

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: P319937

Luminaire Tested: **GAN-SA3D-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18824 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

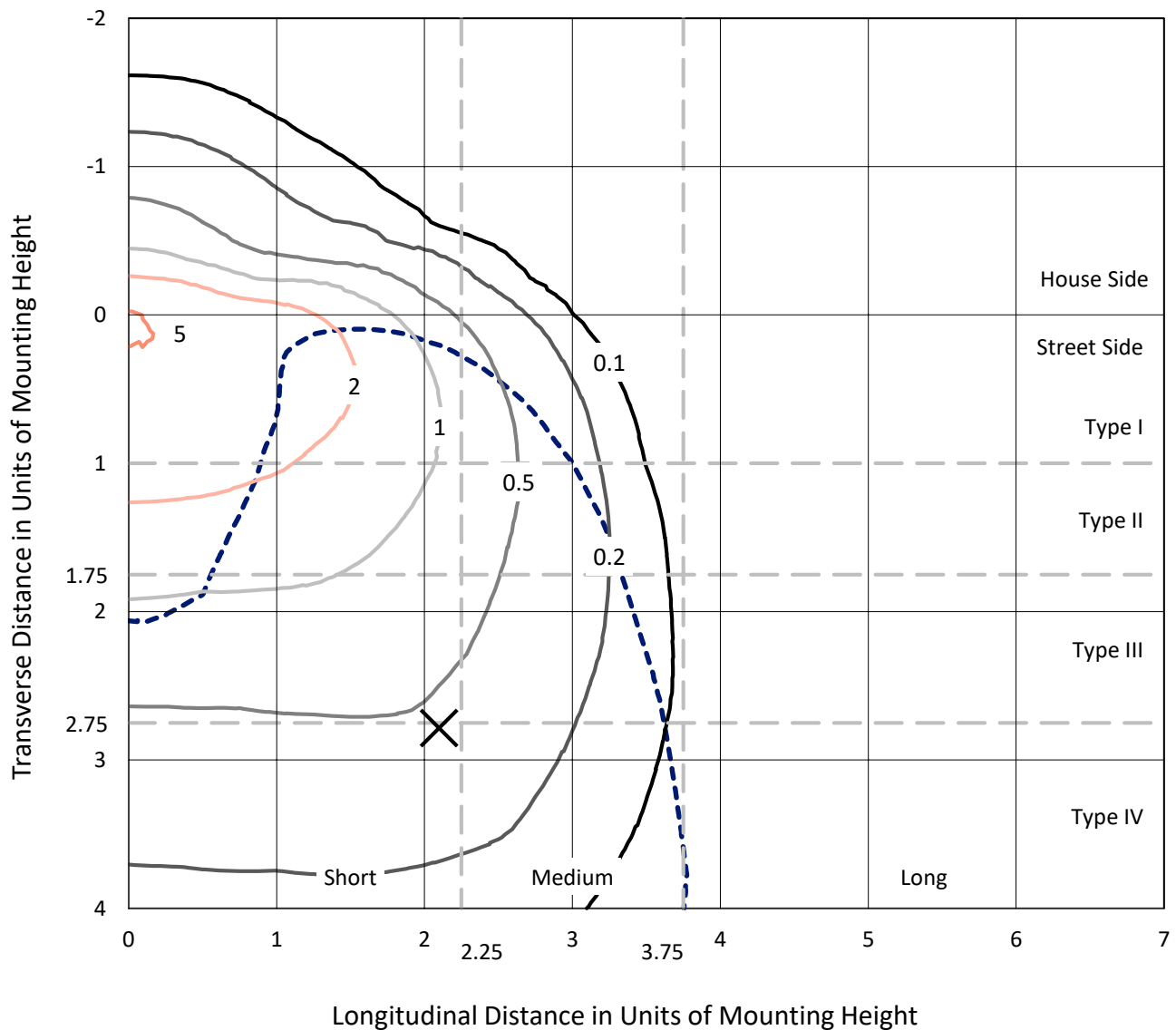
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

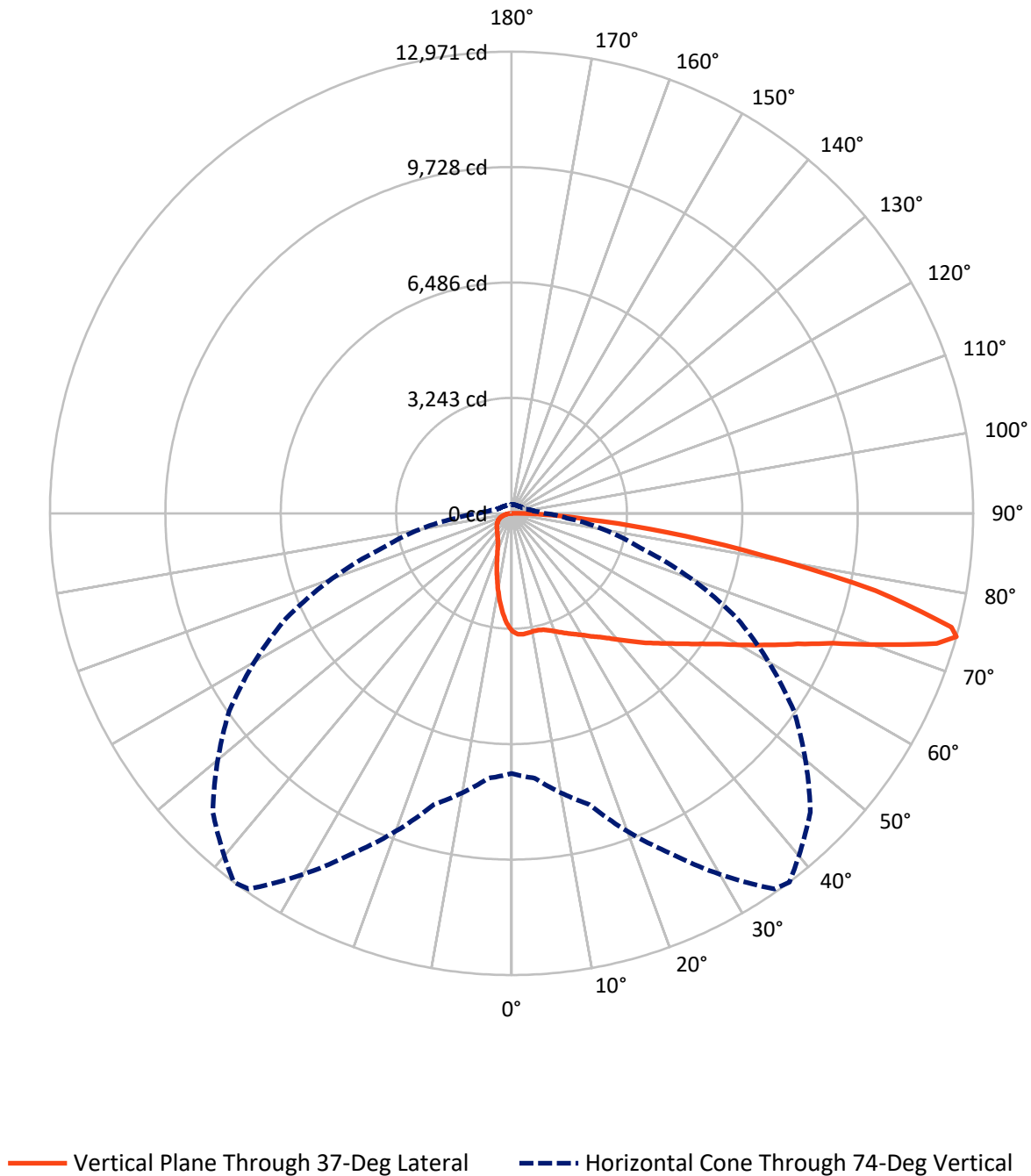
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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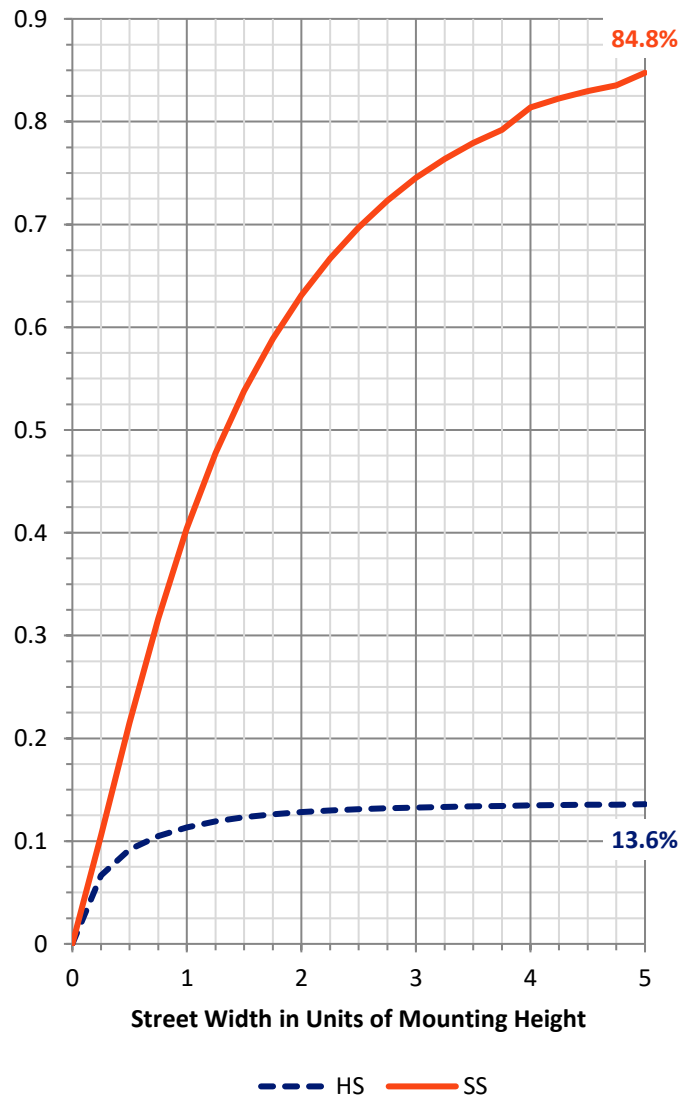
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2590.1	0.0	2590.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	16233.9	0.0	16233.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	18824.0	0.0	18824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.1	1.6
10°-20°	748.7	4.0
20°-30°	1153.5	6.1
30°-40°	1677.4	8.9
40°-50°	2468.9	13.1
50°-60°	3467.1	18.4
60°-70°	4388.3	23.3
70°-80°	3864.0	20.5
80°-90°	764.0	4.1
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°	18824.0	100.0
0°-180°	18824.0	100.0

Coefficient of Utilization



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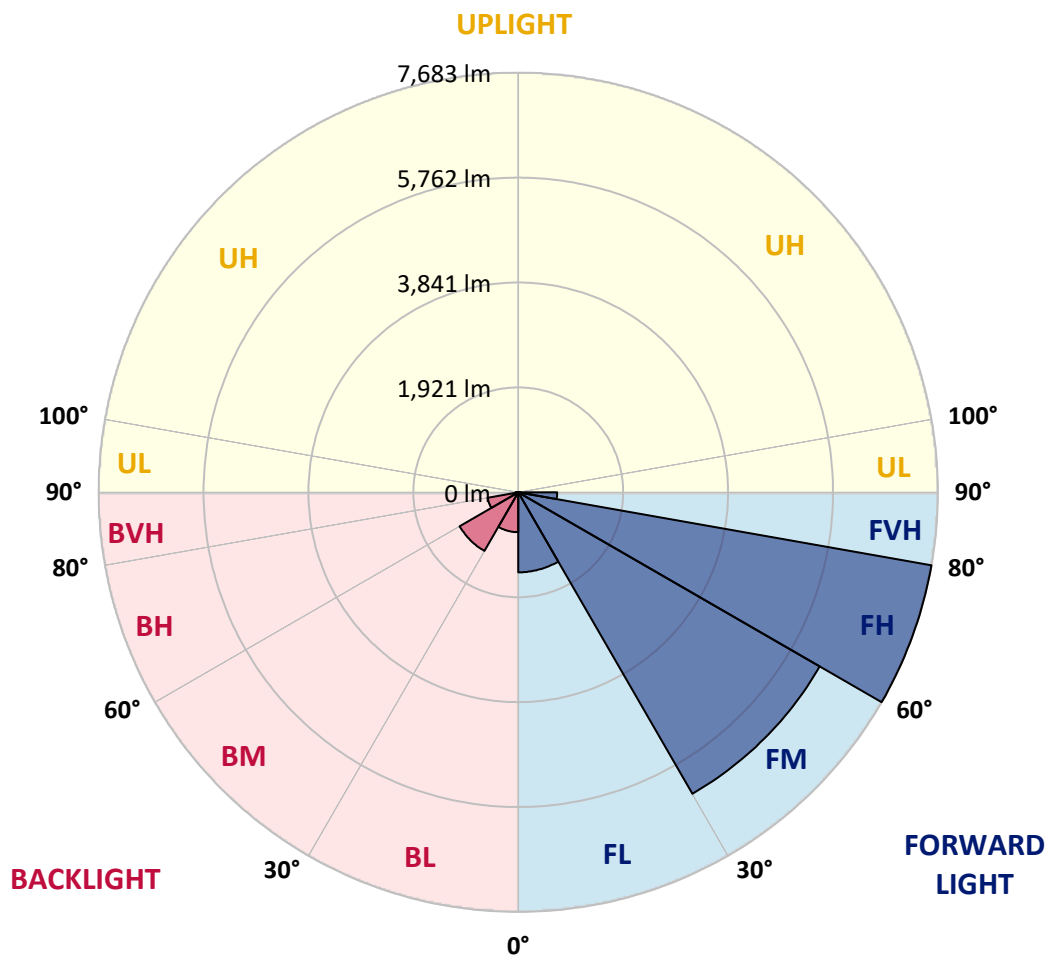
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1464.7	7.8			
