

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: P841836

Luminaire Tested: **ARCH4-230-740-U-T4W**

Issue Date: 5/27/2024

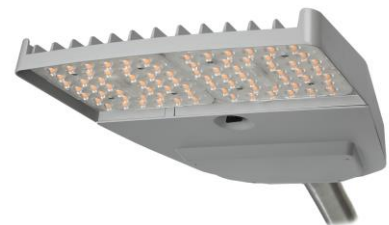
Test Information

Test Method: LM-79-08
Report Number: P841836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35552 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 231.2
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

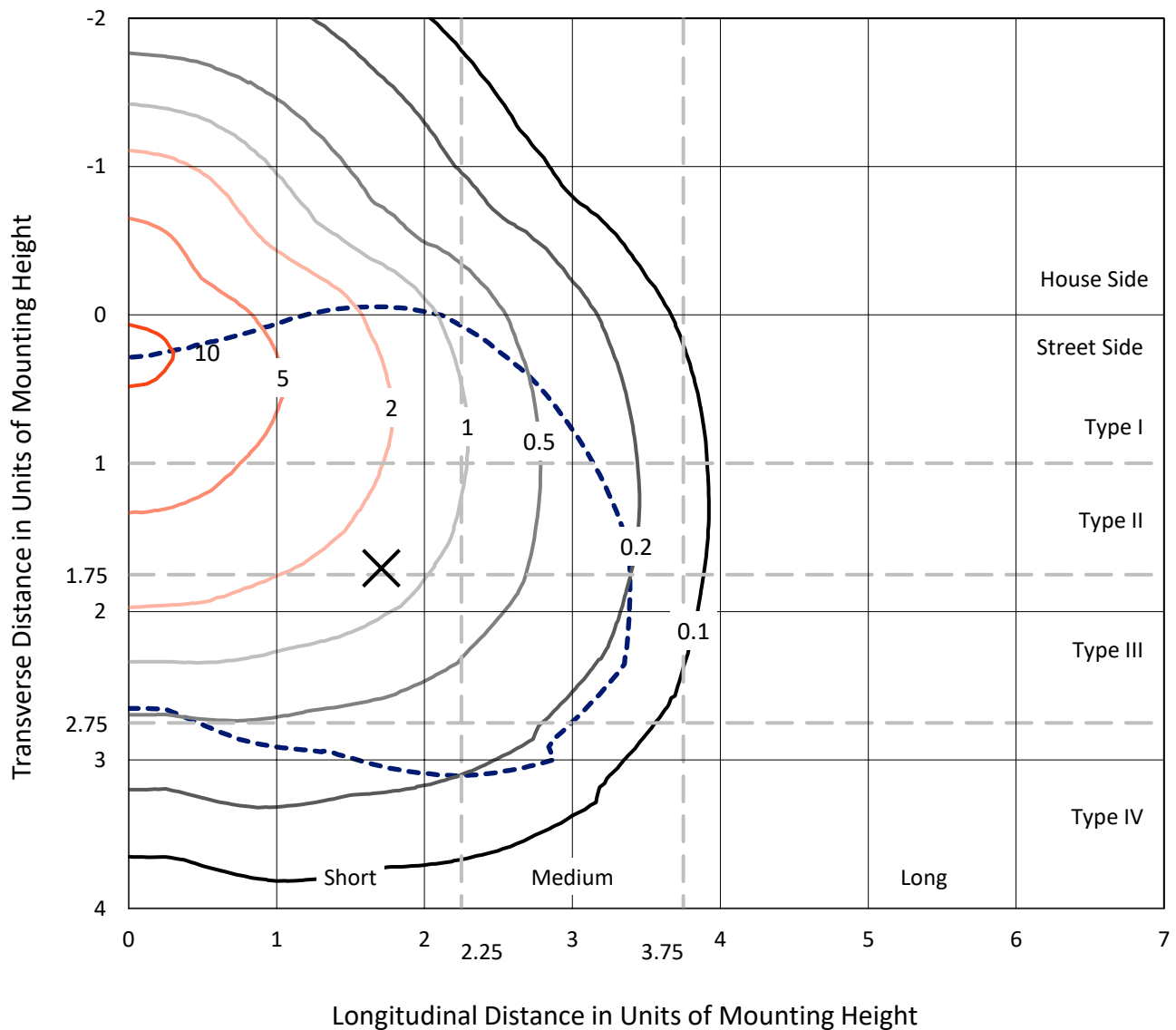


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

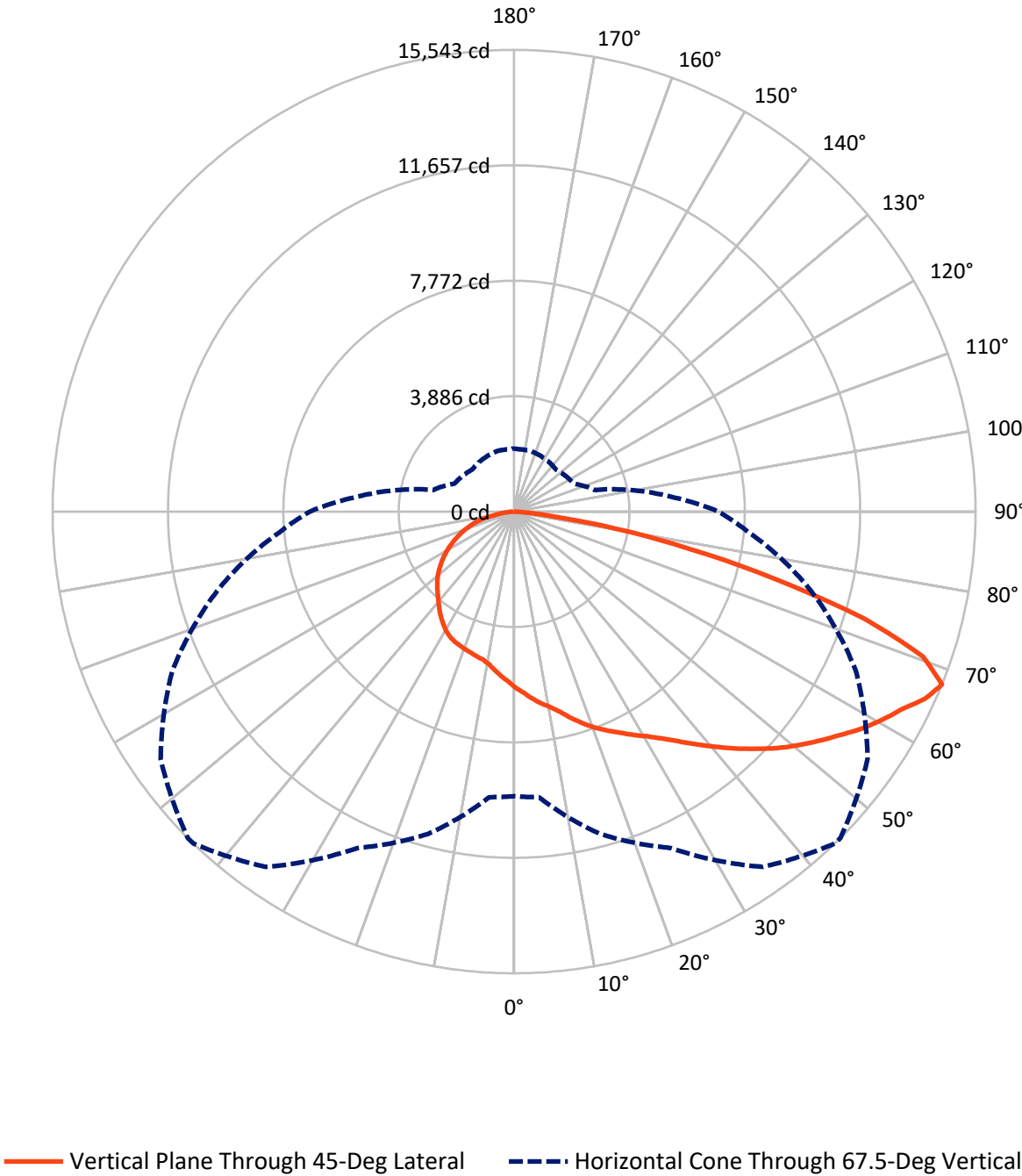


Based on 25 foot mounting height. Maximum calculated value = 11 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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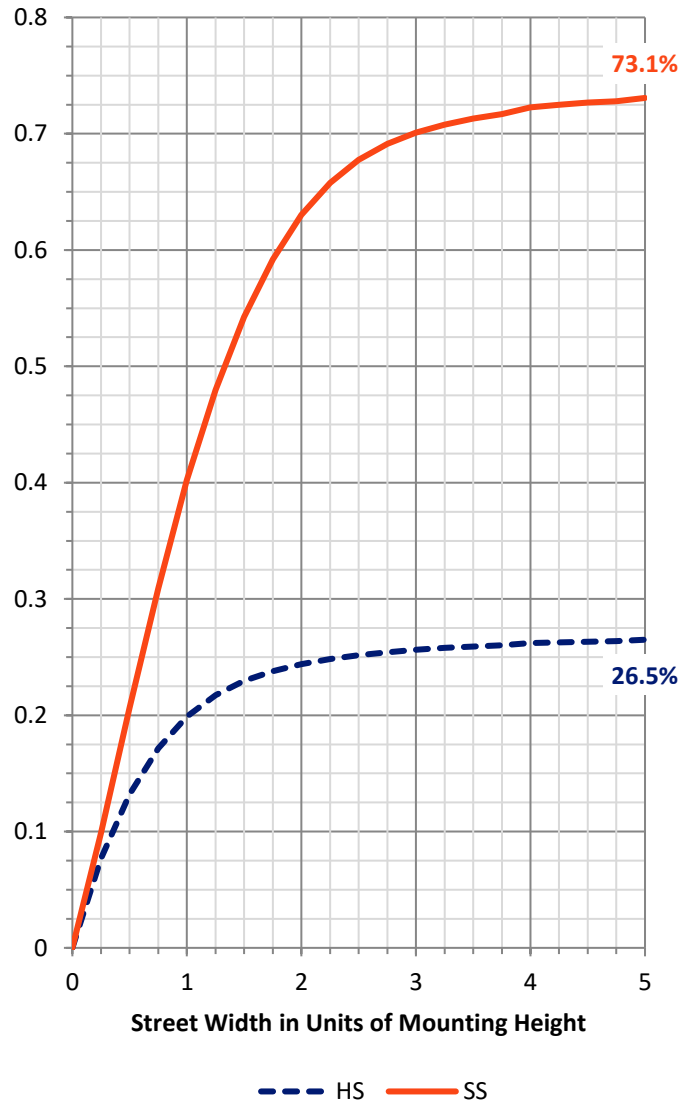
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9497.8	0.0	9497.8
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	26054.3	0.0	26054.3
	% Fixture	73.3	0.0	73.3
Total	Lumens	35552.0	0.0	35552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.7	1.6
10°-20°	1753.7	4.9
20°-30°	3027.1	8.5
30°-40°	4464.0	12.6
40°-50°	6047.8	17.0
50°-60°	7391.8	20.8
60°-70°	7623.6	21.4
70°-80°	4175.7	11.7
80°-90°	500.5	1.4
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°	35552.0	100.0
0°-180°	35552.0	100.0

