

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: P318657

Luminaire Tested: **GAN-SA3D-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19929 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

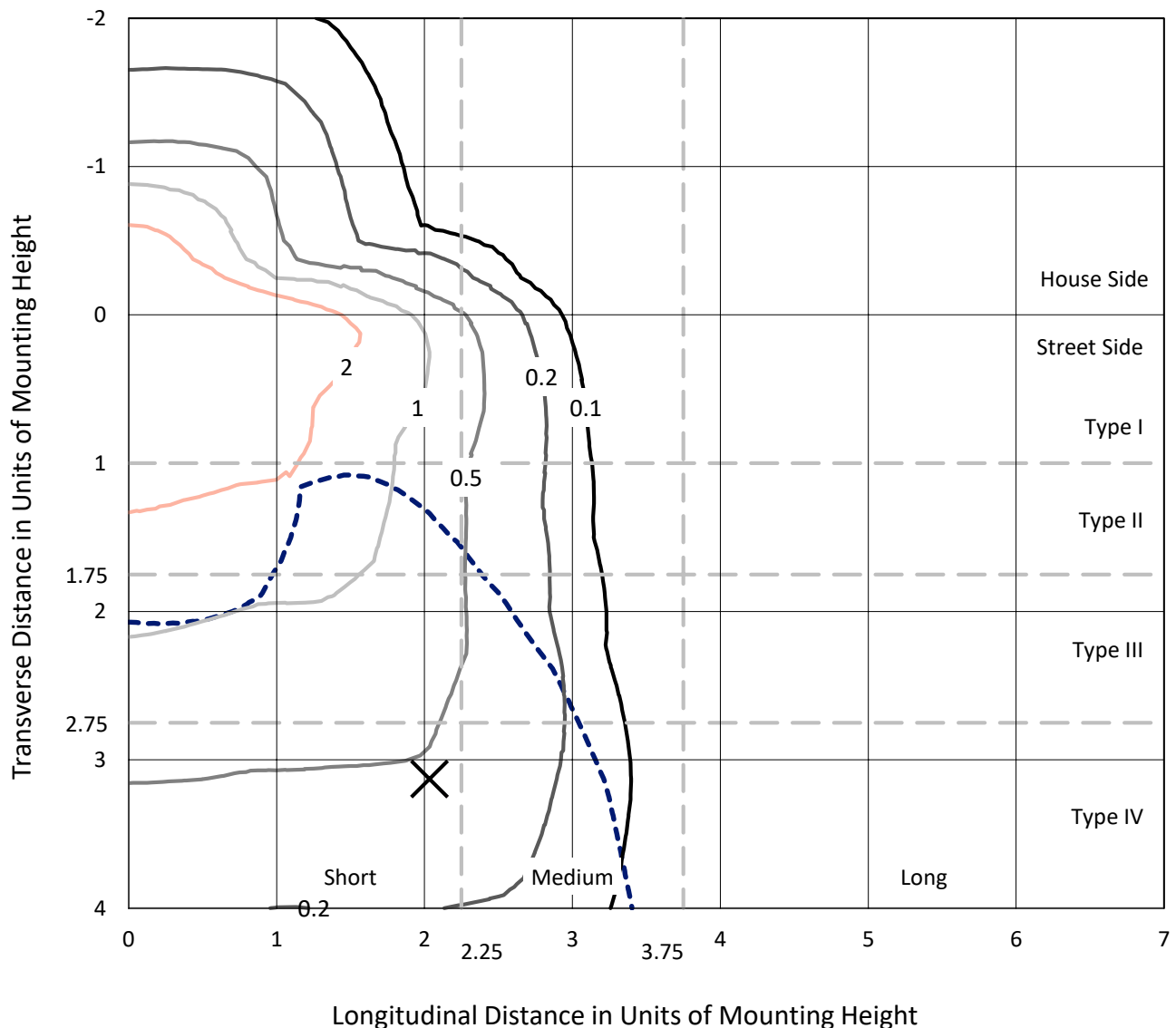
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

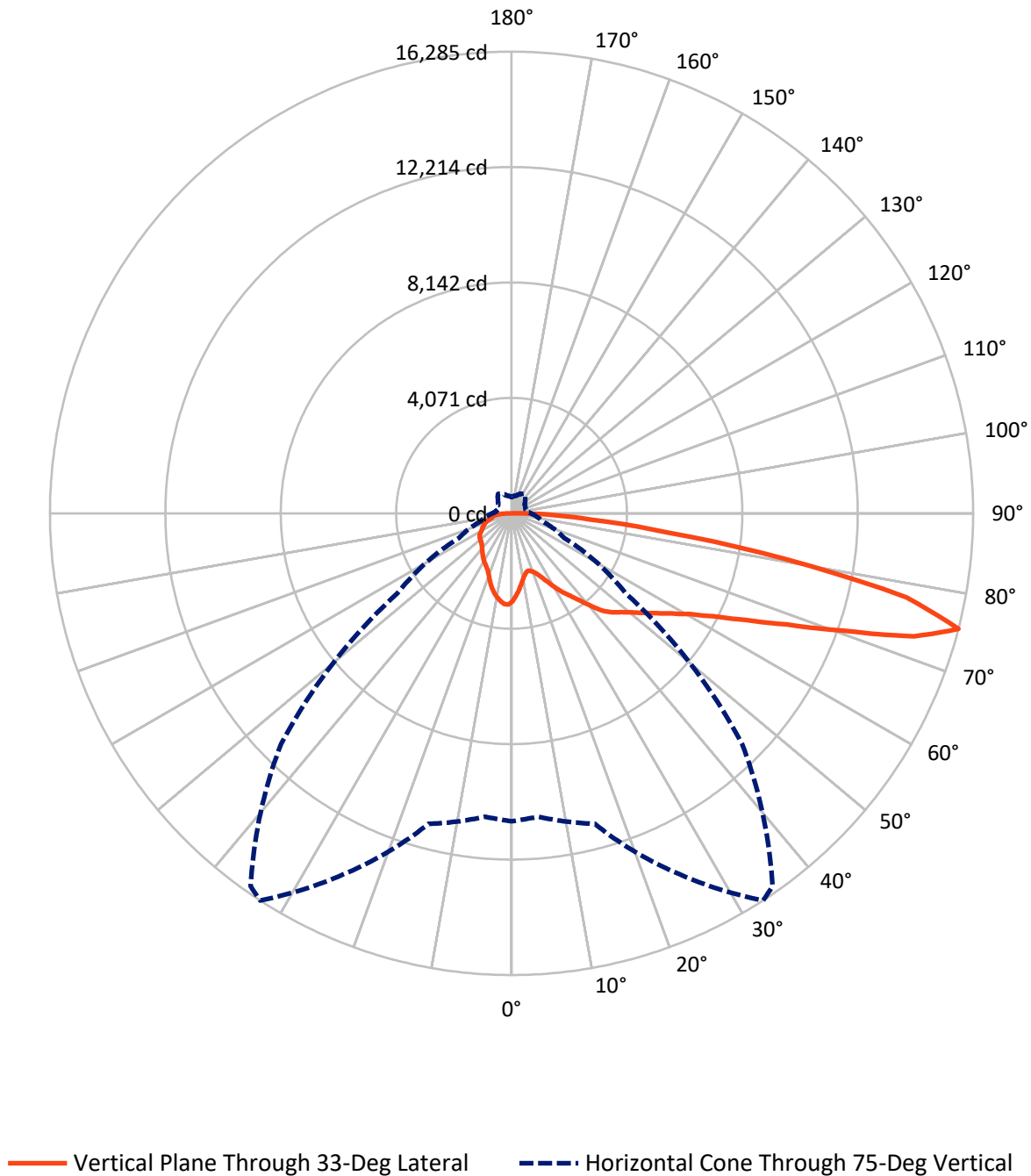
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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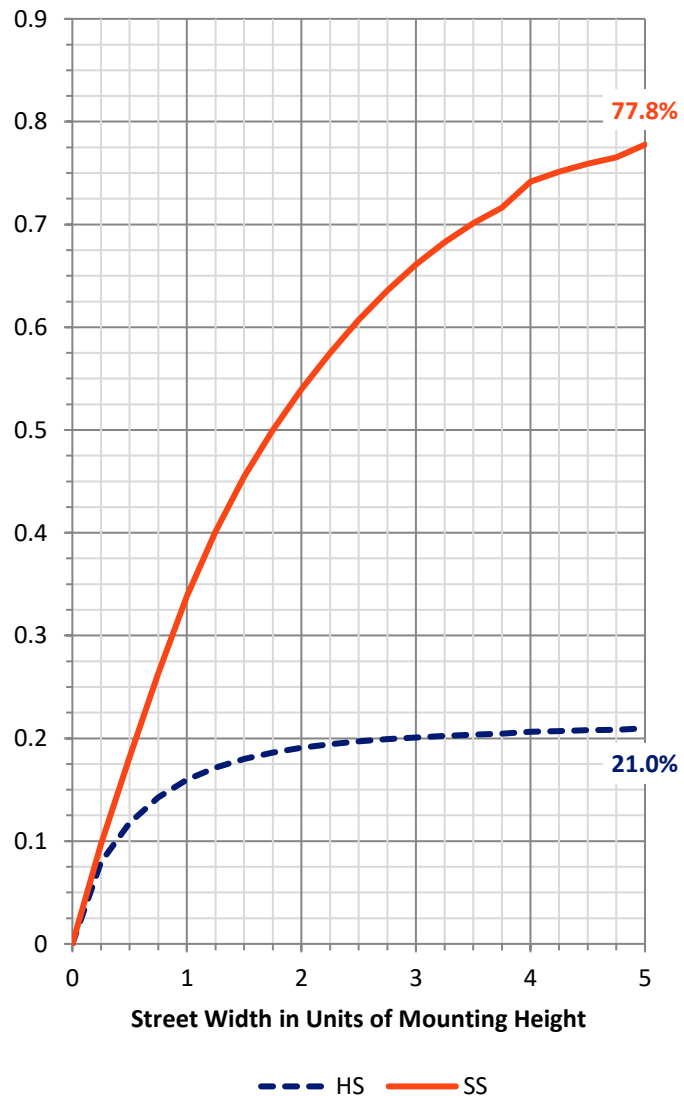
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4279.3	0.0	4279.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	15649.7	0.0	15649.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	19929.0	0.0	19929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.7	1.4
10°-20°	763.0	3.8
20°-30°	1246.1	6.3
30°-40°	1855.7	9.3
40°-50°	2661.6	13.4
50°-60°	3654.0	18.3
60°-70°	4574.6	23.0
70°-80°	4138.4	20.8
80°-90°	753.8	3.8
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°	19929.0	100.0
0°-180°	19929.0	100.0

Coefficient of Utilization



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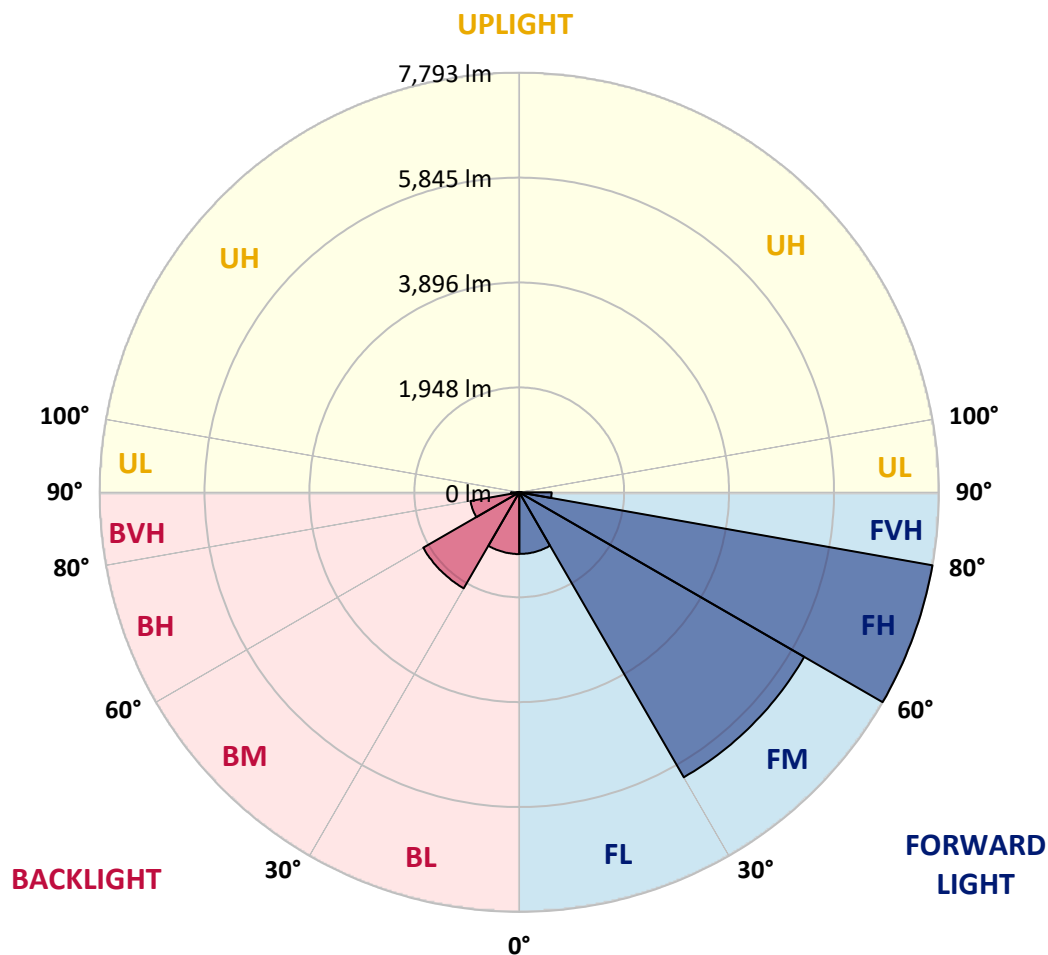
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1144.6	5.7			
FM	(30°-60°)	6111.8	30.7			
