

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: P318960

Luminaire Tested: **GAN-SA6B-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318960
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-SA6B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 28383 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

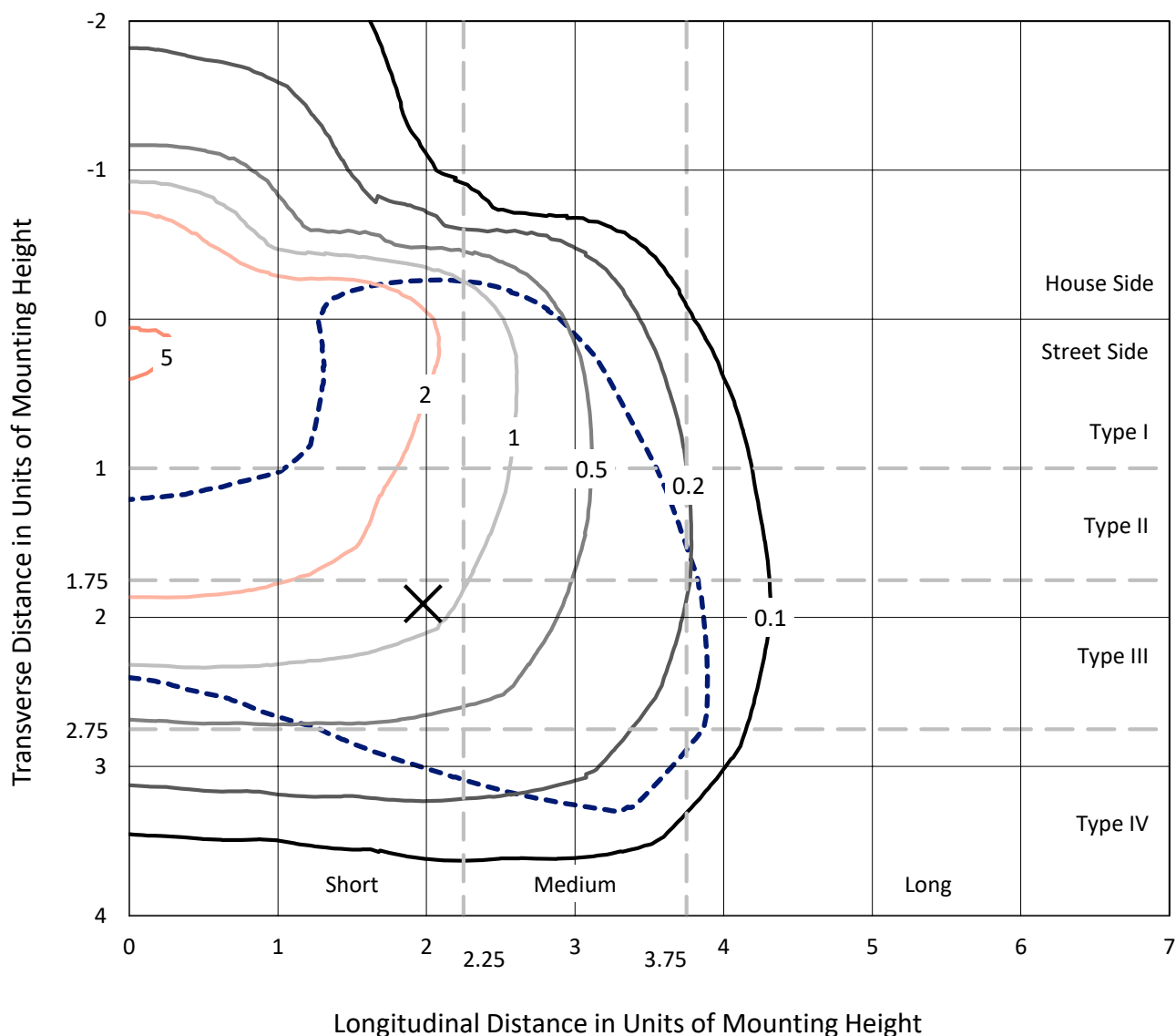
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

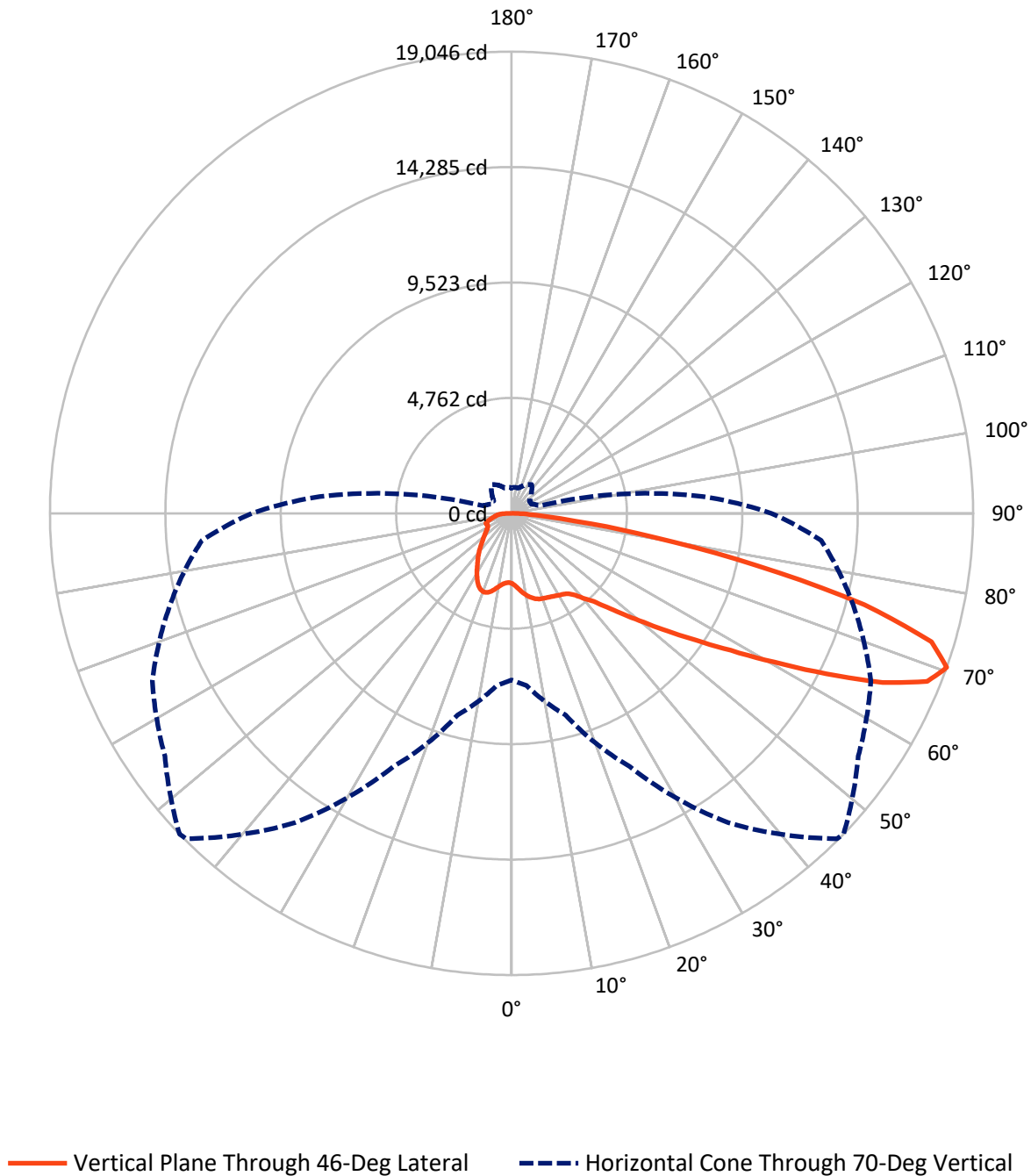
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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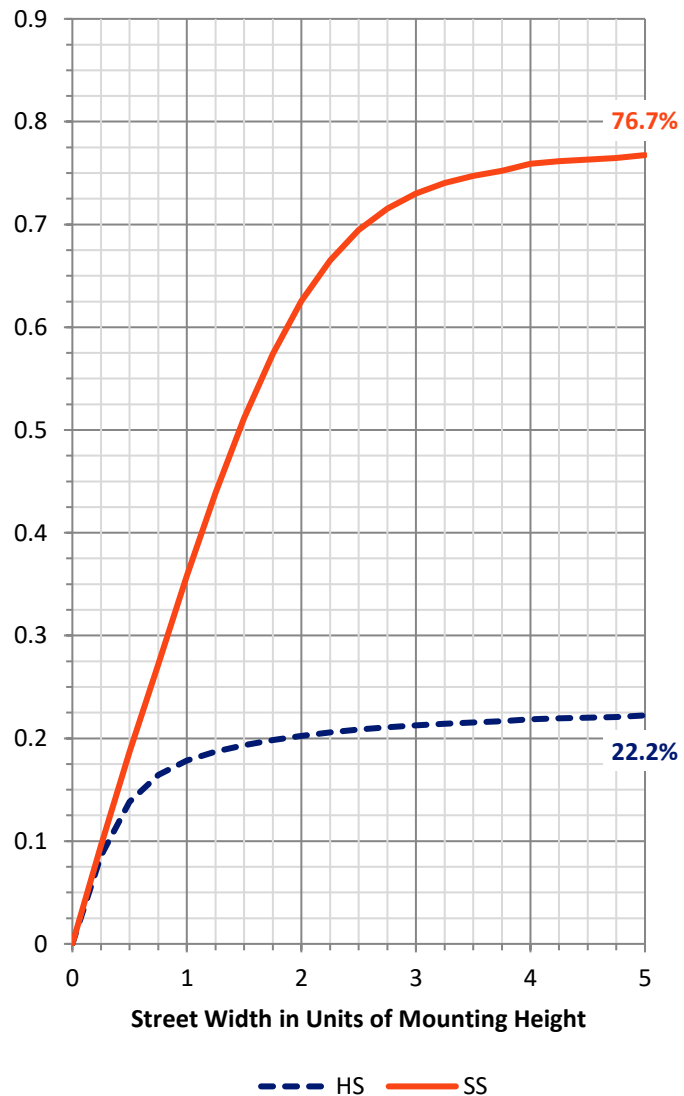
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6505.3	0.0	6505.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21877.7	0.0	21877.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	28383.0	0.0	28383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	1.0
10°-20°	982.1	3.5
20°-30°	1637.6	5.8
30°-40°	2323.8	8.2
40°-50°	3418.3	12.0
50°-60°	5788.8	20.4
60°-70°	8217.1	29.0
70°-80°	4992.0	17.6
80°-90°	728.5	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°	28383.0	100.0
0°-180°	28383.0	100.0

Coefficient of Utilization



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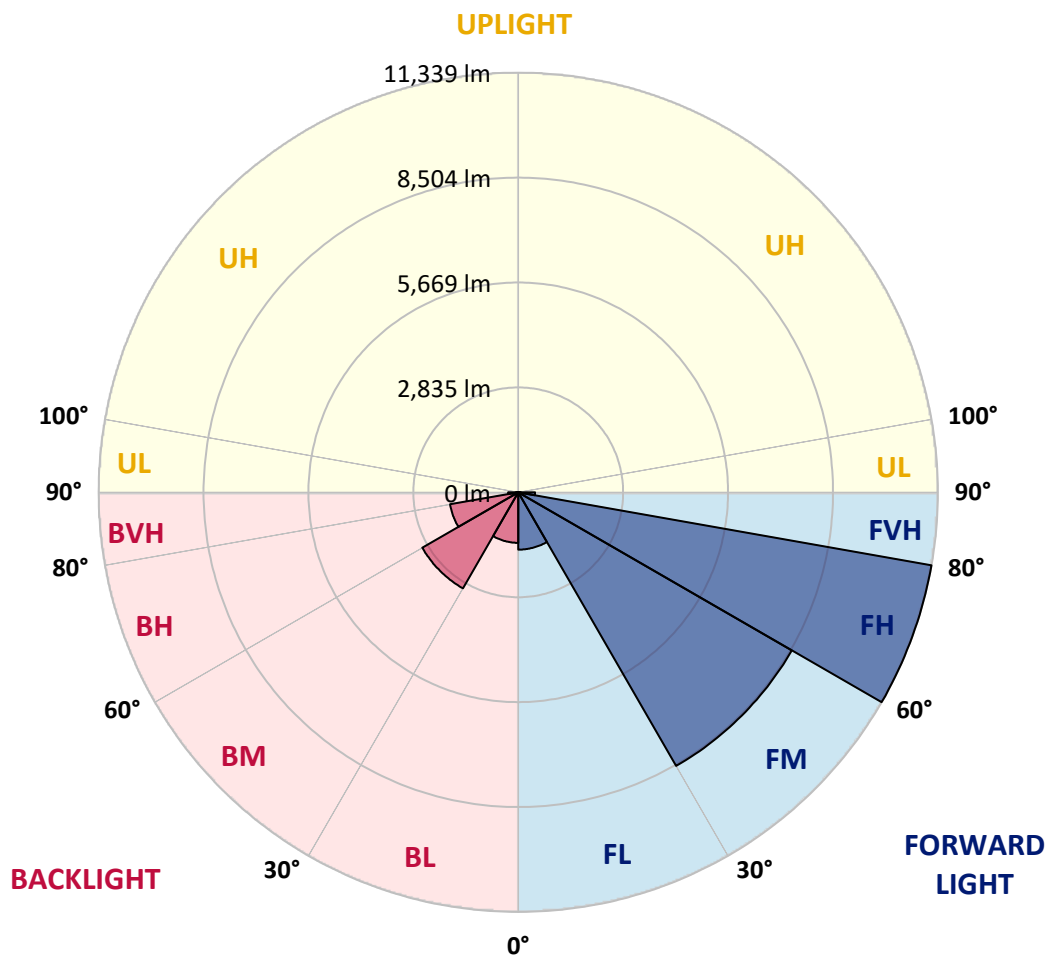