FM	(30°-60°)	6374.0	33.9			
FH	(60°-80°)	7683.0	40.8			G4/12000
FVH	(80°-90°)	712.3	3.8			G4/750
BL	(0°-30°)	729.6	3.9	B2/1000		
BM	(30°-60°)	1239.4	6.6	B2/2500		
BH	(60°-80°)	569.3	3.0	B2/1000		G2/1000
BVH	(80°-90°)	51.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7
2.5°	3430.1	3430.8	3430.1	3424.8	3412.2	3401.6	3393.0	3380.4	3352.5	3331.3	3299.5
5°	3462.6	3458.6	3456.0	3446.0	3426.1	3414.2	3397.6	3373.7	3328.0	3285.6	3233.8
7.5°	3447.3	3442.7	3436.7	3424.8	3402.3	3392.3	3369.1	3337.9	3282.9	3227.2	3152.9
10°	3400.3	3398.9	3396.3	3393.6	3374.4	3366.4	3345.2	3312.1	3257.7	3190.1	3103.2
12.5°	3347.9	3351.2	3361.8	3375.7	3367.1	3363.1	3349.9	3327.3	3271.6	3198.7	3093.9
15°	3314.7	3324.0	3352.5	3389.0	3396.3	3395.0	3391.6	3377.1	3318.0	3237.1	3115.1
17.5°	3303.5	3318.7	3373.1	3433.4	3454.6	3459.3	3460.6	3435.4	3369.8	3284.2	3137.0
20°	3324.0	3343.2	3422.8	3505.7	3539.5	3542.2	3536.2	3492.4	3418.8	3324.7	3149.0
22.5°	3386.3	3403.6	3503.0	3596.5	3635.0	3639.0	3621.1	3554.8	3470.5	3372.4	3165.5
25°	3506.4	3527.6	3627.0	3720.5	3740.4	3741.1	3715.2	3633.0	3538.2	3439.4	3201.3
27.5°	3662.8	3684.1	3773.6	3865.1	3854.5	3848.5	3813.4	3731.1	3626.4	3531.6	3265.0
30°	3837.2	3860.4	3945.3	4010.3	3985.1	3973.2	3944.7	3838.6	3749.0	3657.5	3362.5
