

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: P836259

Luminaire Tested: **ARCH3-160-730-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21733 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 161
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

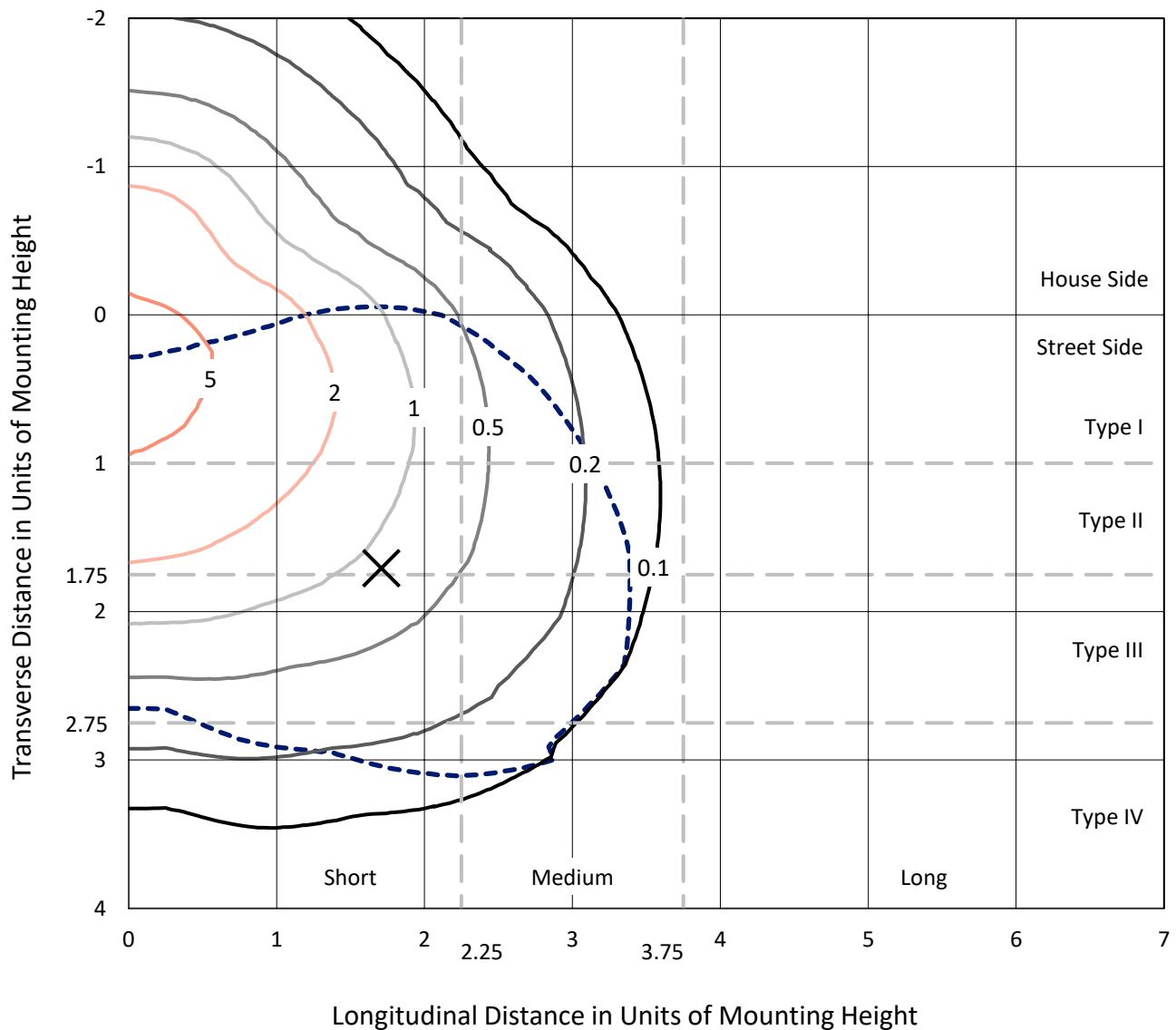


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Iso-Footcandle Lines of Horizontal Illumination

