

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: P317362

Luminaire Tested: **GAN-SA8B-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39902 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 334
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

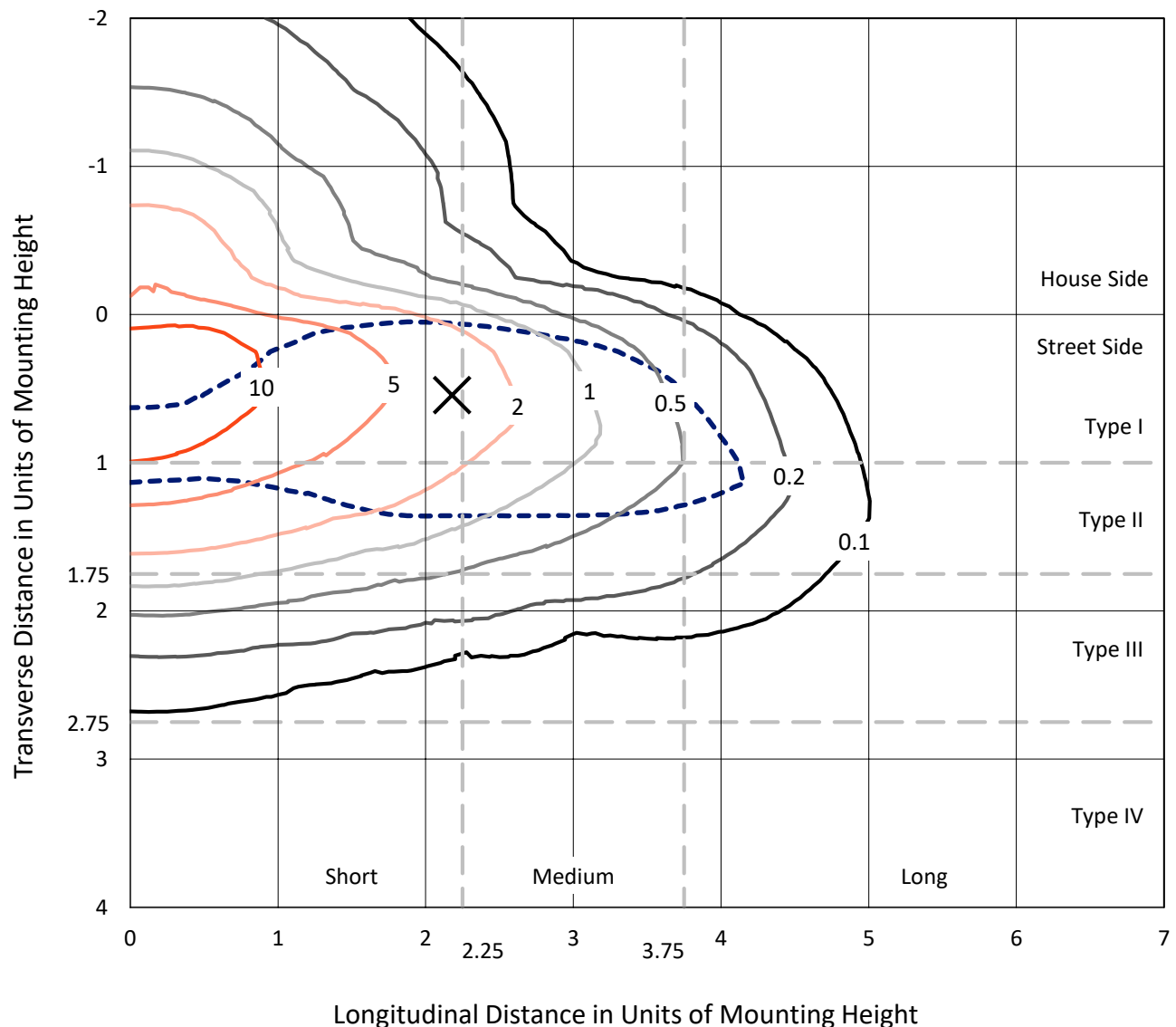


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Iso-Footcandle Lines of Horizontal Illumination

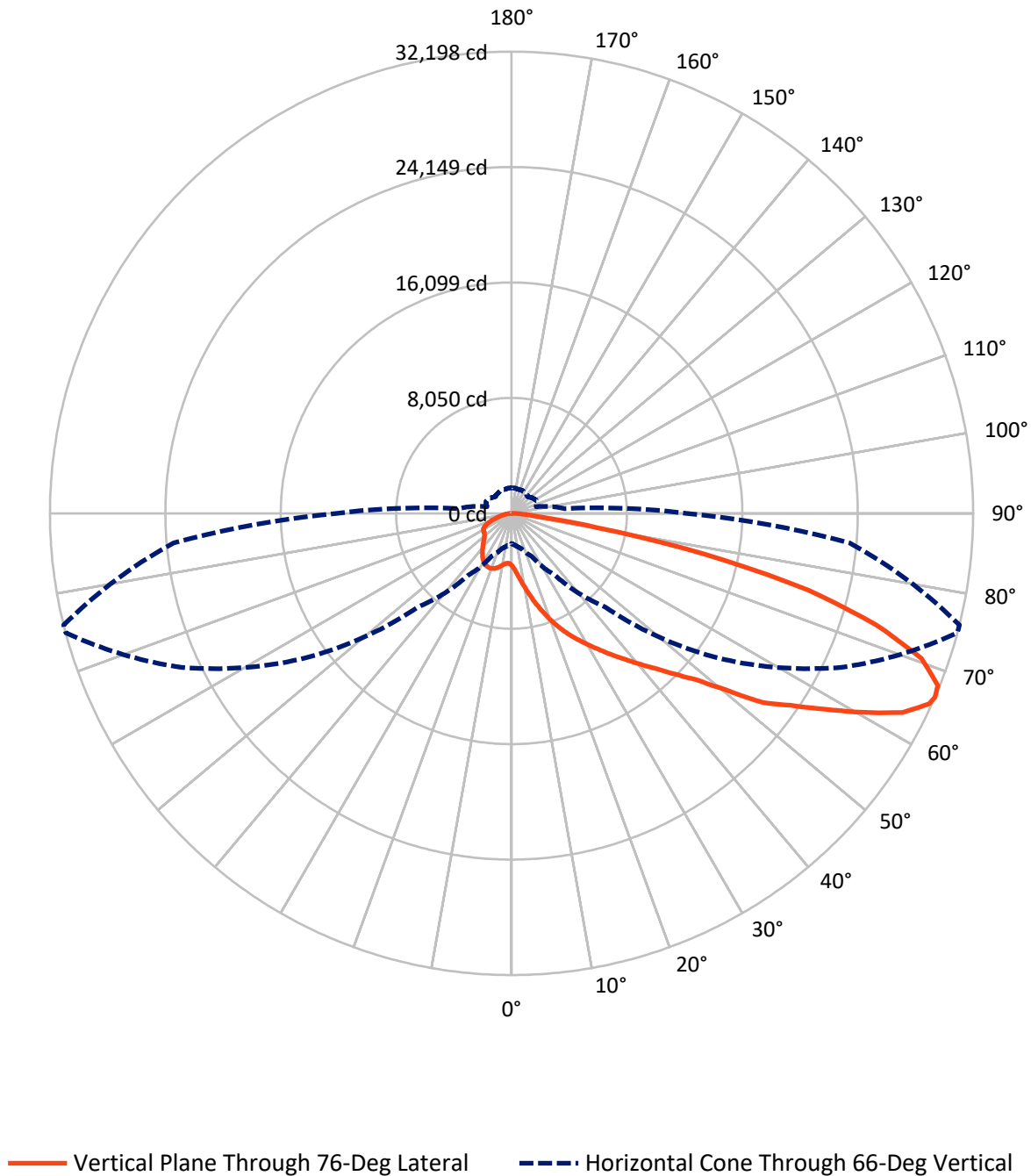
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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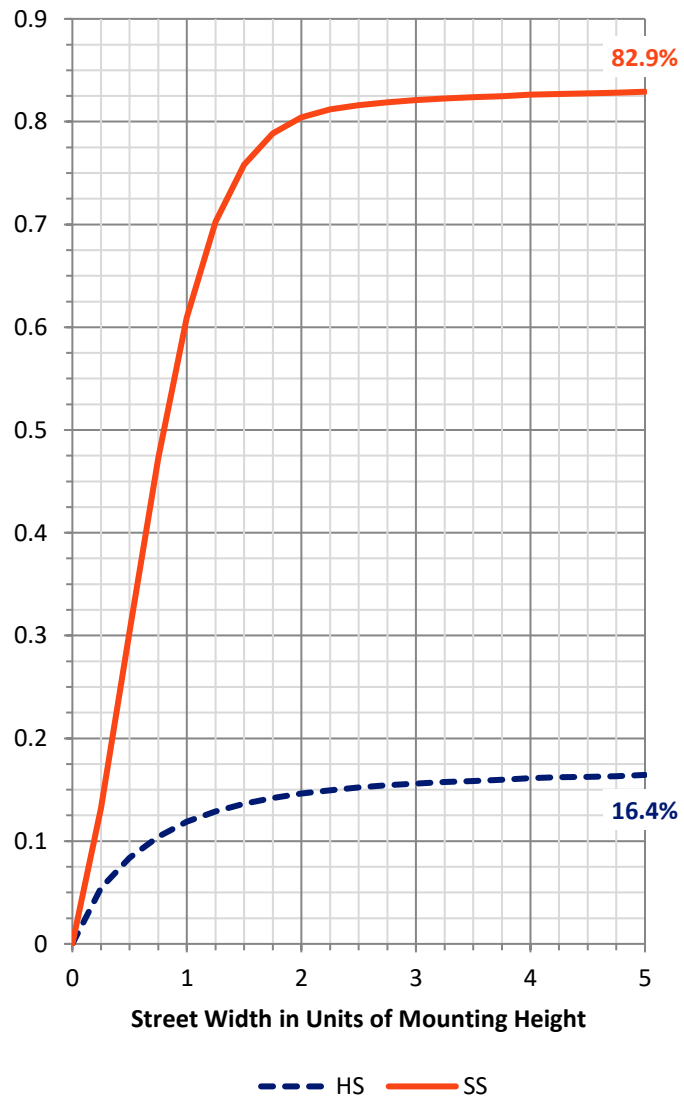
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6714.1	0.0	6714.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	33187.9	0.0	33187.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	39902.0	0.0	39902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.7	1.1
10°-20°	1740.1	4.4
20°-30°	3381.5	8.5
30°-40°	5519.3	13.8
40°-50°	7540.7	18.9
50°-60°	8783.4	22.0
60°-70°	7874.4	19.7
70°-80°	3979.4	10.0
80°-90°	642.6	1.6
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°	39902.0	100.0
0°-180°	39902.0	100.0

Coefficient of Utilization



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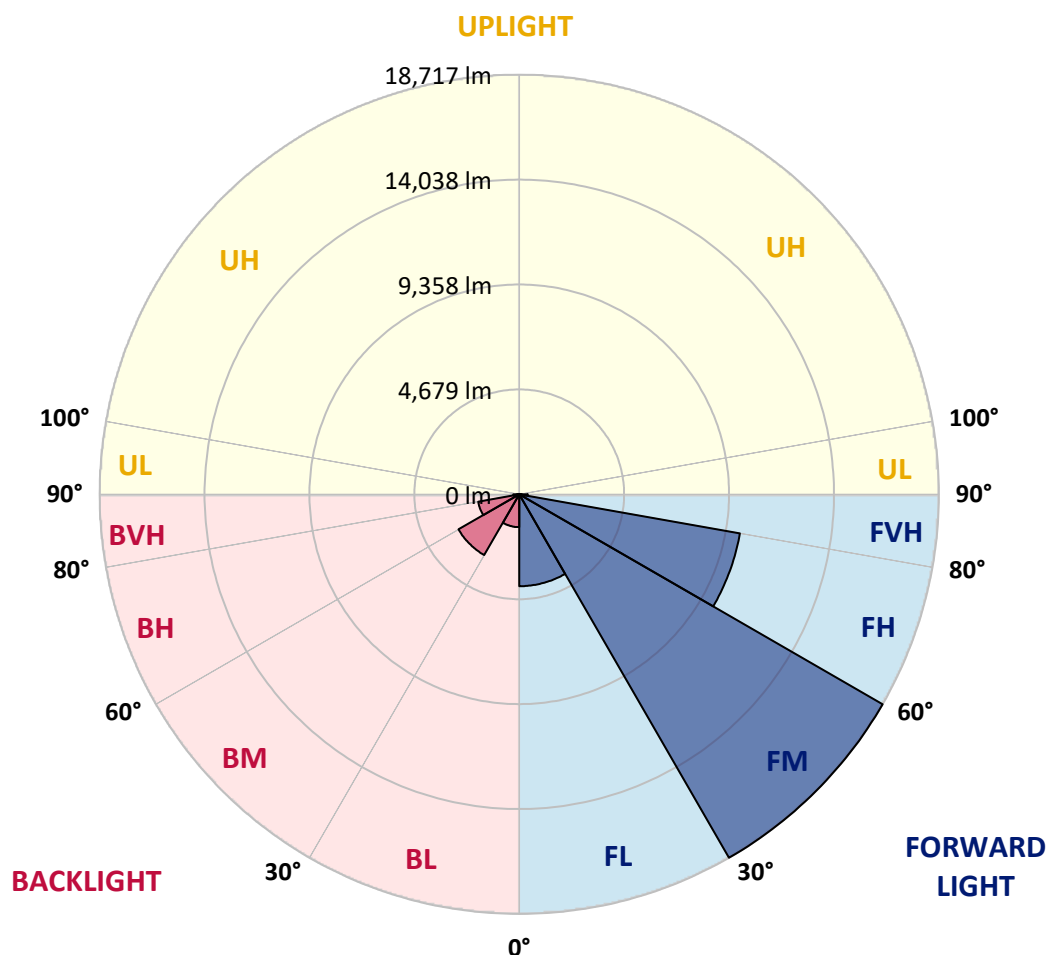
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4097.8	10.3			