32.5°	4017.6	4038.8	4113.1	4157.5	4125.7	4120.4	4077.3	3980.5	3908.8	3849.8	3520.3
35°	4202.6	4217.8	4290.8	4316.0	4273.5	4272.2	4260.3	4171.4	4126.3	4154.2	3749.7
37.5°	4391.6	4395.5	4457.9	4459.2	4446.6	4451.9	4464.5	4408.8	4421.4	4508.3	4048.1
40°	4560.0	4570.6	4615.7	4629.6	4651.5	4670.1	4733.1	4696.6	4794.1	4947.9	4419.4
42.5°	4684.6	4705.2	4777.5	4813.3	4884.2	4913.4	5002.3	5036.1	5232.3	5463.1	4861.0
45°	4790.1	4821.9	4937.9	5011.5	5131.6	5182.6	5309.9	5423.3	5727.7	6022.1	5325.8
47.5°	4904.1	4944.6	5089.8	5230.4	5393.5	5451.2	5682.6	5852.3	6256.1	6584.4	5764.1
50°	5071.9	5103.0	5244.9	5465.8	5669.3	5743.6	6063.8	6307.2	6793.2	7120.1	6144.1
52.5°	5305.9	5294.0	5414.0	5723.7	5996.9	6088.4	6471.0	6791.2	7337.6	7604.8	6465.0
55°	5541.3	5521.4	5605.7	5993.6	6378.8	6475.0	6919.2	7277.3	7855.5	8041.1	6711.0
57.5°	5803.3	5765.5	5836.4	6297.9	6813.8	6928.5	7421.2	7793.8	8364.7	8393.9	6867.5
60°	6073.1	6022.1	6101.6	6675.2	7366.1	7501.4	8008.7	8297.8	8844.8	8676.4	6917.9
62.5°	6309.2	6273.4	6396.0	7096.3	7988.8	8137.3	8585.5	8833.5	9318.2	8793.7	6736.2
65°	6515.4	6521.4	6733.6	7569.7	8683.0	8841.5	9247.3	9493.9	9690.9	8724.1	6311.2