FH	(60°-80°)	7792.9	39.1			G4/12000
FVH	(80°-90°)	600.4	3.0			G4/750
BL	(0°-30°)	1146.2	5.8	B3/2500		
BM	(30°-60°)	2059.5	10.3	B2/2500		
BH	(60°-80°)	920.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	153.5	0.8			G2/225
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°	33°	35°	45°	55°	65°	75°	85°
0°	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0
2.5°	2892.7	2881.6	2902.3	2905.1	2923.0	2929.8	2954.6	2993.2	3024.8	3061.3	3094.4
5°	2630.4	2622.8	2651.7	2672.4	2711.6	2728.1	2786.6	2868.6	2941.5	3024.1	3099.2
7.5°	2381.2	2377.0	2409.4	2456.2	2501.6	2524.4	2625.6	2744.7	2866.5	3000.1	3115.0
10°	2171.2	2169.8	2200.8	2246.9	2313.7	2339.2	2470.0	2626.9	2797.7	2981.5	3141.9
12.5°	2053.5	2058.3	2072.8	2111.3	2173.3	2198.8	2344.0	2528.5	2739.8	2975.3	3181.1
15°	2082.4	2090.0	2065.2	2063.8	2107.9	2127.8	2264.2	2458.3	2698.5	2985.6	3238.2
17.5°	2205.6	2207.0	2141.6	2100.3	2127.2	2137.5	2239.4	2418.4	2674.4	3009.0	3309.8
20°	2379.1	2375.7	2260.0	2191.2	2205.6	2208.4	2274.5	2419.0	2672.4	3049.6	3402.8
22.5°	2609.0	2583.6	2428.0	2334.4	2330.9	2326.8	2364.7	2470.0	2702.7	3115.7	3513.6
25°	2909.2	2885.1	2671.0	2543.0	2515.4	2505.1	2510.6	2578.8	2762.6	3186.6	3637.5
27.5°	3243.1	3201.1	2994.5	2813.5	2756.4	2741.9	2708.9	2732.3	2828.0	3254.8	3784.8