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1548.7	5.5			
FM	(30°-60°)	8536.3	30.1			
FH	(60°-80°)	11338.8	39.9			G4/12000
FVH	(80°-90°)	453.8	1.6			G3/500
BL	(0°-30°)	1365.8	4.8	B3/2500		
BM	(30°-60°)	2994.6	10.6	B3/5000		
BH	(60°-80°)	1870.2	6.6	B3/2500		G3/2500
BVH	(80°-90°)	274.7	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7
2.5°	3036.4	3038.3	3042.2	3032.5	3005.3	2997.5	2994.6	2966.5	2948.0	2920.8	2897.5
5°	3279.2	3281.2	3275.4	3248.2	3187.9	3143.2	3139.4	3075.3	3017.0	2954.8	2908.2
7.5°	3532.8	3535.7	3517.2	3465.7	3381.2	3303.5	3298.7	3211.2	3122.9	3028.6	2958.7
10°	3757.1	3745.5	3715.4	3643.5	3543.4	3448.2	3444.4	3353.1	3251.1	3137.4	3044.2
12.5°	3906.7	3897.0	3858.2	3770.7	3661.0	3573.6	3565.8	3481.3	3382.2	3257.9	3146.2
15°	3989.3	3996.1	3943.6	3844.6	3737.7	3663.9	3657.1	3596.9	3508.5	3383.2	3255.0
17.5°	4000.0	4005.8	3955.3	3857.2	3769.8	3719.3	3716.3	3676.5	3612.4	3492.0	3357.9
20°	3937.8	3941.7	3899.9	3819.3	3762.0	3746.4	3745.5	3728.0	3680.4	3573.6	3443.4
22.5°	3847.5	3850.4	3820.3	3762.0	3742.6	3766.8	3773.6	3766.8	3732.9	3632.8	3510.4
25°	3825.1	3823.2	3792.1	3732.9	3749.4	3800.8	3809.6	3812.5	3789.2	3701.8	3595.9
27.5°	3932.9	3926.1	3866.9	3771.7	3782.4	3844.6	3856.2	3884.4	3869.8	3793.1	3693.0
