7	3893.7	3875.5	3826.0	3714.9	3579.6
22.5°	3999.7	4002.7	3971.4	3910.8	3890.6	3915.9	3923.0	3915.9	3880.5	3776.5	3649.3
25°	3976.5	3974.5	3942.1	3880.5	3897.7	3951.2	3960.3	3963.3	3939.1	3848.2	3738.2
27.5°	4088.6	4081.5	4019.9	3920.9	3932.0	3996.7	4008.8	4038.1	4022.9	3943.1	3839.1
30°	4412.7	4400.6	4274.4	4074.4	4019.9	4053.2	4068.4	4114.8	4117.8	4051.2	3973.4
32.5°	4960.0	4944.8	4718.7	4361.2	4168.3	4110.8	4124.9	4194.6	4231.9	4180.4	4096.6
35°	5651.7	5634.5	5337.6	4848.9	4416.7	4220.8	4230.9	4286.5	4361.2	4288.5	4177.4
37.5°	6372.7	6331.3	6045.5	5422.5	4811.6	4456.1	4456.1	4463.2	4498.5	4347.1	4272.3
40°	7089.6	7048.2	6789.7	6097.0	5322.5	4826.7	4803.5	4647.0	4618.7	4488.4	4463.2
42.5°	7756.0	7743.9	7591.4	6859.4	5922.3	5191.2	5158.9	4893.3	4899.4	4818.6	4819.6
45°	8464.9	8464.9	8340.7	7628.8	6621.1	5776.9	5744.6	5353.8	5414.4	5377.0	5466.9
47.5°	9043.5	9061.7	9044.5	8430.6	7433.9	6521.1	6462.5	5992.0	6161.6	6289.9	6551.4
50°	9634.2	9662.5	9665.5	9310.1	8416.4	7405.6	7339.0	6839.2	7217.8	7585.4	8099.4
52.5°	10491.5	10555.1	10301.7	10187.6	9620.1	8455.8	8390.2	7928.7	8560.8	9076.8	9962.4
55°	11286.2	11230.7	11049.9	11120.6	10908.5	9651.4	9601.9	9197.0	10057.3	10727.8	11877.9
57.5°	11716.4	11712.3	11894.1	12197.0	12298.0	11125.6	11084.2	10690.4	11744.6	12248.5	13676.3
60°	12221.2	12228.3	12678.7	13366.3	13782.3	12961.4	12943.2	12644.3	13383.5	13668.2	15087.0
62.5°	12291.9	12419.2	13194.7	14378.1	15171.8	15106.2	15146.5	14404.4	14849.7	14801.2	16140.2
65°	11479.1	11646.7	13050.3	14684.1	16553.2	17451.8	17489.2	16174.5	16005.9	15769.6	16516.8
67.5°	9812.9	10061.3	11586.1	14018.6	17008.6	19185.6	19238.1	17546.8	16965.1	16097.7	15610.0
70°	7141.1	7416.8	8951.6	11972.8	16196.7	19740.0	19799.6	18153.6	17001.5	15163.7	13325.9
72.5°	4313.7	4529.8	5795.1	8814.3	13670.3	18730.2	18836.2	17384.2	15522.2	12844.3	9840.2
75°	1894.3	2035.7	2802.1	5079.1	9786.7	15496.9	15629.2	14880.0	12612.0	9334.3	5816.3
77.5°	806.8	847.2	1149.1	2206.3	5532.5	10589.5	10771.2	10872.2	8556.8	5079.1	2457.8
80°	502.9	519.0	650.3	998.7	2589.0	5947.5	6143.4	6396.9	4249.1	1867.1	858.3
82.5°	306.0	324.1	432.2	603.8	1348.0	2696.1	2790.0	2968.7	1649.0	806.8	444.3
85°	183.8	196.9	264.6	381.7	767.4	1060.3	1059.2	1171.3	776.5	519.0	234.3
87.5°	87.8	97.9	141.4	197.9	386.7	397.8	372.6	422.1	471.6	340.3	118.1
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°	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1
2.5°	3004.1	3000.0	2986.9	2976.8	2974.8	2968.7	2963.7	2966.7	2970.7	2971.8	2971.8
5°	3003.1	2991.9	2974.8	2967.7	2976.8	2988.9	3004.1	3024.3	3036.4	3045.5	3051.5
7.5°	3051.5	3030.3	3011.1	3007.1	3025.3	3057.6	3091.9	3134.3	3163.6	3183.8	3187.8