30°	3522.5	3499.8	3319.5	3104.7	3037.2	3016.6	2929.8	2904.4	2922.3	3347.7	3970.7
32.5°	3678.8	3663.7	3554.2	3380.7	3318.1	3289.2	3166.6	3115.7	3073.7	3494.3	4222.7
35°	3868.1	3858.5	3792.4	3666.4	3573.5	3543.2	3448.2	3395.2	3287.1	3696.0	4548.3
37.5°	4109.1	4098.7	4100.1	3998.2	3887.4	3859.2	3796.5	3740.8	3563.9	3961.1	4902.1
40°	4381.7	4361.7	4354.1	4349.3	4279.1	4263.3	4230.2	4154.5	3910.8	4277.7	5251.1
42.5°	4792.0	4721.1	4569.6	4626.7	4696.3	4688.0	4714.9	4606.1	4296.3	4652.2	5591.9
45°	5187.8	5071.5	4809.9	4822.2	4974.4	5020.5	5221.5	5144.4	4714.2	5062.5	5944.3
47.5°	5368.2	5280.0	5057.7	5058.4	5209.1	5304.8	5745.4	5690.3	5153.4	5528.5	6374.6
50°	5569.9	5481.7	5282.1	5357.1	5488.6	5590.5	6251.4	6223.1	5571.2	6038.7	6890.2
52.5°	5790.1	5640.8	5514.1	5648.3	5832.8	5951.2	6758.0	6680.9	5954.7	6552.2	7482.9
55°	5792.9	5752.3	5848.7	5947.1	6223.1	6368.4	7288.8	7085.0	6267.2	7056.8	7965.5
57.5°	6122.6	6056.6	6261.0	6306.4	6667.2	6831.0	7816.8	7436.8	6585.2	7443.7	8225.7
60°	6559.1	6502.6	6669.9	6789.7	7216.5	7435.4	8380.6	7798.2	6835.1	7735.6	8213.3
62.5°	7312.9	7248.9	7246.8	7414.8	7989.6	8244.3	9013.2	8152.7	6934.3	7793.4	7862.9