Coefficient of Utilization



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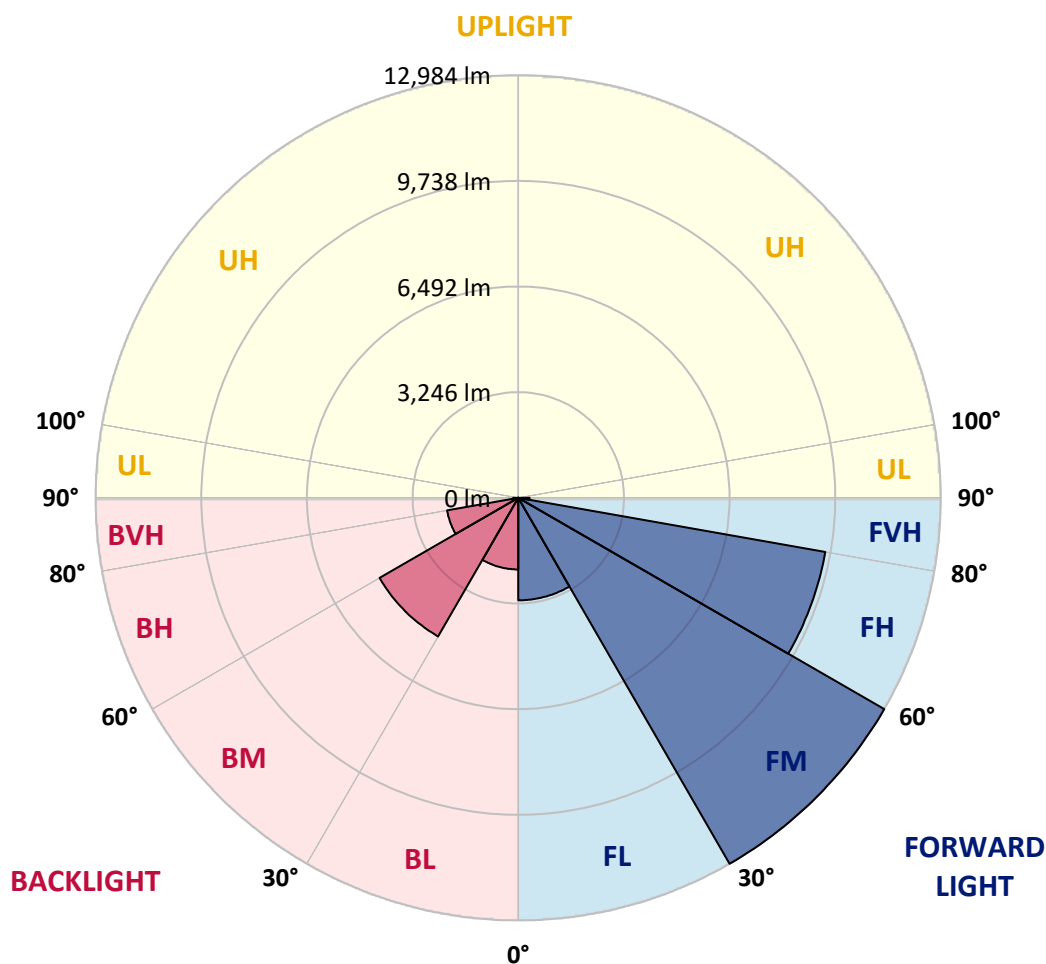
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3147.3	8.9			
FM	(30°-60°)	12983.9	36.5			
FH	(60°-80°)	9578.2	26.9			G4/12000
FVH	(80°-90°)	344.8	1.0			G3/500
BL	(0°-30°)	2201.3	6.2	B3/2500		
BM	(30°-60°)	4919.7	13.8	B3/5000		
BH	(60°-80°)	2221.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	155.7	0.4			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°	35°	44°	45°	55°	65°	75°	85°
0°	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4
2.5°	6189.1	6183.7	6194.5	6156.6	6107.9	6102.5	6102.5	6070.1	6032.2	5956.4	5896.9
5°	6481.2	6470.4	6475.8	6421.7	6356.8	6324.3	6318.9	6248.6	6162.0	6043.0	5934.8
7.5°	6751.7	6740.9	6735.5	6676.0	6578.6	6524.5	6519.1	6416.3	6313.5	6129.6	5972.7
10°	7006.0	6995.2	6984.4	6903.2	6784.2	6703.0	6692.2	6562.4	6432.5	6205.3	6005.1
12.5°	7330.6	7309.0	7298.1	7200.8	7027.6	6941.1	6924.8	6751.7	6589.4	6313.5	6070.1
15°	7671.4	7655.2	7639.0	7547.0	7352.2	7238.6	7211.6	6995.2	6773.4	6454.2	6167.4
17.5°	7925.7	7909.5	7909.5	7828.3	7649.8	7519.9	7498.3	7238.6	6962.7	6584.0	6243.2
20°	8082.6	8066.4	8082.6	8033.9	7898.7	7790.5	7768.8	7482.1	7152.1	6703.0	6308.1
22.5°	8196.2	8180.0	8207.0	8185.4	8088.0	8023.1	8006.9	7725.5	7346.8	6827.5	6373.0
25°	8396.4	8396.4	8396.4	8358.5	8266.5	8244.9	8244.9	8001.4	7595.7	6989.8	6470.4
27.5°	8796.7	8775.1	8748.0	8639.8	8482.9	8477.5	8510.0	8282.8	7882.4	7200.8	6589.4
30°	9386.4	9375.6	9272.8	9045.6	8780.5	8753.4	8775.1	8585.7	8190.8	7422.6	6724.7
32.5°	10149.2	10111.4	9900.4	9559.5	9180.8	9056.4	9099.7	8899.5	8515.4	7649.8	6854.5
35°	10690.2	10701.1	10549.6	10241.2	9792.2	9462.2	9494.6	9251.2	8867.0	7904.1	7016.8
37.5°	11312.4	11350.3	11123.0	10890.4	10473.8	9911.2	9943.6	9613.6	9218.7	8223.3	7189.9
40°	12172.6	12096.8	11712.7	11436.8	10977.0	10381.9	10408.9	10019.4	9624.5	8526.2	7390.1
42.5°	12892.1	12756.9	12291.6	11939.9	11388.1	10879.6	10906.6	10457.6	10035.6	8861.6	7611.9
45°	13925.4	13552.1	12881.3	12708.2	11810.1	11366.5	11393.5	10922.9	10468.4	9218.7	7850.0
47.5°	14525.9	13930.8	13503.4	13411.5	12275.4	11869.6	11902.1	11415.2	10933.7	9624.5	8098.8
