

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: P317363

Luminaire Tested: **GAN-SA9B-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317363
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-SA9B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 44510 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 374
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

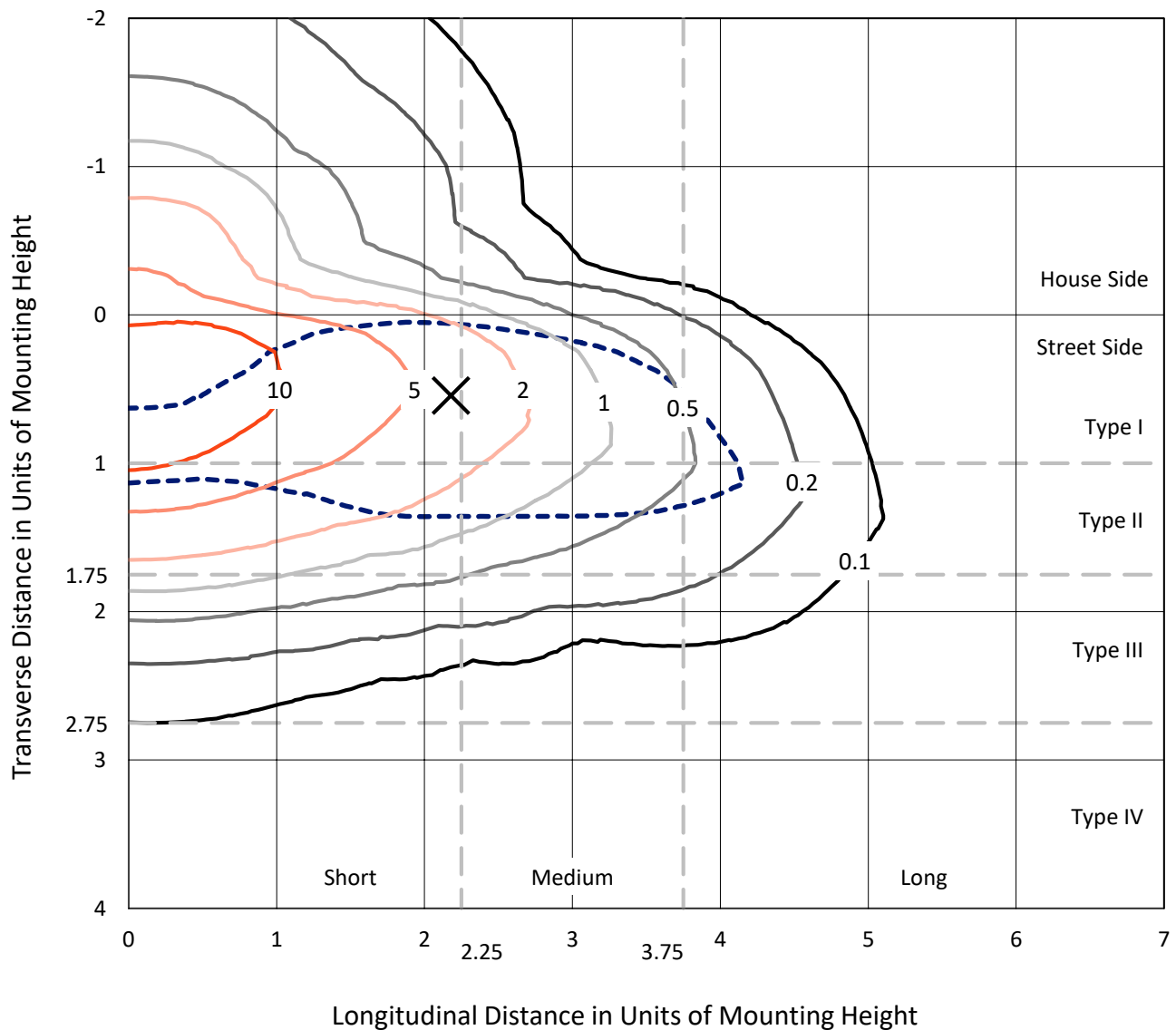


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Iso-Footcandle Lines of Horizontal Illumination

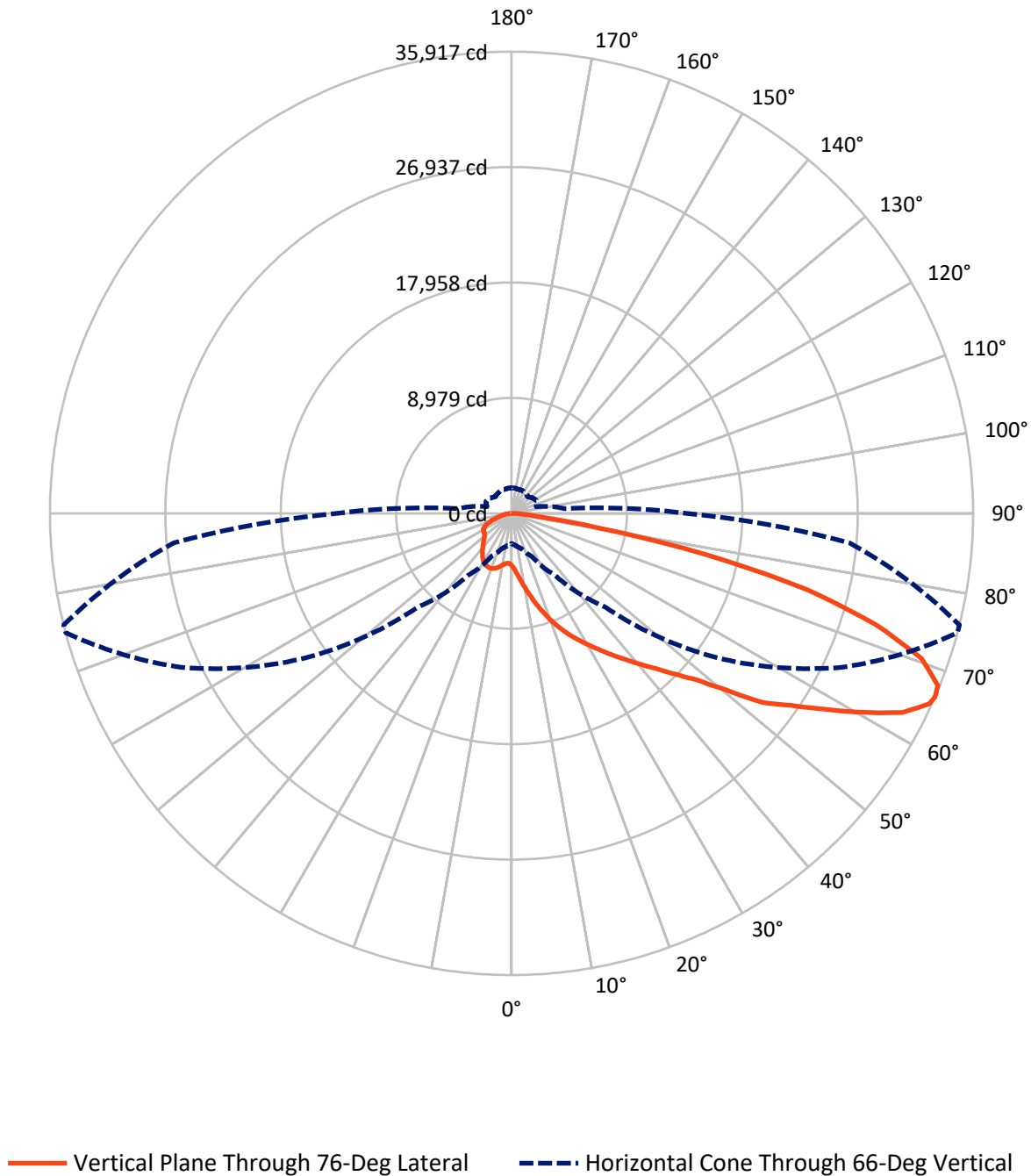
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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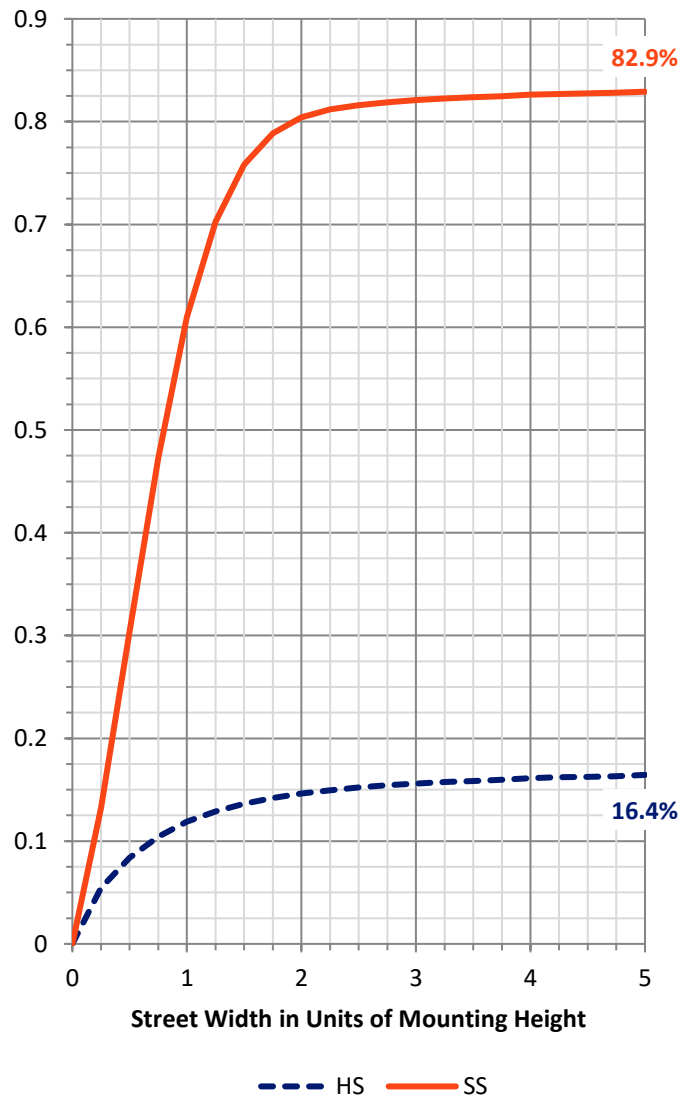
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7489.5	0.0	7489.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	37020.5	0.0	37020.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	44510.0	0.0	44510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.5	1.1
10°-20°	1941.1	4.4
20°-30°	3772.0	8.5
30°-40°	6156.7	13.8
40°-50°	8411.5	18.9
50°-60°	9797.7	22.0
60°-70°	8783.8	19.7
70°-80°	4439.0	10.0
80°-90°	716.8	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°	44510.0	100.0
0°-180°	44510.0	100.0

Coefficient of Utilization



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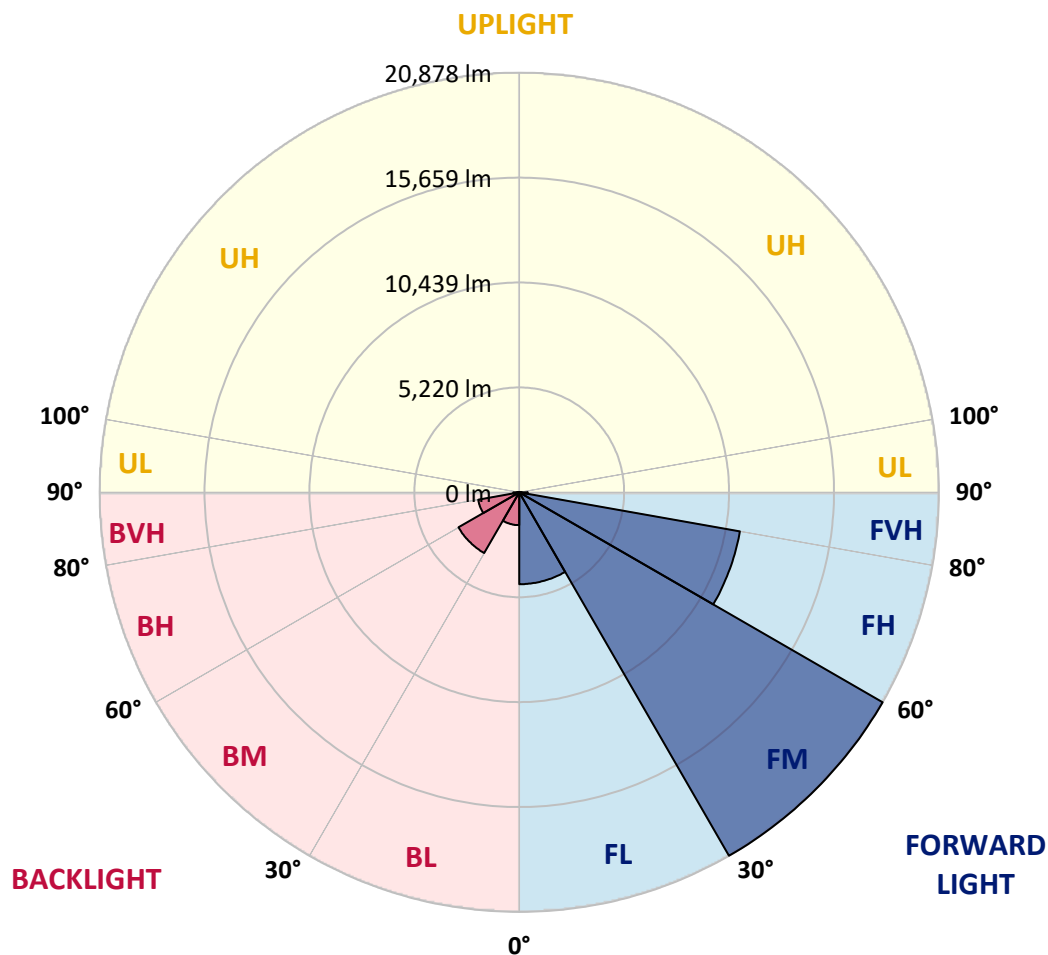