65°	8416.4	8314.5	8122.4	8202.3	9057.3	9311.3	9720.2	8409.5	6803.5	7483.6	6960.4
67.5°	9490.3	9486.9	9250.7	9414.6	10467.1	10670.9	10525.7	8435.0	6395.2	6404.9	5359.2
70°	10560.8	10574.5	10534.6	11104.6	12371.9	12584.0	11383.4	8092.8	5477.6	4625.4	3210.7
72.5°	11408.9	11405.4	11606.4	13076.2	14844.0	14796.5	12106.2	7056.1	3932.8	2496.8	1534.4
75°	10859.5	10739.7	11338.7	14052.3	16284.8	16052.8	11491.5	4922.1	2041.1	1136.6	826.1
77.5°	7083.0	7196.5	8075.6	11608.5	14244.4	13962.1	8430.8	2296.5	961.7	745.5	598.9
80°	2565.0	2684.8	3781.4	6575.6	9813.8	9767.7	4151.7	943.8	650.5	563.1	436.4
82.5°	882.5	926.6	1491.8	2920.2	5540.9	5747.5	1562.0	536.3	472.9	399.3	298.8
85°	346.3	396.5	682.2	1405.0	2794.9	2815.6	632.6	320.8	329.1	261.6	163.8
87.5°	131.5	159.7	326.3	652.6	1276.3	1172.3	226.5	152.8	187.2	155.6	77.8
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°	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0
2.5°	3119.8	3134.3	3164.6	3185.2	3207.3	3213.5	3216.2	3221.7	3227.2	3225.2	3225.8
5°	3139.1	3167.3	3216.2	3236.9	3246.5	3235.5	3214.1	3196.9	3184.5	3177.7	3175.6
7.5°	3170.8	3210.7	3263.0	3259.6	3237.5	3188.7	3133.6	3092.3	3057.9	3045.5	3038.6
10°	3212.8	3259.6	3296.1	3256.8	3192.8	3108.1	3025.5	2961.5	2909.9	2889.9	2886.5