FM	(30°-60°)	18716.8	46.9			
FH	(60°-80°)	9993.7	25.0			G4/12000
FVH	(80°-90°)	379.5	1.0			G3/500
BL	(0°-30°)	1464.4	3.7	B3/2500		
BM	(30°-60°)	3126.5	7.8	B3/5000		
BH	(60°-80°)	1860.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	263.1	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0
2.5°	4837.4	4764.2	4757.5	4650.4	4626.1	4421.5	4271.1	4114.0	3935.2	3900.0	3759.1
5°	6213.7	6206.9	6113.4	5938.7	5801.9	5452.4	5107.0	4741.2	4340.2	4275.2	3958.2
7.5°	7451.8	7441.0	7369.2	7180.9	6983.1	6553.7	6060.6	5499.8	4849.6	4753.4	4227.8
10°	8391.9	8387.9	8363.5	8225.3	8057.3	7645.5	7101.0	6335.6	5441.5	5310.1	4565.1
12.5°	9118.0	9126.1	9142.4	9093.6	9013.7	8662.9	8104.7	7221.5	6072.8	5942.8	4940.3
15°	9609.7	9634.1	9718.1	9787.2	9829.2	9613.8	9073.3	8127.8	6779.9	6624.1	5356.2
17.5°	9857.6	9884.7	10029.7	10238.3	10430.6	10409.0	9979.6	8992.0	7458.6	7308.2	5803.2
20°	10071.7	10092.0	10254.5	10505.1	10845.2	10995.5	10754.4	9823.8	8202.3	8023.5	6277.4
22.5°	10692.1	10717.8	10766.6	10908.8	11209.6	11485.9	11369.4	10610.8	8883.7	8717.0	6727.1
25°	11889.6	11920.7	11815.1	11694.5	11751.4	11943.8	11965.4	11328.8	9574.5	9386.2	7210.7
27.5°	13332.3	13377.0	13196.8	12886.6	12615.7	12541.2	12515.4	11916.7	10234.2	10016.1	7688.9
30°	14745.1	14822.4	14588.0	14185.7	13688.5	13339.0	13080.3	12492.4	10884.4	10675.8	8140.0