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4571.1	10.3			
FM	(30°-60°)	20878.3	46.9			
FH	(60°-80°)	11147.8	25.0			G4/12000
FVH	(80°-90°)	423.3	1.0			G3/500
BL	(0°-30°)	1633.5	3.7	B3/2500		
BM	(30°-60°)	3487.6	7.8	B3/5000		
BH	(60°-80°)	2074.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	293.5	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°	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8
2.5°	5396.0	5314.4	5306.9	5187.5	5160.3	4932.1	4764.4	4589.1	4389.6	4350.4	4193.2
5°	6931.3	6923.7	6819.4	6624.5	6471.9	6082.0	5696.7	5288.7	4841.5	4768.9	4415.3
7.5°	8312.4	8300.3	8220.2	8010.2	7789.5	7310.5	6760.5	6134.9	5409.6	5302.3	4716.0
10°	9361.1	9356.5	9329.3	9175.2	8987.8	8528.5	7921.0	7067.3	6070.0	5923.4	5092.3
12.5°	10171.0	10180.0	10198.2	10143.8	10054.6	9663.3	9040.7	8055.5	6774.1	6629.0	5510.9
15°	10719.5	10746.7	10840.4	10917.5	10964.3	10724.0	10121.1	9066.4	7562.9	7389.1	5974.8
17.5°	10996.0	11026.2	11187.9	11420.6	11635.2	11611.0	11132.0	10030.5	8319.9	8152.2	6473.4
20°	11234.8	11257.4	11438.8	11718.3	12097.6	12265.3	11996.4	10958.2	9149.5	8950.0	7002.3
22.5°	11926.8	11955.6	12010.0	12168.6	12504.1	12812.3	12682.4	11836.2	9909.6	9723.7	7504.0
25°	13262.6	13297.4	13179.5	13045.0	13108.5	13323.1	13347.2	12637.0	10680.2	10470.2	8043.4
