

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: P320883

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43831 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

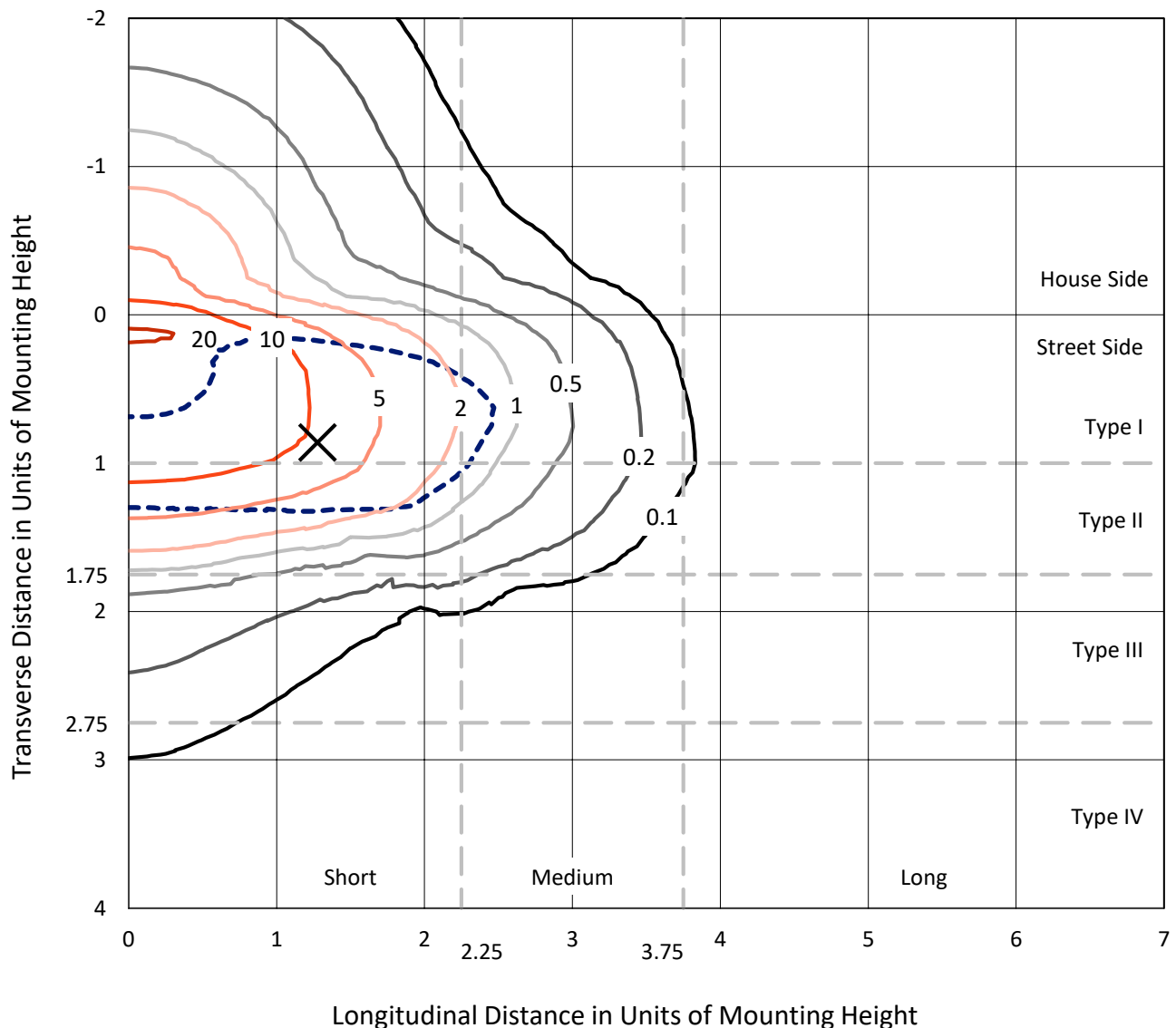
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

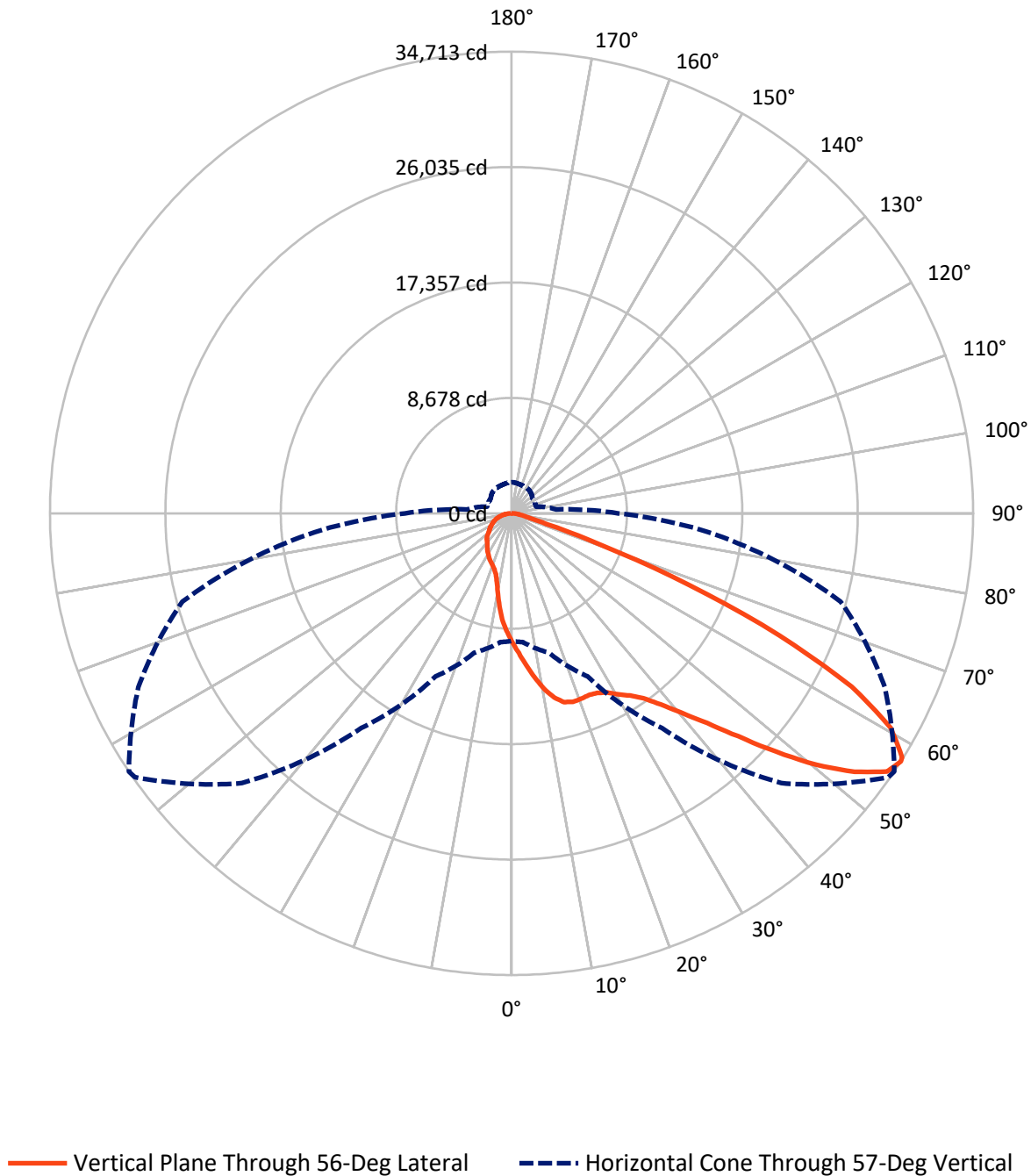
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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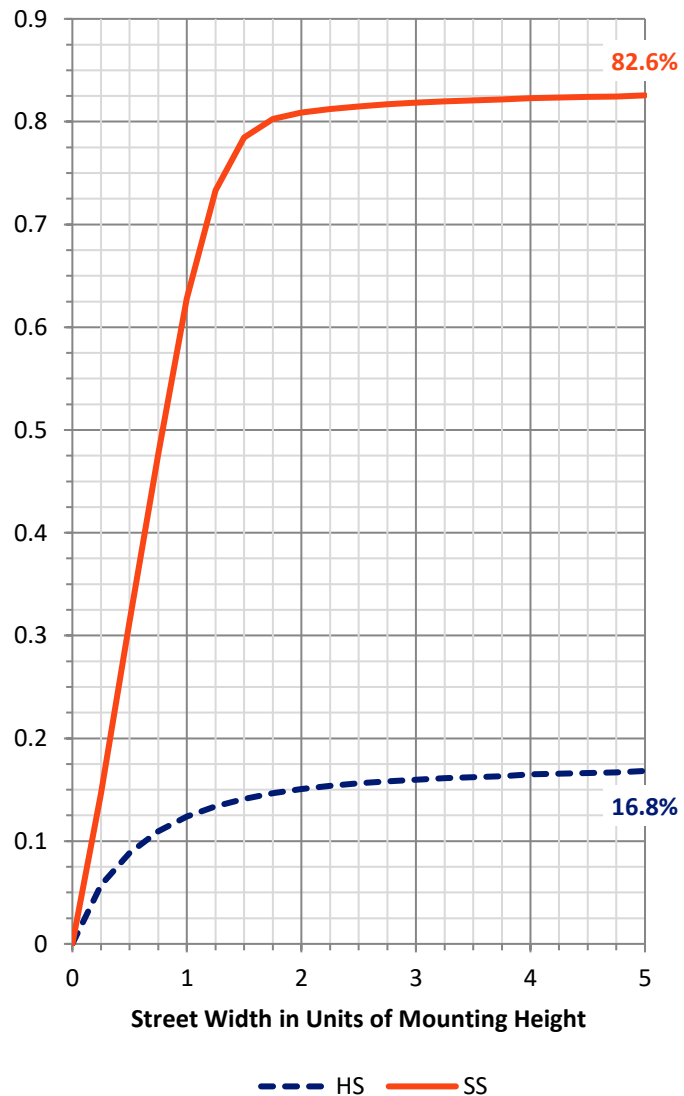
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7555.5	0.0	7555.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	36275.5	0.0	36275.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	43831.0	0.0	43831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.7	2.1
10°-20°	2625.6	6.0
20°-30°	4276.6	9.8
30°-40°	6393.0	14.6
40°-50°	9696.8	22.1
50°-60°	10868.4	24.8
60°-70°	6419.3	14.6
70°-80°	2103.2	4.8
80°-90°	519.6	1.2
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°	43831.0	100.0
0°-180°	43831.0	100.0

Coefficient of Utilization



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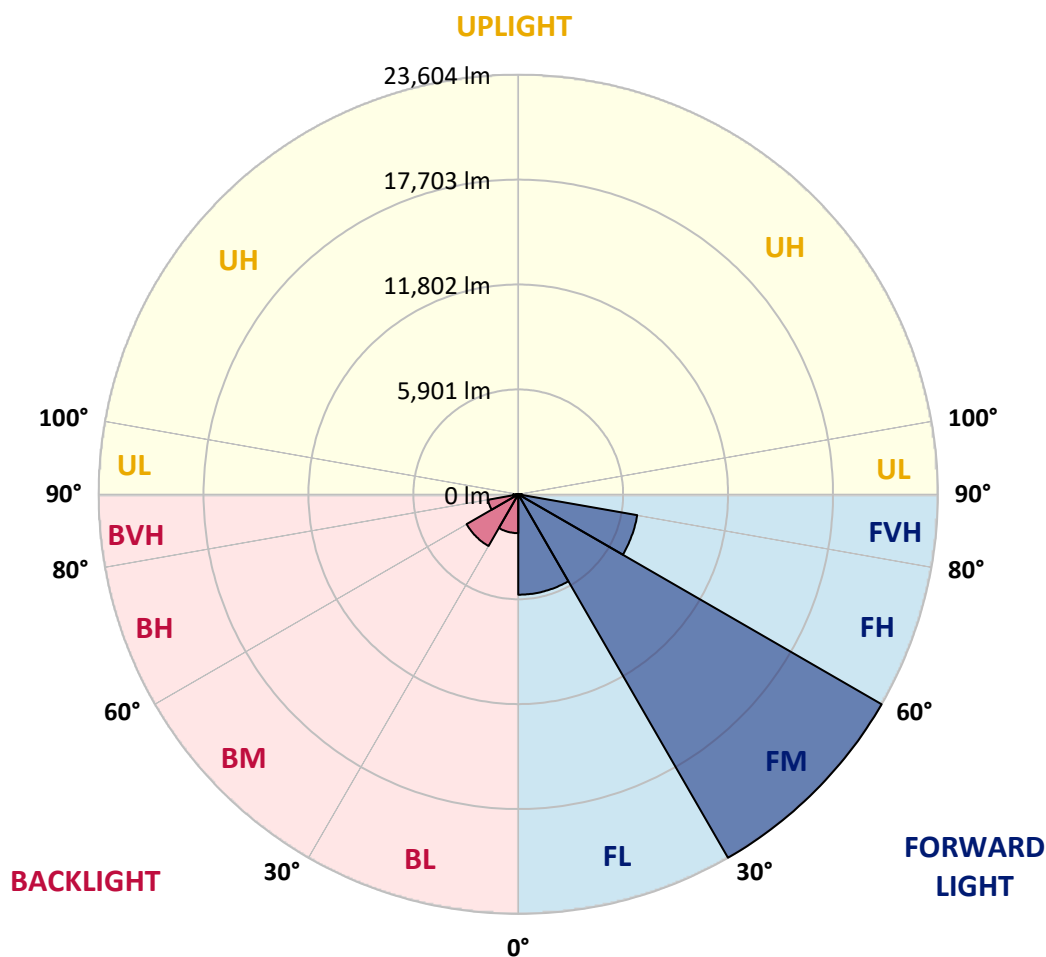
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5646.1	12.9			
FM	(30°-60°)	23604.4	53.9			
FH	(60°-80°)	6796.1	15.5			G3/7500
FVH	(80°-90°)	228.8	0.5			G3/500
BL	(0°-30°)	2184.7	5.0	B3/2500		