67.5°	6761.4	6795.2	7157.3	8193.0	9556.9	9730.7	10210.1	10214.1	9899.1	8315.7	5474.4
70°	7120.1	7189.8	7740.1	9057.6	10799.6	11038.3	11408.3	10637.1	9606.7	7208.3	4307.4
72.5°	7438.4	7568.4	8360.1	10047.0	12314.0	12495.0	12109.1	10393.1	8384.6	5402.1	2683.5
74°	7309.1	7470.2	8472.8	10534.3	12884.3	12971.1	11872.4	9680.9	6990.8	3741.1	1559.6
75°	7030.6	7205.7	8308.4	10529.7	12812.0	12763.6	11300.8	8867.3	5757.5	2551.5	1037.7
77.5°	5674.0	5859.0	7000.8	9024.5	10505.1	10459.4	8681.0	5948.5	2521.7	836.8	527.1
80°	3298.8	3440.0	4345.8	5731.0	7083.7	7166.5	5709.1	2943.4	992.0	470.1	357.4
82.5°	1465.4	1562.9	2099.3	2925.5	4274.9	4381.6	2989.8	1542.3	612.7	285.8	214.8
85°	961.5	1033.7	1274.4	1393.1	2035.6	2108.6	1463.4	1200.8	404.5	157.1	157.8
87.5°	691.6	761.2	946.9	826.9	934.3	884.5	796.4	1111.3	162.5	89.5	53.0
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°	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7	3316.7
2.5°	3285.6	3274.9	3251.1	3206.0	3180.8	3159.6	3124.4	3103.9	3094.6	3093.9	3097.9
5°	3204.0	3179.5	3117.8	3042.2	2981.9	2926.8	2858.5	2817.4	2788.2	2771.0	2775.6
7.5°	3109.2	3070.7	2973.9	2853.2	2756.4	2649.7	2544.2	2481.2	2432.2	2395.7	2402.3
10°	3044.2	2991.1	2849.9	2676.2	2515.1	2359.9	2214.7	2127.8	2058.9	2005.8	2009.8