27.5°	14871.9	14921.8	14720.8	14374.8	14072.6	13989.4	13960.7	13292.8	11416.1	11172.8	8576.8
30°	16448.0	16534.1	16272.7	15823.9	15269.3	14879.5	14590.9	13935.0	12141.4	11908.7	9080.0
32.5°	17987.7	17953.0	17573.7	17135.5	16485.7	15997.7	15299.5	14624.1	12957.4	12689.9	9580.2
35°	19042.5	19054.5	18702.5	18182.7	17563.1	17188.4	16248.5	15367.5	13790.0	13543.7	10148.3
37.5°	19940.0	19884.1	19485.2	19000.1	18466.7	18306.6	17359.1	16186.5	14692.1	14423.1	10752.7
40°	20239.2	20174.2	19912.8	19563.8	19136.1	19122.5	18584.6	17114.3	15712.1	15446.1	11434.2
42.5°	20057.9	19974.8	19867.5	19772.3	19640.8	19701.3	19736.0	18202.3	16833.3	16535.6	12223.0
45°	19388.5	19263.1	19338.6	19545.6	19831.2	20172.7	20775.6	19406.6	18089.0	17839.6	13149.3
47.5°	18359.4	18246.1	18481.8	18924.6	19701.3	20565.6	21759.3	20736.4	19587.9	19340.1	14468.5
50°	16911.8	16945.1	17282.1	18087.5	19261.6	20746.9	22971.2	22496.7	21766.9	21535.7	16268.1
52.5°	14536.5	14542.5	15491.4	16813.6	18481.8	20653.2	23643.6	24746.7	24742.2	24462.6	17981.7
55°	12330.3	12464.8	13215.8	14973.2	17218.6	20278.5	24113.6	25840.7	26696.0	26368.1	19578.9
57.5°	10175.5	10254.1	10965.8	12730.7	15415.9	19279.7	24595.6	27153.9	28947.5	28740.5	21564.4
60°	7724.6	7845.5	8581.3	10211.8	13110.0	17507.2	24640.9	28524.4	31638.7	31430.2	23781.2
62.5°	5013.7	5222.2	5911.3	7439.0	10320.6	14958.0	23589.2	29420.5	34189.4	34115.3	25748.6
