

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: P841877

Luminaire Tested: **ARCH4-240-727-U-T2U**

Issue Date: 5/27/2024

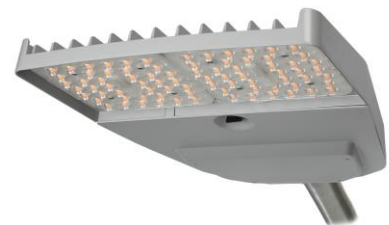
Test Information

Test Method: LM-79-08
Report Number: P841877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34603 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 240.2
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

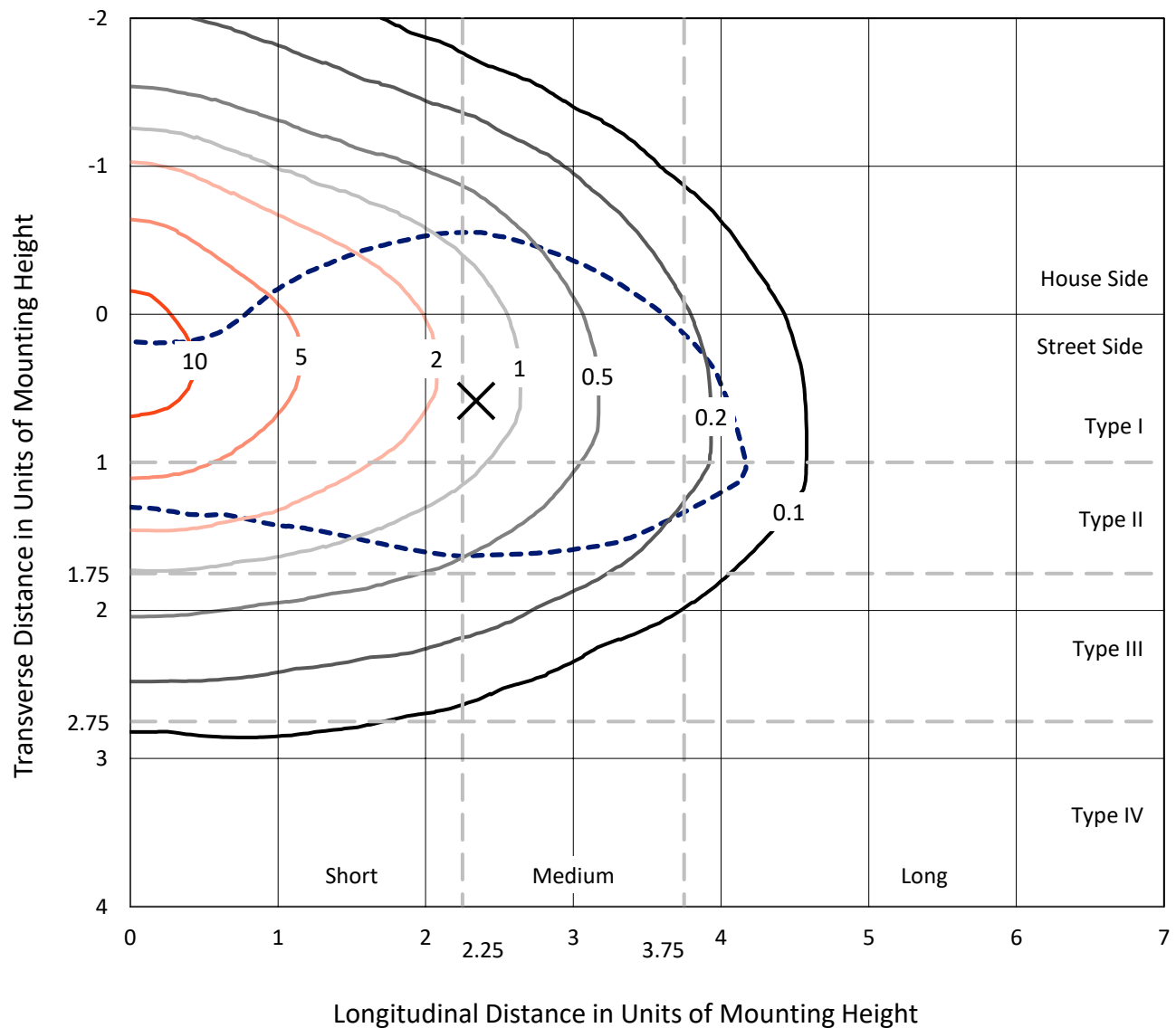


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Iso-Footcandle Lines of Horizontal Illumination

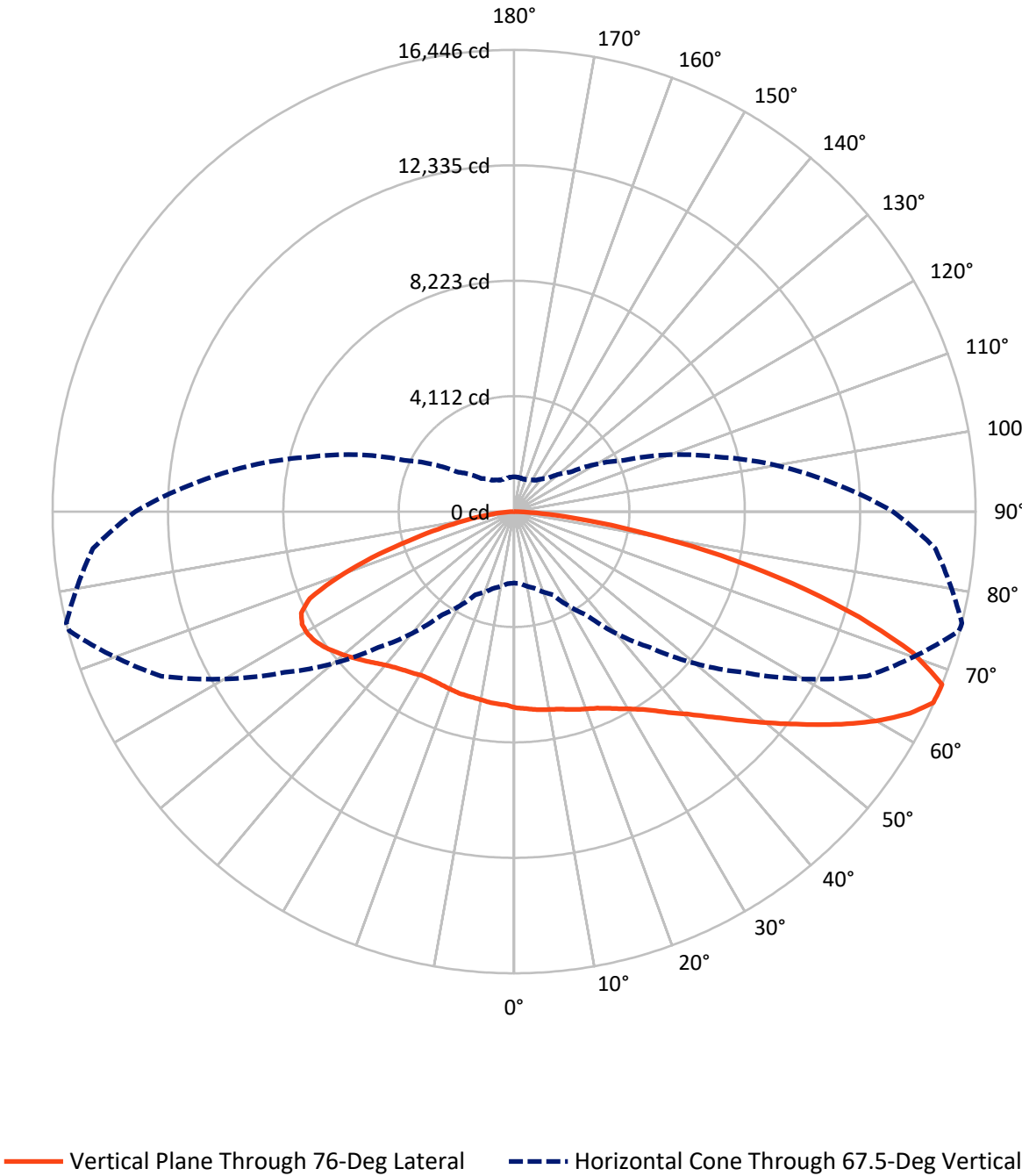
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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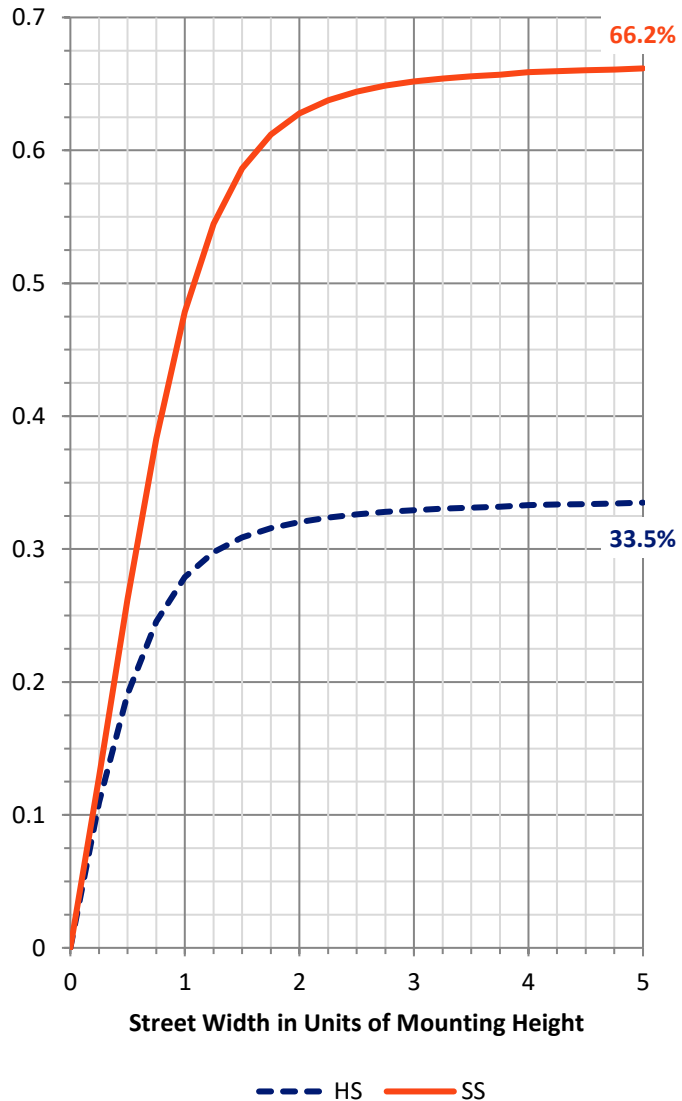
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11692.5	0.0	11692.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	22910.5	0.0	22910.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	34603.0	0.0	34603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.0	1.9
10°-20°	2060.5	6.0
20°-30°	3500.9	10.1
30°-40°	4981.4	14.4
40°-50°	6291.3	18.2
50°-60°	6811.5	19.7
60°-70°	6335.4	18.3
70°-80°	3402.7	9.8
80°-90°	545.2	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°	34603.0	100.0
0°-180°	34603.0	100.0

Coefficient of Utilization