30°	4244.7	4233.1	4111.7	3919.3	3866.9	3898.9	3913.5	3958.2	3961.1	3897.0	3822.2
32.5°	4771.2	4756.6	4539.1	4195.2	4009.7	3954.3	3967.9	4034.9	4070.9	4021.3	3940.7
35°	5436.6	5420.1	5134.5	4664.4	4248.6	4060.2	4069.9	4123.3	4195.2	4125.3	4018.4
37.5°	6130.1	6090.3	5815.4	5216.1	4628.4	4286.5	4286.5	4293.3	4327.3	4181.6	4109.7
40°	6819.8	6779.9	6531.3	5864.9	5119.9	4643.0	4620.7	4470.1	4442.9	4317.6	4293.3
42.5°	7460.8	7449.2	7302.5	6598.3	5696.9	4993.6	4962.6	4707.1	4712.9	4635.2	4636.2
45°	8142.7	8142.7	8023.2	7338.5	6369.1	5557.0	5525.9	5150.0	5208.3	5172.4	5258.8
47.5°	8699.3	8716.8	8700.3	8109.7	7151.0	6272.9	6216.6	5763.9	5927.1	6050.5	6302.0
50°	9267.5	9294.7	9297.6	8955.7	8096.1	7123.8	7059.7	6578.9	6943.1	7296.7	7791.1
52.5°	10092.2	10153.4	9909.6	9799.8	9253.9	8134.0	8070.8	7626.9	8235.0	8731.4	9583.2
55°	10856.6	10803.2	10629.3	10697.3	10493.4	9284.0	9236.4	8846.9	9674.5	10319.5	11425.8
57.5°	11270.4	11266.5	11441.4	11732.8	11829.9	10702.2	10662.4	10283.6	11297.6	11782.3	13155.8
60°	11756.1	11762.9	12196.1	12857.6	13257.8	12468.1	12450.6	12163.1	12874.1	13148.0	14512.8
62.5°	11824.1	11946.5	12692.5	13830.9	14594.3	14531.2	14570.1	13856.1	14284.5	14237.9	15525.9
65°	11042.2	11203.4	12553.6	14125.2	15923.1	16787.6	16823.6	15558.9	15396.7	15169.4	15888.2