65°	2881.6	3038.8	3517.8	4696.4	7120.1	11757.6	21088.4	29075.9	35759.4	35717.1	26484.4
66°	2354.2	2452.5	2819.6	3670.4	5875.0	10325.1	19634.8	28349.1	35915.0	35916.5	26399.8
67.5°	1882.8	1926.6	2091.3	2627.7	4335.2	8183.9	17037.3	26745.9	35721.6	35774.5	25854.3
70°	1557.9	1580.6	1632.0	1761.9	2366.3	4935.1	12093.1	22579.9	33779.9	33820.7	23725.2
72.5°	1397.7	1411.3	1431.0	1449.1	1669.7	2757.7	7386.1	18063.3	29616.9	29669.8	20481.0
75°	1266.3	1273.8	1270.8	1272.3	1400.8	1757.4	3817.0	13486.3	23947.4	23841.6	15689.4
77.5°	1112.1	1119.7	1104.6	1107.6	1239.1	1350.9	1899.4	9441.1	16160.8	15414.4	8839.7
80°	939.9	945.9	939.9	950.5	1078.9	1020.0	1104.6	5311.4	7145.8	6759.0	3143.0
82.5°	710.2	735.9	754.0	796.3	888.5	725.3	738.9	2068.6	2175.9	2071.7	964.1
85°	311.3	379.3	568.2	609.0	667.9	435.2	485.1	843.2	885.5	858.3	350.6
87.5°	81.6	89.2	281.1	353.6	370.2	196.4	252.3	383.8	405.0	383.8	116.4
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°	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8
2.5°	4110.1	4036.1	3903.1	3785.2	3696.1	3635.6	3575.2	3545.0	3526.8	3508.7	3511.7
5°	4241.6	4092.0	3863.8	3702.1	3611.4	3554.0	3523.8	3511.7	3504.2	3486.0	3486.0
7.5°	4439.5	4228.0	3913.7	3747.4	3676.4	3632.6	3614.5	3608.4	3599.4	3578.2	3581.2
10°	4688.8	4392.7	4017.9	3856.2	3791.3	3742.9	3717.2	3708.2	3691.5	3667.4	3670.4