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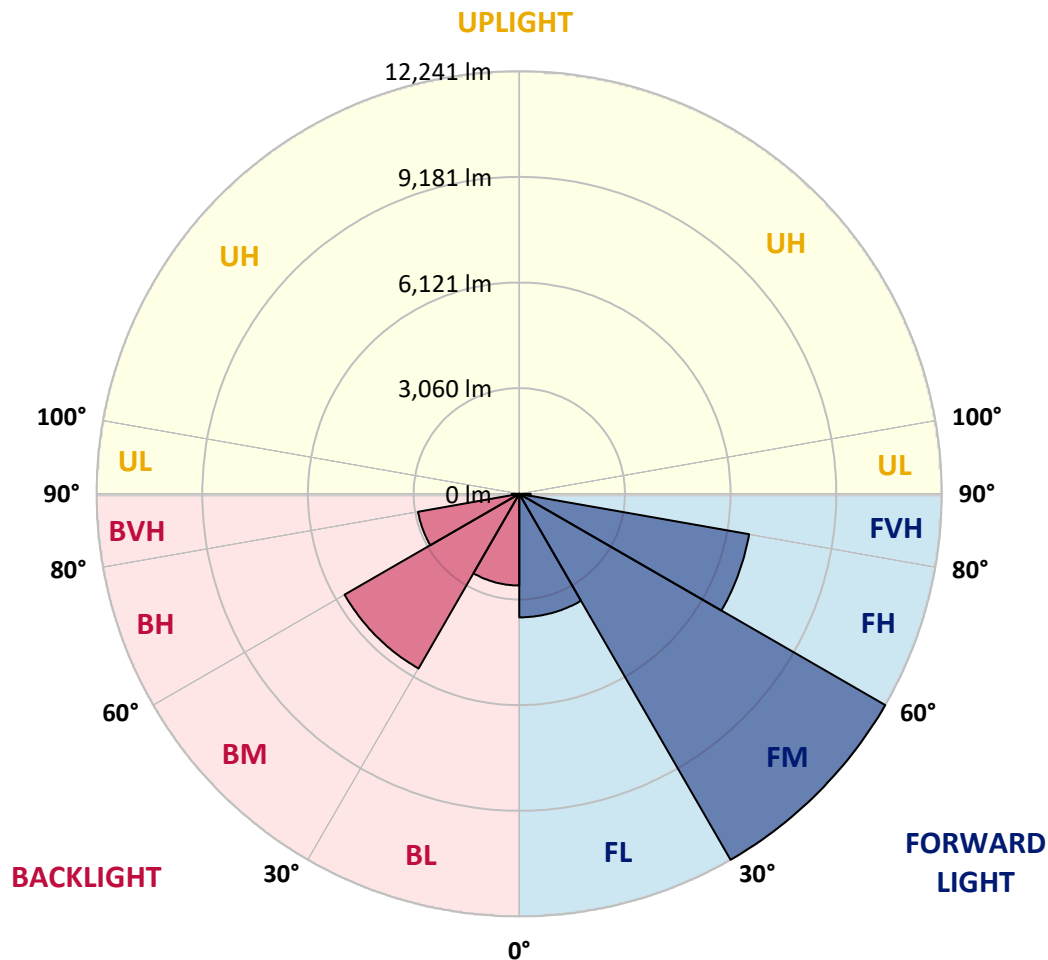
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3578.3	10.3			
FM	(30°-60°)	12241.2	35.4			
FH	(60°-80°)	6761.1	19.5			G3/7500
FVH	(80°-90°)	329.8	1.0			G3/500
BL	(0°-30°)	2657.2	7.7	B4/5000		
BM	(30°-60°)	5842.9	16.9	B4/8500		
BH	(60°-80°)	2977.0	8.6	B4/5000		G4/5000
BVH	(80°-90°)	215.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7
2.5°	7201.7	7188.9	7137.5	7143.9	7143.9	7137.5	7060.4	7028.3	7028.3	7021.9	6951.2
5°	7458.7	7439.4	7381.6	7368.8	7343.1	7310.9	7188.9	7118.2	7086.1	7079.7	6983.3
7.5°	7760.7	7735.0	7664.3	7625.7	7561.5	7478.0	7323.8	7214.6	7137.5	7131.1	6996.2
10°	8062.6	8036.9	7953.4	7882.7	7792.8	7657.9	7458.7	7298.1	7176.0	7163.2	7002.6
12.5°	8422.4	8396.7	8293.9	8203.9	8069.0	7889.1	7625.7	7407.3	7240.3	7221.0	7021.9
15°	8801.4	8762.9	8660.1	8557.3	8390.2	8159.0	7844.2	7555.1	7343.1	7310.9	7079.7
17.5°	9116.2	9064.8	8981.3	8878.5	8692.2	8422.4	8062.6	7702.8	7439.4	7413.7	7137.5
20°	9386.0	9347.5	9257.5	9161.2	8962.0	8666.5	8268.2	7850.6	7529.4	7497.3	7182.5
22.5°	9643.0	9591.6	9540.2	9469.5	9251.1	8923.5	8505.9	8030.5	7645.0	7606.5	7240.3
25°	9938.5	9880.7	9861.4	9822.9	9565.9	9231.8	8795.0	8255.3	7805.6	7760.7	7343.1