32.5°	16125.5	16094.3	15754.3	15361.5	14779.0	14341.5	13715.6	13110.1	11615.9	11376.2	8588.3
35°	17071.0	17081.9	16766.2	16300.3	15744.9	15408.9	14566.3	13776.6	12362.3	12141.5	9097.7
37.5°	17875.7	17825.6	17467.9	17033.1	16554.9	16411.3	15562.0	14510.8	13171.1	12929.9	9639.5
40°	18143.9	18085.7	17851.3	17538.4	17155.0	17142.8	16660.6	15342.5	14085.4	13847.0	10250.5
42.5°	17981.3	17906.8	17810.7	17725.3	17607.5	17661.7	17692.8	16317.9	15090.6	14823.7	10957.6
45°	17381.2	17268.8	17336.5	17522.1	17778.2	18084.3	18624.8	17397.5	16216.3	15992.8	11788.0
47.5°	16458.7	16357.1	16568.5	16965.4	17661.7	18436.5	19506.7	18589.6	17560.1	17337.9	12970.6
50°	15161.0	15190.8	15492.9	16214.9	17267.5	18599.1	20593.1	20167.7	19513.4	19306.2	14583.9
52.5°	13031.5	13037.0	13887.7	15073.0	16568.5	18515.1	21195.9	22184.8	22180.7	21930.1	16120.1
55°	11053.8	11174.3	11847.6	13423.0	15436.0	18179.1	21617.2	23165.5	23932.2	23638.3	17551.9
57.5°	9122.1	9192.5	9830.5	11412.8	13819.9	17283.7	22049.3	24342.7	25950.6	25765.0	19331.9
60°	6924.9	7033.2	7692.9	9154.6	11752.8	15694.7	22089.9	25571.3	28363.2	28176.3	21319.2
62.5°	4494.7	4681.6	5299.3	6668.8	9252.1	13409.5	21147.1	26374.6	30649.8	30583.5	23082.9
65°	2583.3	2724.2	3153.6	4210.2	6383.0	10540.4	18905.2	26065.8	32057.3	32019.4	23742.6