50°	14488.1	14104.0	13979.5	13752.3	12686.5	12340.3	12372.8	11923.7	11404.4	10024.8	8336.9
52.5°	14239.2	14309.5	14244.6	13865.9	13097.7	12794.7	12832.6	12426.9	11885.8	10398.1	8558.7
55°	14623.3	14672.0	14547.6	14049.9	13552.1	13249.2	13292.5	12957.0	12361.9	10728.1	8748.0
57.5°	15083.2	14910.1	14785.6	14374.5	14022.8	13741.5	13790.2	13498.0	12773.1	10993.2	8894.1
60°	15061.5	14699.1	14823.5	14396.1	14342.0	14195.9	14239.2	13941.7	13086.9	11188.0	8953.6
62.5°	13952.5	13757.7	14385.3	14239.2	14601.7	14601.7	14655.8	14212.2	13276.2	11269.1	8921.1
65°	12026.5	12037.3	13141.0	13746.9	14910.1	15158.9	15202.2	14379.9	13168.0	11031.1	8618.2
67.5°	9581.2	9651.5	11236.6	12497.2	14601.7	15537.6	15543.0	14531.4	12702.8	10360.2	7914.9
70°	7011.4	7065.5	8937.4	10468.4	13146.4	14699.1	14612.5	14104.0	11691.1	9191.7	6816.6
72.5°	4739.2	4787.9	6713.9	8039.3	10787.6	12518.8	12329.5	12464.7	9965.3	7552.4	5480.4
75°	3186.5	3246.0	4777.1	5750.9	7936.5	9505.4	9083.5	9440.5	7709.3	5718.4	3998.0
77.5°	2007.1	2045.0	3035.0	3770.8	5420.9	6470.4	6048.4	6053.8	4441.6	3078.3	2147.8
80°	1276.8	1287.6	1839.4	2174.8	3137.8	3889.8	3440.8	2797.0	2001.7	1633.8	1282.2
82.5°	741.2	724.9	1098.2	1228.1	1493.2	1476.9	1222.7	1157.7	876.4	816.9	654.6
85°	297.6	275.9	481.5	449.0	454.4	481.5	357.1	357.1	286.7	221.8	162.3
87.5°	59.5	59.5	64.9	59.5	59.5	64.9	48.7	48.7	43.3	43.3	43.3
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°	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4	5929.4
2.5°	5886.1	5875.3	5848.2	5777.9	5740.0	5718.4	5685.9	5675.1	5669.7	5675.1	5691.4
5°	5902.3	5864.5	5788.7	5675.1	5599.4	5550.7	5496.6	5475.0	5458.7	5458.7	5475.0
7.5°	5913.2	5853.7	5723.8	5556.1	5447.9	5372.2	5307.2	5280.2	5274.8	5291.0	5296.4
10°	5918.6	5832.0	5648.1	5437.1	5296.4	5199.0	5134.1	5117.9	5134.1	5166.6	5172.0
12.5°	5956.4	5837.4	5604.8	5355.9	5188.2	5090.8	5042.2	5042.2	5085.4	5144.9	5150.4
15°	6021.4	5875.3	5583.2	5291.0	5117.9	5031.3	5015.1	5042.2	5107.1	5199.0	5209.9
17.5°	6070.1	5896.9	5534.5	5204.5	5025.9	4971.8	4998.9	5063.8	5155.8	5280.2	5291.0
20°	6102.5	5896.9	5464.1	5101.7	4934.0	4923.1	4998.9	5101.7	5199.0	5345.1	5361.3