27.5°	10304.7	10240.5	10201.9	10201.9	9893.6	9546.6	9103.4	8518.7	7991.9	7953.4	7471.6
30°	10690.2	10613.1	10555.3	10555.3	10208.3	9861.4	9405.3	8782.1	8203.9	8159.0	7638.6
32.5°	11030.7	10953.6	10889.3	10882.9	10523.1	10176.2	9720.1	9071.2	8460.9	8403.1	7844.2
35°	11294.1	11223.4	11165.6	11178.4	10837.9	10497.4	10073.4	9456.7	8782.1	8717.9	8114.0
37.5°	11454.7	11429.0	11396.9	11441.8	11127.0	10805.8	10439.6	9829.3	9148.3	9090.5	8448.1
40°	11538.2	11518.9	11647.4	11705.2	11371.2	11082.1	10805.8	10214.8	9546.6	9482.4	8833.5
42.5°	11660.3	11820.9	11872.3	11859.4	11551.0	11294.1	11139.9	10632.4	10015.6	9957.8	9296.1
45°	11223.4	11184.9	11467.5	11621.7	11563.9	11429.0	11454.7	11133.5	10561.7	10503.9	9829.3
47.5°	10638.8	10587.4	10748.0	11127.0	11351.9	11480.4	11737.3	11653.8	11191.3	11139.9	10452.5
50°	9405.3	9476.0	10073.4	10581.0	11024.2	11467.5	11975.1	12212.8	11885.1	11833.7	11120.6
52.5°	8036.9	8107.6	8730.7	9900.0	10625.9	11371.2	12148.5	12771.7	12636.8	12578.9	11833.7
55°	7041.1	7195.3	7902.0	8750.0	10060.6	11069.2	12251.3	13343.4	13446.2	13394.8	12611.1
57.5°	6051.8	6167.4	6700.6	7452.3	9289.7	10542.4	12244.9	13876.7	14294.3	14242.9	13401.3
60°	4889.0	5036.7	5460.7	6270.2	8261.8	9912.8	12065.0	14294.3	15110.2	15071.6	14165.8