67.5°	9439.5	9678.4	11145.1	13485.1	16361.2	18455.4	18505.9	16878.9	16319.4	15485.1	15015.9
70°	6869.3	7134.5	8610.9	11517.2	15580.3	18988.7	19046.0	17462.7	16354.4	14586.6	12818.7
72.5°	4149.6	4357.4	5574.5	8478.8	13150.0	18017.3	18119.3	16722.5	14931.4	12355.4	9465.7
75°	1822.2	1958.2	2695.5	4885.8	9414.2	14907.1	15034.4	14313.6	12132.0	8979.0	5594.9
77.5°	776.1	815.0	1105.4	2122.4	5322.0	10186.4	10361.3	10458.4	8231.1	4885.8	2364.2
80°	483.7	499.3	625.5	960.7	2490.5	5721.2	5909.6	6153.4	4087.4	1796.0	825.6
82.5°	294.3	311.8	415.7	580.9	1296.7	2593.5	2683.8	2855.7	1586.2	776.1	427.4
85°	176.8	189.4	254.5	367.2	738.2	1019.9	1018.9	1126.8	747.0	499.3	225.4
87.5°	84.5	94.2	136.0	190.4	372.0	382.7	358.4	406.0	453.6	327.3	113.6
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°	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7	2891.7
2.5°	2889.7	2885.8	2873.2	2863.5	2861.6	2855.7	2850.9	2853.8	2857.7	2858.6	2858.6
5°	2888.8	2878.1	2861.6	2854.8	2863.5	2875.2	2889.7	2909.2	2920.8	2929.6	2935.4
7.5°	2935.4	2915.0	2896.5	2892.6	2910.1	2941.2	2974.2	3015.0	3043.2	3062.6	3066.5
10°	3013.1	2987.8	2969.4	2973.3	3004.3	3049.0	3095.7	3148.1	3190.8	3217.1	3219.0
12.5°	3102.5	3078.2	3060.7	3077.2	3128.7	3183.1	3231.6	3277.3	3316.1	3342.4	3342.4