BM	(30°-60°)	3353.6	7.7	B3/5000		
BH	(60°-80°)	1726.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	290.8	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8
2.5°	11163.3	11265.7	11220.5	11063.9	10943.4	10773.2	10583.4	10526.1	10325.8	10101.3	9831.7
5°	12930.2	12879.0	12805.2	12561.2	12303.6	12003.8	11527.8	11452.5	11006.6	10499.0	9962.8
7.5°	13936.4	13931.9	13888.2	13745.1	13510.1	13118.5	12544.6	12455.7	11782.4	10966.0	10134.5
10°	13790.3	13779.8	13852.1	14001.2	14072.0	13990.7	13507.1	13418.3	12591.3	11482.6	10333.3
12.5°	12960.3	12966.4	13082.3	13395.7	13821.9	14334.1	14255.8	14212.1	13430.3	12067.1	10574.3
15°	12314.1	12327.7	12419.6	12692.2	13195.3	14124.7	14710.7	14725.7	14242.2	12711.8	10856.0
17.5°	12030.9	12059.6	12101.7	12293.0	12754.0	13707.5	14819.1	14900.5	14953.2	13380.6	11127.1
20°	12121.3	12148.4	12160.5	12282.5	12660.6	13454.4	14743.8	14889.9	15498.5	14010.2	11398.3
22.5°	12526.5	12543.1	12550.6	12582.2	12876.0	13526.7	14694.1	14847.7	15893.1	14575.1	11603.1
25°	13198.3	13186.3	13138.1	13097.4	13294.7	13812.9	14808.6	14954.7	16214.0	15087.2	11737.2
27.5°	14002.7	13987.6	13894.2	13782.8	13895.8	14258.8	15138.5	15254.4	16501.7	15566.3	11805.0
30°	14968.3	14929.1	14752.8	14620.3	14664.0	14927.6	15682.2	15787.7	16946.0	16110.0	11871.3