66°	2110.5	2198.6	2527.7	3290.4	5266.8	9256.2	17602.1	25414.2	32196.8	32198.2	23666.7
67.5°	1687.9	1727.2	1874.8	2355.7	3886.4	7336.7	15273.4	23976.9	32023.4	32070.8	23177.7
70°	1396.6	1416.9	1463.0	1579.5	2121.3	4424.2	10841.1	20242.2	30282.7	30319.3	21269.0
72.5°	1253.0	1265.2	1282.8	1299.1	1496.9	2472.2	6621.4	16193.2	26550.7	26598.1	18360.6
75°	1135.2	1142.0	1139.2	1140.6	1255.7	1575.4	3421.8	12090.1	21468.2	21373.3	14065.1
77.5°	997.0	1003.8	990.2	992.9	1110.8	1211.0	1702.8	8463.7	14487.8	13818.6	7924.6
80°	842.6	848.0	842.6	852.1	967.2	914.4	990.2	4761.5	6406.0	6059.3	2817.6
82.5°	636.7	659.7	676.0	713.9	796.5	650.2	662.4	1854.5	1950.7	1857.2	864.3
85°	279.1	340.0	509.3	545.9	598.7	390.1	434.8	755.9	793.8	769.4	314.3
87.5°	73.1	79.9	252.0	317.0	331.9	176.1	226.2	344.1	363.0	344.1	104.3
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°	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0	3644.0
2.5°	3684.6	3618.2	3499.0	3393.3	3313.4	3259.2	3205.1	3178.0	3161.7	3145.4	3148.2
5°	3802.4	3668.3	3463.8	3318.8	3237.6	3186.1	3159.0	3148.2	3141.4	3125.1	3125.1
7.5°	3979.9	3790.3	3508.5	3359.5	3295.8	3256.5	3240.3	3234.9	3226.7	3207.8	3210.5
10°	4203.4	3937.9	3602.0	3457.0	3398.8	3355.4	3332.4	3324.3	3309.4	3287.7	3290.4