15°	3205.4	3187.9	3167.5	3205.4	3275.4	3323.9	3344.3	3366.7	3388.0	3407.5	3403.6
17.5°	3304.5	3288.0	3277.3	3322.0	3394.8	3417.2	3403.6	3387.1	3387.1	3397.7	3399.7
20°	3390.0	3375.4	3382.2	3425.9	3463.8	3440.5	3390.0	3337.5	3316.1	3322.0	3327.8
22.5°	3464.8	3458.0	3478.4	3498.8	3471.6	3390.0	3296.7	3225.8	3199.6	3197.6	3199.6
25°	3552.2	3551.2	3576.5	3539.6	3419.1	3268.6	3143.2	3074.3	3059.7	3071.4	3090.8
27.5°	3661.0	3671.7	3684.3	3549.3	3312.3	3085.0	2957.7	2910.1	2924.7	2952.9	2971.3
30°	3799.9	3829.0	3801.8	3525.0	3158.8	2875.2	2753.7	2740.1	2780.0	2819.8	2839.2
32.5°	3934.9	3980.5	3914.5	3461.8	2960.6	2652.7	2558.5	2554.6	2603.2	2642.0	2669.2
35°	4043.7	4134.0	3999.0	3336.5	2731.4	2447.8	2378.8	2352.6	2370.1	2415.7	2446.8
37.5°	4185.5	4336.1	4057.3	3145.2	2482.7	2278.8	2198.1	2137.9	2122.4	2140.8	2156.4
40°	4444.8	4644.0	4084.5	2878.1	2239.9	2109.7	2028.2	1939.8	1878.6	1833.9	1834.9
42.5°	4868.3	5045.1	4067.0	2553.6	2015.5	1944.6	1852.3	1750.4	1651.3	1550.3	1542.5
45°	5556.1	5641.5	4014.5	2209.8	1818.3	1771.7	1685.3	1583.3	1451.2	1336.6	1325.9
47.5°	6656.6	6467.2	3932.9	1909.6	1644.5	1625.0	1545.4	1427.9	1288.0	1195.7	1187.9
50°	8157.3	7659.0	3893.1	1670.7	1491.0	1496.8	1431.8	1307.4	1175.3	1107.3	1099.6