12.5°	3266.5	3314.0	3320.8	3237.5	3131.5	3015.9	2903.7	2819.0	2741.9	2717.1	2711.6
15°	3336.0	3380.7	3338.1	3203.8	3055.8	2900.2	2755.0	2640.0	2558.8	2528.5	2517.5
17.5°	3409.0	3451.6	3341.5	3148.1	2956.7	2763.2	2580.8	2463.1	2370.2	2335.1	2330.9
20°	3496.4	3515.7	3327.0	3068.2	2820.4	2585.6	2393.6	2282.7	2233.2	2208.4	2205.6
22.5°	3604.5	3583.8	3294.0	2960.1	2647.6	2380.5	2224.2	2172.6	2160.2	2154.7	2156.8
25°	3718.7	3655.4	3245.1	2819.0	2429.4	2175.3	2100.3	2114.8	2131.3	2129.2	2129.2
27.5°	3844.7	3728.4	3170.1	2631.8	2187.7	2007.4	2016.3	2069.3	2094.1	2093.4	2092.7
30°	4006.5	3811.0	3074.4	2406.6	1961.9	1889.0	1943.4	2008.1	2041.8	2040.4	2041.1
32.5°	4205.4	3901.9	2944.3	2155.4	1798.8	1801.5	1864.2	1928.2	1967.4	1964.0	1964.7
35°	4438.1	4003.7	2768.1	1907.6	1690.7	1732.0	1781.6	1826.3	1863.5	1858.7	1853.9
37.5°	4691.5	4103.6	2534.0	1685.9	1602.6	1667.3	1708.6	1716.2	1733.4	1721.0	1712.1
40°	4932.4	4180.0	2232.5	1504.2	1513.8	1612.2	1639.1	1608.8	1577.8	1573.7	1561.3
42.5°	5142.4	4205.4	1927.5	1358.9	1420.2	1554.4	1570.9	1507.6	1451.8	1425.7	1414.7
45°	5364.0	4214.4	1643.2	1237.1	1330.0	1502.8	1520.7	1436.0	1357.5	1301.1	1282.5
47.5°	5653.8	4279.1	1422.2	1146.9	1261.2	1468.4	1493.8	1378.9	1277.0	1196.4	1179.2