10°	3132.3	3106.1	3086.9	3090.9	3123.2	3169.7	3218.1	3272.7	3317.1	3344.4	3346.4
12.5°	3225.2	3200.0	3181.8	3198.9	3252.5	3309.0	3359.5	3407.0	3447.4	3474.6	3474.6
15°	3332.2	3314.1	3292.9	3332.2	3404.9	3455.4	3476.6	3499.9	3522.1	3542.3	3538.2
17.5°	3435.2	3418.1	3407.0	3453.4	3529.1	3552.4	3538.2	3521.1	3521.1	3532.2	3534.2
20°	3524.1	3508.9	3516.0	3561.5	3600.8	3576.6	3524.1	3469.6	3447.4	3453.4	3459.5
22.5°	3601.8	3594.8	3616.0	3637.2	3608.9	3524.1	3427.2	3353.4	3326.2	3324.2	3326.2
25°	3692.7	3691.7	3718.0	3679.6	3554.4	3397.9	3267.6	3195.9	3180.8	3192.9	3213.1
27.5°	3805.8	3816.9	3830.1	3689.7	3443.3	3207.0	3074.7	3025.3	3040.4	3069.7	3088.9
30°	3950.2	3980.5	3952.2	3664.5	3283.8	2988.9	2862.7	2848.6	2890.0	2931.4	2951.6
32.5°	4090.6	4138.0	4069.4	3598.8	3077.8	2757.7	2659.7	2655.7	2706.2	2746.6	2774.8
35°	4203.7	4297.6	4157.2	3468.6	2839.5	2544.6	2472.9	2445.7	2463.8	2511.3	2543.6
37.5°	4351.1	4507.6	4217.8	3269.6	2581.0	2368.9	2285.1	2222.5	2206.3	2225.5	2241.7
40°	4620.7	4827.7	4246.1	2991.9	2328.5	2193.2	2108.4	2016.5	1952.9	1906.4	1907.5
42.5°	5061.0	5244.7	4227.9	2654.7	2095.3	2021.6	1925.6	1819.6	1716.6	1611.6	1603.5
45°	5775.9	5864.7	4173.4	2297.2	1890.3	1841.8	1752.0	1645.9	1508.6	1389.4	1378.3
47.5°	6920.0	6723.0	4088.6	1985.2	1709.5	1689.3	1606.5	1484.4	1339.0	1243.0	1234.9
50°	8480.0	7962.0	4047.2	1736.8	1550.0	1556.1	1488.4	1359.1	1221.8	1151.1	1143.1
52.5°	10346.1	9405.0	4126.9	1544.9	1421.8	1443.0	1392.5	1271.3	1156.2	1100.6	1092.6
55°	12281.8	10899.5	4212.8	1405.6	1300.6	1342.0	1324.8	1224.9	1120.8	1069.3	1062.3
57.5°	13938.9	12015.2	4041.1	1292.5	1192.5	1257.2	1272.3	1195.6	1102.7	1056.2	1048.1
60°	14982.0	12464.6	3590.7	1186.5	1106.7	1189.5	1242.0	1187.5	1109.7	1105.7	1099.6
62.5°	15476.7	12425.2	2915.2	1102.7	1053.2	1160.2	1264.2	1232.9	1190.5	1226.9	1229.9
65°	15254.6	11831.5	2171.0	1047.1	1014.8	1171.3	1330.9	1318.8	1213.7	1250.1	1255.1
67.5°	13792.4	10414.8	1607.6	998.7	972.4	1202.6	1452.0	1347.0	1168.3	1194.6	1178.4
70°	11147.9	8256.9	1240.0	944.1	929.0	1198.6	1506.6	1329.9	1118.8	1124.9	1081.5
72.5°	7687.4	5630.5	1008.8	893.6	866.4	1092.6	1468.2	1287.5	1077.4	1031.0	973.4
75°	4180.4	3022.2	857.3	841.1	756.3	959.3	1397.5	1257.2	1040.1	978.5	946.2
77.5°	1644.9	1254.1	744.2	769.4	661.4	847.2	1318.8	1199.6	988.6	907.8	891.6
80°	671.5	640.2	617.0	665.4	568.5	741.2	1223.8	1132.0	927.0	842.1	809.8
82.5°	380.7	397.8	479.6	525.1	461.5	682.6	1178.4	1077.4	853.3	754.3	715.9
85°	194.9	233.3	334.2	376.6	339.3	580.6	1085.5	943.1	684.6	577.6	580.6
87.5°	93.9	130.3	211.0	236.3	220.1	420.1	810.8	683.6	533.2	422.1	409.0
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)