12.5°	4982.0	4596.7	4155.4	3986.2	3907.6	3842.6	3800.3	3774.6	3745.9	3714.2	3715.7
15°	5302.3	4818.8	4303.5	4102.5	3995.3	3904.6	3836.6	3792.8	3747.4	3708.2	3706.6
17.5°	5627.2	5033.4	4416.8	4166.0	4020.9	3901.6	3809.4	3741.4	3685.5	3637.1	3632.6
20°	5977.8	5226.8	4480.3	4160.0	3972.6	3830.6	3708.2	3623.5	3561.6	3513.2	3505.7
22.5°	6334.4	5408.1	4490.9	4098.0	3865.3	3691.5	3563.1	3469.4	3405.9	3356.1	3337.9
25°	6660.8	5548.6	4447.1	3978.6	3715.7	3528.3	3402.9	3307.7	3256.3	3197.4	3179.3
27.5°	6958.5	5646.9	4359.4	3826.0	3548.0	3363.6	3245.8	3164.2	3108.3	3062.9	3047.8
30°	7225.9	5699.7	4215.9	3644.7	3375.7	3208.0	3108.3	3052.4	3004.0	2946.6	2936.0
32.5°	7479.8	5699.7	4031.5	3446.7	3205.0	3070.5	3011.6	2976.8	2922.4	2866.5	2851.4
35°	7733.6	5665.0	3813.9	3239.7	3047.8	2972.3	2969.2	2928.4	2845.3	2769.8	2750.1
37.5°	8001.1	5594.0	3569.1	3046.3	2919.4	2928.4	2954.1	2863.5	2745.6	2638.3	2609.6
40°	8303.3	5495.7	3315.3	2878.6	2812.1	2908.8	2913.3	2769.8	2540.1	2441.9	2416.2
42.5°	8658.4	5397.5	3079.6	2730.5	2727.5	2849.9	2836.3	2567.3	2429.8	2379.9	2366.3
45°	9125.3	5341.6	2855.9	2590.0	2661.0	2754.7	2704.8	2455.5	2398.1	2369.4	2357.3
47.5°	9861.2	5370.3	2650.4	2478.1	2594.5	2659.5	2460.0	2410.1	2369.4	2334.6	2322.5
50°	10783.0	5353.7	2484.2	2401.1	2518.9	2559.7	2349.7	2351.2	2330.1	2290.8	2272.6