12.5°	3022.3	2950.7	2755.1	2523.0	2296.9	2084.7	1895.1	1761.8	1690.8	1630.5	1635.2
15°	3025.6	2929.5	2675.5	2385.1	2100.6	1833.4	1603.3	1447.5	1351.4	1309.6	1310.2
17.5°	3028.3	2904.9	2592.0	2237.2	1906.3	1598.7	1348.7	1190.9	1100.0	1061.6	1062.3
20°	3019.7	2865.2	2488.5	2067.5	1703.4	1383.2	1141.2	1007.2	938.3	908.4	908.4
22.5°	3008.4	2818.1	2371.8	1897.1	1503.2	1196.2	992.6	890.5	850.7	830.8	830.2
25°	3013.7	2782.9	2252.5	1722.0	1318.9	1047.0	893.8	826.2	799.7	787.1	786.4
27.5°	3042.2	2766.4	2142.4	1547.6	1157.7	934.9	827.5	779.8	762.5	754.6	754.6
30°	3093.9	2766.4	2027.7	1399.1	1023.8	852.1	776.5	744.0	732.0	726.7	726.7
32.5°	3184.1	2781.6	1917.0	1251.9	917.0	787.1	734.0	712.1	702.9	700.2	700.2
35°	3339.3	2833.3	1808.9	1112.6	830.8	734.0	693.6	681.0	674.4	673.7	675.7
37.5°	3557.4	2938.8	1707.4	1009.9	769.8	690.9	659.8	649.8	645.8	649.2	651.8
40°	3831.9	3082.0	1615.3	917.0	723.4	656.4	628.6	622.0	620.0	624.6	628.6
42.5°	4163.5	3275.6	1539.7	850.1	687.6	627.3	602.1	594.1	592.1	597.4	602.7
45°	4522.2	3483.8	1486.6	800.3	659.8	605.4	578.9	570.2	566.3	568.9	574.9
47.5°	4848.4	3680.7	1465.4	765.2	633.2	586.8	558.3	547.7	541.1	539.7	544.4
50°	5123.6	3827.3	1475.3	744.0	612.0	566.3	538.4	526.5	516.5	510.6	513.9