32.5°	16084.4	16042.3	15787.7	15567.8	15567.8	15787.7	16242.6	16330.0	17322.6	16724.6	11978.2
35°	17482.3	17429.6	17098.2	16729.1	16625.2	16736.7	17006.3	17068.1	18000.5	17498.9	12172.5
37.5°	19130.2	19059.4	18630.1	18136.0	17908.6	17902.6	18096.9	18223.4	19083.5	18515.6	12502.4
40°	20782.6	20732.9	20357.8	19969.2	19523.3	19380.2	19680.0	19719.2	20499.4	19777.9	12924.2
42.5°	22060.0	22050.9	21981.7	22032.9	21576.5	21287.2	21522.2	21553.9	22228.7	21144.1	13373.1
45°	22734.8	22749.9	23085.8	23829.9	23998.6	23787.7	23903.7	23912.7	24205.0	22522.4	13784.3
47.5°	22194.0	22272.4	23121.9	24786.4	26167.7	26868.1	26675.3	26786.8	26121.0	23706.4	14106.6
50°	20086.7	20183.1	21629.2	24360.1	27179.9	29849.1	29748.2	29722.6	27666.5	24574.0	14281.4
52.5°	17476.3	17551.6	18744.6	22144.3	26437.3	31497.0	32423.4	32290.9	29040.2	25223.2	14314.5
55°	13501.1	13618.6	14761.9	17721.8	23433.7	30867.4	34390.7	34271.7	30292.0	25563.7	14275.3
57°	9598.2	9721.8	10857.5	13525.2	19713.1	28687.8	34586.5	34713.0	30968.3	25620.9	14319.0
57.5°	8564.9	8691.4	9816.7	12407.5	18553.3	27900.0	34417.8	34628.7	31090.3	25611.9	14343.1
60°	4312.6	4360.8	5077.8	6926.0	11728.2	22555.6	32217.1	32760.8	31200.3	25169.0	14447.1
62.5°	2681.2	2646.6	2624.0	3190.4	5705.9	14957.7	27675.5	28722.4	29096.0	24096.5	14195.5