50°	6033.1	4407.1	1242.6	1078.0	1216.4	1445.6	1474.6	1323.1	1210.9	1113.8	1096.6
52.5°	6454.4	4524.9	1097.3	1022.3	1173.0	1405.7	1449.8	1283.2	1148.9	1037.4	1018.8
55°	6749.1	4434.7	980.3	964.4	1116.6	1348.6	1415.4	1249.4	1060.1	963.1	946.6
57.5°	6805.5	4126.3	891.5	904.6	1048.4	1277.0	1362.3	1174.4	1011.9	930.7	913.5
60°	6651.3	3696.7	825.4	849.5	975.5	1186.8	1263.2	1121.4	965.8	896.3	881.8
62.5°	6263.8	3256.8	776.5	799.9	907.3	1095.2	1201.3	1065.6	919.0	857.1	842.6
65°	5481.0	2734.3	729.7	755.9	844.0	1016.1	1145.5	1014.0	872.9	825.4	811.6
67.5°	4137.3	2048.0	685.6	709.1	787.5	947.2	1084.9	963.1	828.1	797.9	781.3
70°	2436.3	1282.5	635.4	660.2	728.3	875.6	1020.2	907.3	772.4	758.6	737.3
72.5°	1133.8	771.7	578.3	602.4	654.0	780.0	936.9	834.3	706.3	676.0	647.1
75°	676.7	564.5	510.8	532.1	568.6	678.1	832.3	760.0	643.7	603.7	573.4
77.5°	506.0	431.6	436.4	459.2	488.8	593.4	737.3	701.5	595.5	564.5	543.8
80°	364.2	327.7	355.9	380.7	411.7	539.7	706.3	648.5	538.3	497.0	477.8
82.5°	243.0	235.4	267.8	293.3	323.5	472.2	663.6	567.9	459.9	407.5	364.9
85°	134.2	141.8	180.4	191.4	217.5	332.5	543.8	456.4	346.3	278.8	266.4
87.5°	55.8	65.4	97.1	93.6	115.7	198.3	358.0	275.4	220.3	164.5	128.0
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)