62.5°	4092.3	4137.3	4439.2	5139.5	6938.3	9116.2	11660.3	14519.1	15849.0	15823.3	14853.2
65°	3295.7	3302.1	3578.4	4163.0	5659.9	8126.8	10972.8	14435.6	16407.9	16420.7	15347.9
67.5°	2544.1	2576.2	2826.7	3270.0	4497.1	6842.0	9989.9	13870.2	16414.3	16446.4	15065.2
70°	1760.3	1786.0	2165.0	2595.5	3475.6	5454.3	8660.1	12373.4	15065.2	15090.9	13504.1
72.5°	1239.9	1252.8	1657.5	2075.1	2717.5	4111.6	6533.6	10234.0	12842.3	12861.6	11358.3
75°	925.1	938.0	1169.2	1574.0	2081.5	2846.0	4464.9	7837.7	10259.7	10259.7	8968.4
77.5°	655.3	661.7	758.1	1085.7	1387.7	1920.9	2685.4	5133.1	7529.4	7542.2	6533.6
80°	443.3	449.7	494.7	732.4	867.3	1040.8	1458.3	2691.8	4747.6	4766.9	4150.2
82.5°	231.3	244.1	276.2	372.6	436.9	578.2	751.7	1368.4	2627.6	2679.0	2492.7
85°	89.9	89.9	102.8	122.1	160.6	224.9	346.9	520.4	1188.5	1227.1	1098.6
87.5°	32.1	32.1	38.5	38.5	45.0	51.4	57.8	77.1	134.9	134.9	128.5
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°	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7	6989.7
2.5°	6925.5	6925.5	6893.4	6906.2	6899.8	6886.9	6874.1	6893.4	6874.1	6829.1	6822.7
5°	6938.3	6925.5	6874.1	6867.7	6848.4	6822.7	6790.6	6803.4	6771.3	6732.8	6726.3
7.5°	6944.8	6919.1	6848.4	6822.7	6784.1	6732.8	6681.4	6681.4	6636.4	6597.8	6591.4
10°	6931.9	6899.8	6803.4	6752.0	6681.4	6604.3	6533.6	6514.3	6462.9	6418.0	6418.0