65°	2357.4	2292.6	2044.1	1998.9	2520.1	7265.0	20841.4	22144.3	24599.6	22406.4	13596.0
67.5°	2214.3	2151.0	1870.8	1702.1	1703.6	2880.1	12939.2	14406.4	19163.3	19549.0	12181.6
70°	2066.7	2009.4	1747.3	1548.5	1450.6	1595.2	5953.0	7066.1	12491.9	15365.9	10181.2
72.5°	1876.9	1837.7	1589.2	1384.3	1280.4	1194.5	2279.1	2691.8	7231.8	10319.8	7070.6
75°	1678.0	1641.9	1429.5	1233.7	1107.1	939.9	1283.4	1382.8	3673.9	5279.6	3481.1
77.5°	1459.6	1438.5	1271.3	1090.6	989.6	778.8	908.3	956.5	1575.6	2264.0	1745.8
80°	1161.4	1202.0	1111.7	971.6	878.2	623.6	643.2	674.8	917.3	1105.6	991.2
82.5°	756.2	827.0	870.6	789.3	723.0	491.1	462.4	476.0	598.0	674.8	430.8
85°	314.8	354.0	572.4	516.7	480.5	358.5	310.3	316.3	370.6	384.1	176.2
87.5°	140.1	149.1	251.6	236.5	203.4	123.5	132.6	144.6	197.3	186.8	67.8
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°	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8	9721.8
2.5°	9730.8	9604.3	9387.4	9147.8	8952.0	8795.4	8637.2	8528.8	8402.2	8334.4	8299.8
5°	9738.3	9489.8	9033.4	8564.9	8146.2	7763.5	7399.0	7118.8	6856.7	6715.2	6676.0
7.5°	9770.0	9396.4	8658.3	7887.1	7142.9	6463.6	5939.4	5611.0	5374.5	5269.1	5239.0
10°	9795.6	9286.4	8194.4	7052.6	6040.3	5351.9	4945.2	4761.5	4680.1	4666.6	4653.0
12.5°	9855.8	9173.5	7706.3	6181.9	5183.2	4707.2	4565.6	4553.6	4576.2	4609.3	4609.3