52.5°	11476.5	5223.8	2376.9	2357.3	2452.5	2383.0	2280.2	2293.8	2283.2	2225.8	2206.2
55°	12145.9	5111.9	2322.5	2340.6	2404.1	2162.3	2198.6	2231.8	2221.3	2165.4	2156.3
57.5°	12978.5	5090.8	2289.3	2345.2	2363.3	2052.0	2120.0	2163.8	2156.3	2132.1	2127.6
60°	13998.5	5096.8	2259.0	2352.7	2318.0	1970.4	2046.0	2101.9	2106.4	2101.9	2098.9
62.5°	14559.1	4932.1	2183.5	2331.6	2237.9	1899.4	1968.9	2050.5	2052.0	2061.1	2059.6
65°	14083.1	4439.5	2043.0	2257.5	2103.4	1840.5	1902.4	1991.6	1968.9	2009.7	2009.7
66°	13620.7	4155.4	1973.5	2209.2	2046.0	1817.8	1881.3	1961.4	1932.7	1988.6	1988.6
67.5°	12676.3	3676.4	1848.0	2106.4	1964.4	1786.1	1857.1	1911.5	1872.2	1955.3	1949.3
70°	10950.7	2843.8	1595.7	1873.7	1829.9	1739.2	1823.9	1811.8	1754.3	1881.3	1857.1
72.5°	9232.6	2160.8	1281.4	1568.5	1625.9	1680.3	1777.0	1684.8	1612.3	1701.5	1648.6
75°	7164.0	1624.4	1012.4	1219.4	1373.6	1588.1	1721.1	1538.3	1434.0	1424.9	1396.2
77.5°	3872.9	1115.2	802.4	930.8	1091.0	1473.3	1683.3	1381.1	1224.0	1187.7	1165.0
80°	1533.7	725.3	583.3	705.7	763.1	1307.1	1592.7	1198.3	1009.4	973.1	938.4
82.5°	633.1	429.1	376.3	473.0	497.1	1118.2	1429.5	982.2	779.7	1078.9	1145.4
85°	272.0	235.7	223.6	244.8	281.1	784.2	1137.8	749.5	841.7	751.0	596.9
87.5°	81.6	99.7	95.2	93.7	102.8	187.4	605.9	417.1	618.0	234.2	175.3
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)