12.5°	6938.3	6893.4	6771.3	6687.8	6591.4	6495.1	6405.1	6379.4	6334.4	6289.5	6283.0
15°	6976.9	6912.6	6758.5	6649.2	6507.9	6398.7	6302.3	6283.0	6244.5	6212.4	6212.4
17.5°	7015.4	6931.9	6739.2	6585.0	6411.5	6289.5	6199.5	6199.5	6173.8	6154.6	6154.6
20°	7034.7	6938.3	6700.6	6495.1	6295.9	6167.4	6083.9	6096.7	6090.3	6083.9	6083.9
22.5°	7079.7	6951.2	6668.5	6411.5	6173.8	6038.9	5961.8	5981.1	5974.7	5974.7	5981.1
25°	7150.3	6983.3	6642.8	6334.4	6058.2	5910.4	5826.9	5839.8	5839.8	5839.8	5839.8
27.5°	7246.7	7047.5	6636.4	6263.8	5942.6	5775.5	5672.7	5672.7	5647.0	5653.5	5659.9
30°	7394.5	7169.6	6649.2	6199.5	5820.5	5608.5	5486.4	5467.2	5460.7	5473.6	5480.0
32.5°	7574.3	7336.6	6726.3	6154.6	5692.0	5422.2	5268.0	5261.6	5242.3	5242.3	5242.3
35°	7799.2	7497.3	6797.0	6148.1	5563.5	5223.0	5056.0	5036.7	4991.7	4972.5	4972.5
37.5°	8088.3	7747.8	6880.5	6103.2	5454.3	5030.3	4831.1	4766.9	4715.5	4709.1	4709.1
40°	8441.6	8030.5	7002.6	6051.8	5338.7	4831.1	4567.7	4458.5	4464.9	4490.6	4490.6
42.5°	8859.2	8377.4	7156.8	6026.1	5171.6	4625.6	4259.4	4130.9	4175.8	4201.5	4208.0
45°	9347.5	8788.6	7330.2	5994.0	5017.4	4394.3	3931.7	3771.1	3790.4	3796.8	3803.2
47.5°	9912.8	9244.7	7510.1	5968.3	4844.0	4105.2	3572.0	3360.0	3353.5	3315.0	3327.8
50°	10503.9	9726.5	7696.4	5923.3	4632.0	3764.7	3192.9	2942.4	2891.0	2833.2	2839.6