15°	9950.7	9062.0	7149.0	5434.8	4637.9	4470.7	4499.4	4565.6	4627.4	4678.6	4686.1
17.5°	10020.0	8924.9	6549.5	4836.8	4347.2	4392.4	4494.8	4588.2	4651.5	4701.2	4705.7
20°	10069.7	8712.5	5909.3	4380.4	4180.0	4320.1	4448.1	4531.0	4574.7	4624.4	4631.9
22.5°	10044.1	8427.8	5341.4	4053.5	4044.5	4214.7	4336.7	4436.1	4403.0	4354.8	4386.4
25°	9920.6	8036.2	4756.9	3809.5	3901.4	4073.1	4223.7	4157.4	4046.0	4024.9	4036.9
27.5°	9700.7	7536.1	4216.2	3583.5	3735.7	3942.0	3933.0	3866.7	3827.5	3800.4	3817.0
30°	9464.2	6993.8	3743.2	3386.2	3551.9	3722.1	3687.5	3686.0	3646.8	3603.1	3624.2
32.5°	9230.7	6448.5	3368.1	3223.5	3413.3	3435.9	3511.2	3533.8	3457.0	3365.1	3359.1
35°	9027.3	5933.4	3083.4	3075.9	3246.1	3249.1	3359.1	3327.4	3136.1	3041.2	3041.2
37.5°	8875.2	5419.7	2866.5	2943.3	3026.2	3104.5	3160.2	3029.2	2997.6	2944.8	2943.3
40°	8808.9	4967.8	2730.9	2842.4	2871.0	2970.5	2827.4	2878.6	2893.6	2866.5	2866.5
42.5°	8739.6	4574.7	2613.5	2765.6	2761.1	2747.5	2675.2	2741.5	2801.7	2803.3	2798.7
45°	8670.3	4235.8	2509.5	2601.4	2664.7	2518.6	2532.1	2602.9	2687.3	2717.4	2717.4
47.5°	8593.5	3967.6	2414.6	2428.2	2526.1	2428.2	2417.6	2471.9	2571.3	2619.5	2630.0
50°	8424.8	3726.6	2306.2	2276.0	2303.2	2336.3	2345.3	2370.9	2480.9	2557.7	2575.8