12.5°	4466.2	4120.8	3725.2	3573.5	3503.1	3444.8	3406.9	3383.9	3358.1	3329.7	3331.0
15°	4753.4	4319.9	3858.0	3677.8	3581.6	3500.4	3439.4	3400.1	3359.5	3324.3	3322.9
17.5°	5044.6	4512.3	3959.6	3734.7	3604.7	3497.7	3415.0	3354.1	3303.9	3260.6	3256.5
20°	5358.9	4685.7	4016.5	3729.3	3561.3	3434.0	3324.3	3248.4	3192.9	3149.5	3142.7
22.5°	5678.6	4848.2	4026.0	3673.8	3465.1	3309.4	3194.2	3110.2	3053.3	3008.6	2992.4
25°	5971.2	4974.2	3986.7	3566.7	3331.0	3163.1	3050.6	2965.3	2919.2	2866.4	2850.1
27.5°	6238.1	5062.2	3908.1	3429.9	3180.7	3015.4	2909.7	2836.6	2786.5	2745.8	2732.3
30°	6477.8	5109.7	3779.4	3267.4	3026.2	2875.9	2786.5	2736.4	2693.0	2641.5	2632.0
32.5°	6705.4	5109.7	3614.2	3089.9	2873.2	2752.6	2699.8	2668.6	2619.9	2569.7	2556.2
35°	6933.0	5078.5	3419.1	2904.3	2732.3	2664.6	2661.8	2625.3	2550.8	2483.0	2465.4
37.5°	7172.8	5014.8	3199.6	2730.9	2617.1	2625.3	2648.3	2567.0	2461.4	2365.2	2339.4
40°	7443.7	4926.8	2972.1	2580.6	2521.0	2607.7	2611.7	2483.0	2277.1	2189.1	2166.1
42.5°	7762.0	4838.7	2760.7	2447.8	2445.1	2554.8	2542.6	2301.5	2178.2	2133.5	2121.3
45°	8180.6	4788.6	2560.2	2321.8	2385.5	2469.5	2424.8	2201.3	2149.8	2124.1	2113.2
47.5°	8840.3	4814.4	2376.0	2221.6	2325.9	2384.1	2205.3	2160.6	2124.1	2092.9	2082.1
50°	9666.6	4799.5	2227.0	2152.5	2258.2	2294.7	2106.4	2107.8	2088.8	2053.6	2037.4