52.5°	11133.5	10221.2	7869.9	5852.6	4368.6	3417.8	2833.2	2563.3	2460.5	2396.3	2409.1
55°	11827.3	10728.7	8036.9	5743.4	4092.3	3070.9	2511.9	2235.7	2107.2	2055.8	2062.2
57.5°	12463.3	11217.0	8159.0	5608.5	3790.4	2756.1	2229.3	1959.4	1875.9	1869.5	1875.9
60°	13080.0	11628.1	8210.4	5422.2	3482.0	2467.0	1965.9	1760.3	1702.5	1734.6	1741.0
62.5°	13600.4	11891.5	8184.7	5171.6	3167.2	2190.7	1753.9	1606.1	1567.5	1631.8	1638.2
65°	13902.4	11975.1	8004.8	4811.9	2826.7	1920.9	1554.7	1394.1	1374.8	1413.4	1432.6
67.5°	13504.1	11454.7	7516.5	4317.2	2447.7	1670.3	1362.0	1233.5	1201.4	1233.5	1233.5
70°	11968.6	9925.7	6360.1	3533.4	2030.1	1426.2	1182.1	1092.1	1066.4	1092.1	1085.7
72.5°	9970.6	8255.3	5011.0	2756.1	1599.7	1201.4	1027.9	944.4	918.7	893.0	880.1
75°	7735.0	6270.2	3636.2	2023.7	1207.8	963.7	860.9	783.8	719.5	745.2	732.4
77.5°	5666.3	4400.7	2576.2	1400.5	867.3	745.2	674.6	616.7	571.8	623.2	616.7
80°	3649.1	2846.0	1721.7	938.0	597.5	520.4	494.7	462.6	507.5	661.7	674.6
82.5°	2229.3	1805.3	1027.9	610.3	391.9	346.9	321.2	321.2	520.4	571.8	578.2
85°	995.8	957.2	558.9	314.8	218.4	199.2	179.9	231.3	212.0	154.2	160.6
87.5°	160.6	167.0	122.1	109.2	83.5	83.5	64.2	45.0	32.1	19.3	19.3
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)