52.5°	9952.3	9047.0	3969.9	1486.1	1367.6	1388.0	1339.5	1222.9	1112.2	1058.8	1051.0
55°	11814.4	10484.6	4052.4	1352.1	1251.1	1290.9	1274.4	1178.2	1078.2	1028.6	1021.8
57.5°	13408.3	11557.9	3887.3	1243.3	1147.1	1209.3	1223.9	1150.1	1060.7	1016.0	1008.2
60°	14411.7	11990.2	3454.1	1141.3	1064.6	1144.2	1194.7	1142.3	1067.5	1063.6	1057.8
62.5°	14887.7	11952.3	2804.3	1060.7	1013.1	1116.1	1216.1	1186.0	1145.2	1180.2	1183.1
65°	14674.0	11381.2	2088.4	1007.3	976.2	1126.8	1280.2	1268.6	1167.5	1202.5	1207.4
67.5°	13267.5	10018.4	1546.4	960.7	935.4	1156.9	1396.8	1295.8	1123.8	1149.1	1133.6
70°	10723.6	7942.6	1192.8	908.2	893.6	1153.0	1449.2	1279.3	1076.2	1082.1	1040.3
72.5°	7394.8	5416.2	970.4	859.6	833.4	1051.0	1412.3	1238.5	1036.4	991.7	936.4
75°	4021.3	2907.2	824.7	809.1	727.5	922.8	1344.3	1209.3	1000.5	941.2	910.1
77.5°	1582.3	1206.4	715.9	740.2	636.2	815.0	1268.6	1153.9	950.9	873.2	857.7
80°	645.9	615.8	593.5	640.1	546.9	713.0	1177.3	1088.9	891.7	810.1	779.0
82.5°	366.2	382.7	461.4	505.1	443.9	656.6	1133.6	1036.4	820.8	725.6	688.7
85°	187.5	224.4	321.5	362.3	326.4	558.5	1044.2	907.2	658.6	555.6	558.5
87.5°	90.3	125.3	203.0	227.3	211.8	404.1	780.0	657.6	512.9	406.0	393.4
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)