52.5°	8191.3	3511.2	2167.6	2136.0	2136.0	2261.0	2303.2	2310.7	2404.1	2496.0	2514.0
55°	7997.0	3374.1	2024.5	2018.5	2012.4	2181.1	2253.4	2265.5	2330.3	2402.6	2411.6
57°	8010.6	3363.6	1914.5	1920.6	1919.0	2099.8	2206.8	2232.4	2265.5	2327.3	2337.8
57.5°	8018.1	3371.1	1890.4	1893.4	1891.9	2077.2	2193.2	2221.8	2247.4	2312.2	2322.7
60°	8131.1	3390.7	1792.5	1759.4	1766.9	1956.7	2116.4	2152.5	2169.1	2255.0	2268.5
62.5°	7963.9	3303.3	1714.2	1634.4	1634.4	1830.2	2009.4	2066.7	2092.3	2208.3	2230.9
65°	7478.9	3057.8	1622.3	1492.8	1507.8	1703.6	1881.4	1974.8	2013.9	2158.5	2182.7
67.5°	6730.2	2773.1	1524.4	1366.2	1381.3	1571.1	1748.8	1849.8	1911.5	2104.3	2123.9
70°	5755.6	2425.2	1391.8	1232.2	1250.2	1426.5	1592.2	1706.7	1798.5	2053.1	2059.1
72.5°	4243.3	1988.3	1206.6	1084.5	1104.1	1257.8	1434.0	1566.6	1690.1	1925.1	1922.1
75°	2523.1	1554.5	1001.7	935.4	949.0	1092.1	1290.9	1452.1	1637.4	1875.4	1904.0
77.5°	1530.4	1170.4	816.4	783.3	799.9	946.0	1188.5	1360.2	1614.8	1768.4	1759.4
80°	924.9	836.0	652.2	631.1	647.7	808.9	1099.6	1290.9	1411.4	1510.8	1510.8
82.5°	483.5	510.6	479.0	462.4	485.0	656.8	1000.2	1126.7	1247.2	1071.0	1000.2
85°	197.3	266.6	290.7	289.2	302.8	454.9	863.1	964.0	804.4	763.7	781.8
87.5°	66.3	113.0	141.6	122.0	128.0	286.2	598.0	465.5	552.8	385.6	366.0
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)