52.5°	5323.9	3919.5	1484.6	734.7	595.4	543.7	516.5	505.3	492.0	482.1	482.1
55°	5469.1	3940.7	1464.1	727.4	582.8	519.2	492.0	481.4	468.1	456.9	455.5
57.5°	5526.1	3881.0	1387.8	716.8	574.2	496.0	466.1	458.2	446.9	433.7	433.0
60°	5449.2	3696.7	1240.6	694.2	563.0	476.8	440.3	435.0	429.7	417.1	416.4
62.5°	5140.2	3292.2	1050.3	648.5	540.4	456.2	416.4	419.1	419.7	411.1	409.8
65°	4579.9	2736.5	864.7	588.8	506.6	431.7	391.9	404.5	411.8	410.4	408.5
67.5°	3765.6	2129.8	732.7	525.8	462.2	397.8	365.4	379.9	385.9	390.6	389.2
70°	2794.9	1501.9	606.1	459.5	408.5	358.1	330.9	338.2	334.2	339.5	341.5
72.5°	1558.2	901.1	494.0	393.2	352.8	311.6	292.4	291.1	282.5	282.5	282.5
74°	934.9	661.1	434.3	352.1	318.9	281.1	264.6	258.6	250.6	251.3	250.6
75°	751.9	568.3	398.5	324.9	295.1	263.2	246.7	238.7	232.7	232.7	232.1
77.5°	474.8	431.7	320.9	258.6	236.1	216.8	205.6	194.9	194.9	194.3	193.6
80°	358.7	343.5	250.0	195.6	181.0	166.4	159.1	154.5	154.5	156.5	155.8
82.5°	246.0	258.6	175.7	136.6	129.3	118.7	117.4	118.0	116.0	113.4	112.7
85°	179.7	194.3	118.7	86.2	78.9	72.3	77.6	80.2	76.9	70.9	68.3
87.5°	69.0	127.3	63.7	35.8	33.2	28.5	33.2	34.5	37.1	29.2	29.8
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)