52.5°	10288.4	4683.0	2130.8	2113.2	2198.6	2136.3	2044.1	2056.3	2046.8	1995.4	1977.8
55°	10888.5	4582.7	2082.1	2098.3	2155.2	1938.5	1971.0	2000.8	1991.3	1941.2	1933.1
57.5°	11634.9	4563.7	2052.3	2102.4	2118.6	1839.6	1900.5	1939.8	1933.1	1911.4	1907.3
60°	12549.3	4569.2	2025.2	2109.2	2078.0	1766.4	1834.2	1884.3	1888.4	1884.3	1881.6
62.5°	13051.9	4421.5	1957.4	2090.2	2006.2	1702.8	1765.1	1838.2	1839.6	1847.7	1846.4
65°	12625.1	3979.9	1831.5	2023.8	1885.6	1649.9	1705.5	1785.4	1765.1	1801.7	1801.7
66°	12210.6	3725.2	1769.1	1980.5	1834.2	1629.6	1686.5	1758.3	1732.6	1782.7	1782.7
67.5°	11364.0	3295.8	1656.7	1888.4	1761.0	1601.2	1664.8	1713.6	1678.4	1752.9	1747.5
70°	9817.0	2549.4	1430.5	1679.7	1640.5	1559.2	1635.0	1624.2	1572.7	1686.5	1664.8
72.5°	8276.8	1937.1	1148.7	1406.1	1457.6	1506.3	1593.0	1510.4	1445.4	1525.3	1477.9
75°	6422.3	1456.2	907.6	1093.2	1231.4	1423.7	1542.9	1379.0	1285.5	1277.4	1251.7
77.5°	3471.9	999.7	719.3	834.5	978.0	1320.8	1509.1	1238.1	1097.2	1064.7	1044.4
80°	1374.9	650.2	522.9	632.6	684.1	1171.8	1427.8	1074.2	904.9	872.4	841.2
82.5°	567.6	384.7	337.3	424.0	445.7	1002.4	1281.5	880.5	699.0	967.2	1026.8
85°	243.8	211.3	200.5	219.4	252.0	703.1	1020.0	671.9	754.5	673.3	535.1
87.5°	73.1	89.4	85.3	84.0	92.1	168.0	543.2	373.9	554.0	210.0	157.1
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)