22.5°	6135.0	5886.1	5383.0	4977.2	4831.2	4863.6	5004.3	5134.1	5231.5	5388.4	5415.4
25°	6194.5	5902.3	5301.8	4852.8	4723.0	4814.9	4998.9	5155.8	5258.6	5420.9	5464.1
27.5°	6275.6	5940.2	5242.3	4739.2	4614.8	4739.2	4961.0	5150.4	5258.6	5415.4	5464.1
30°	6362.2	5983.5	5172.0	4614.8	4490.3	4631.0	4879.9	5090.8	5215.3	5361.3	5420.9
32.5°	6454.2	6032.2	5112.5	4479.5	4338.8	4484.9	4760.8	4998.9	5134.1	5269.4	5334.3
35°	6578.6	6118.8	5080.0	4371.3	4203.6	4333.4	4609.4	4879.9	5025.9	5150.4	5226.1
37.5°	6730.1	6227.0	5063.8	4263.1	4057.5	4165.7	4447.0	4733.8	4890.7	4993.5	5063.8
40°	6903.2	6362.2	5058.4	4160.3	3911.5	3992.6	4279.3	4566.1	4717.6	4798.7	4858.2
42.5°	7098.0	6513.7	5047.6	4057.5	3765.4	3830.3	4117.0	4398.4	4528.2	4598.5	4652.6
45°	7303.5	6665.2	5025.9	3933.1	3608.5	3684.2	3949.3	4198.2	4333.4	4392.9	4452.5
47.5°	7509.1	6816.6	4982.6	3792.4	3467.8	3538.2	3770.8	3987.2	4095.4	4149.5	4209.0
50°	7709.3	6951.9	4879.9	3630.1	3321.8	3386.7	3565.2	3711.3	3792.4	3835.7	3895.2
52.5°	7887.8	7043.9	4733.8	3440.8	3175.7	3208.2	3327.2	3451.6	3516.5	3521.9	3576.0
55°	8039.3	7092.6	4522.8	3246.0	3018.8	3024.2	3089.1	3186.5	3213.6	3191.9	3229.8
57.5°	8125.9	7065.5	4290.2	3045.9	2856.5	2834.9	2883.5	2932.2	2937.6	2883.5	2921.4
60°	8147.5	6941.1	3987.2	2845.7	2694.2	2634.7	2650.9	2640.1	2629.3	2607.6	2640.1
62.5°	8039.3	6676.0	3651.8	2650.9	2521.1	2429.1	2423.7	2418.3	2434.5	2439.9	2445.3
65°	7644.4	6178.3	3251.4	2450.7	2337.1	2212.7	2207.3	2272.2	2293.9	2261.4	2272.2
67.5°	6881.6	5415.4	2813.2	2218.1	2104.5	1996.3	2039.6	2077.5	2115.3	2104.5	2115.3
70°	5799.6	4447.0	2412.9	1958.4	1850.2	1790.7	1839.4	1871.9	1877.3	1866.5	1877.3
72.5°	4560.7	3473.2	2039.6	1693.3	1596.0	1568.9	1628.4	1655.5	1704.2	1725.8	1731.2
75°	3294.7	2564.4	1671.7	1406.6	1325.5	1325.5	1379.6	1428.2	1471.5	1444.5	1428.2
77.5°	1839.4	1531.0	1201.0	968.4	984.6	1060.4	1082.0	1136.1	1179.4	1174.0	1163.2
80°	1114.5	957.6	811.5	627.6	622.2	681.7	822.3	914.3	935.9	887.2	881.8
82.5°	578.9	503.1	432.8	351.7	389.5	454.4	476.1	573.5	633.0	611.3	638.4
85°	146.1	140.7	156.9	162.3	200.2	221.8	243.5	286.7	189.4	92.0	92.0
87.5°	43.3	43.3	54.1	54.1	70.3	86.6	81.2	81.2	43.3	5.4	0.0
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)