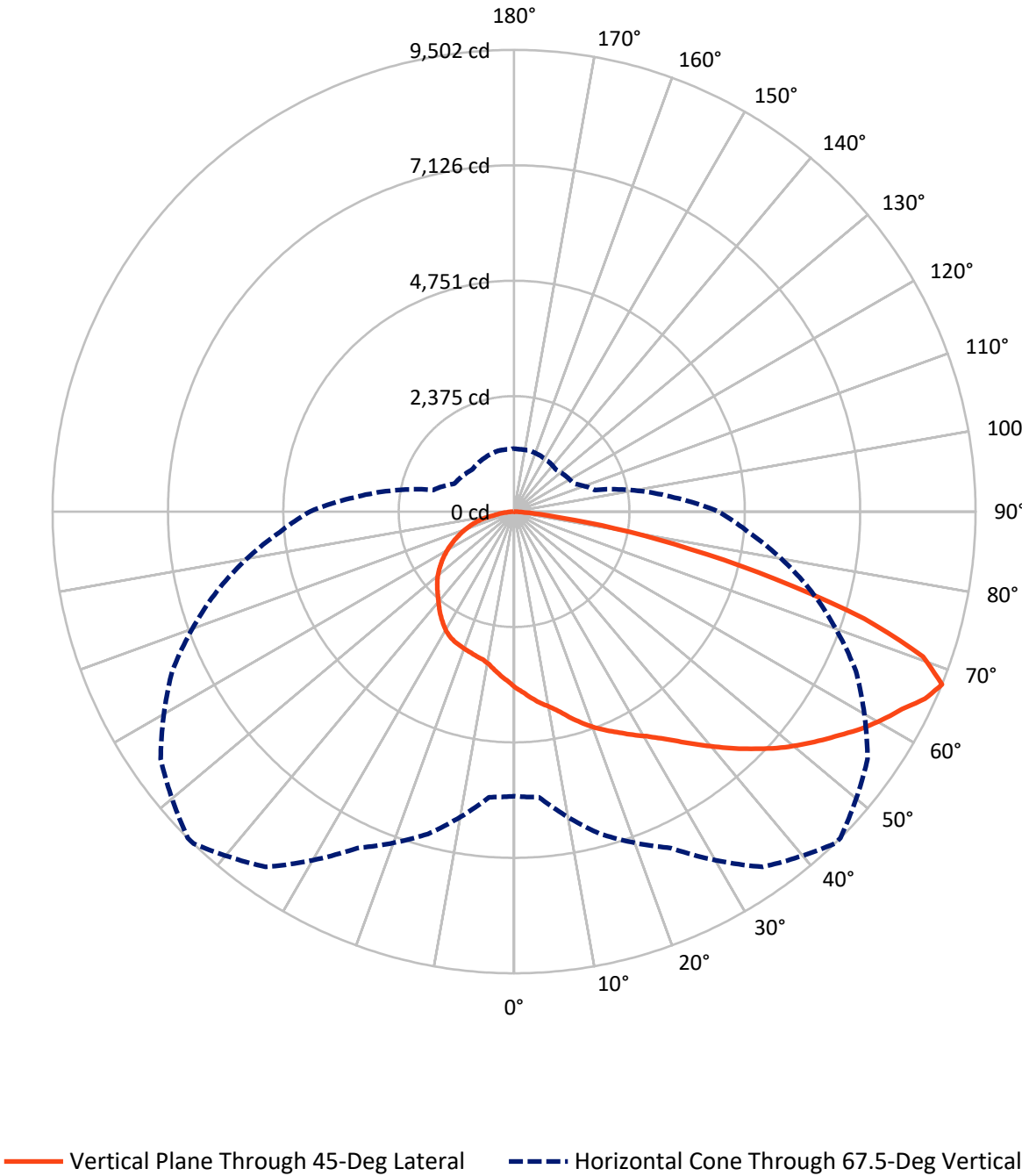
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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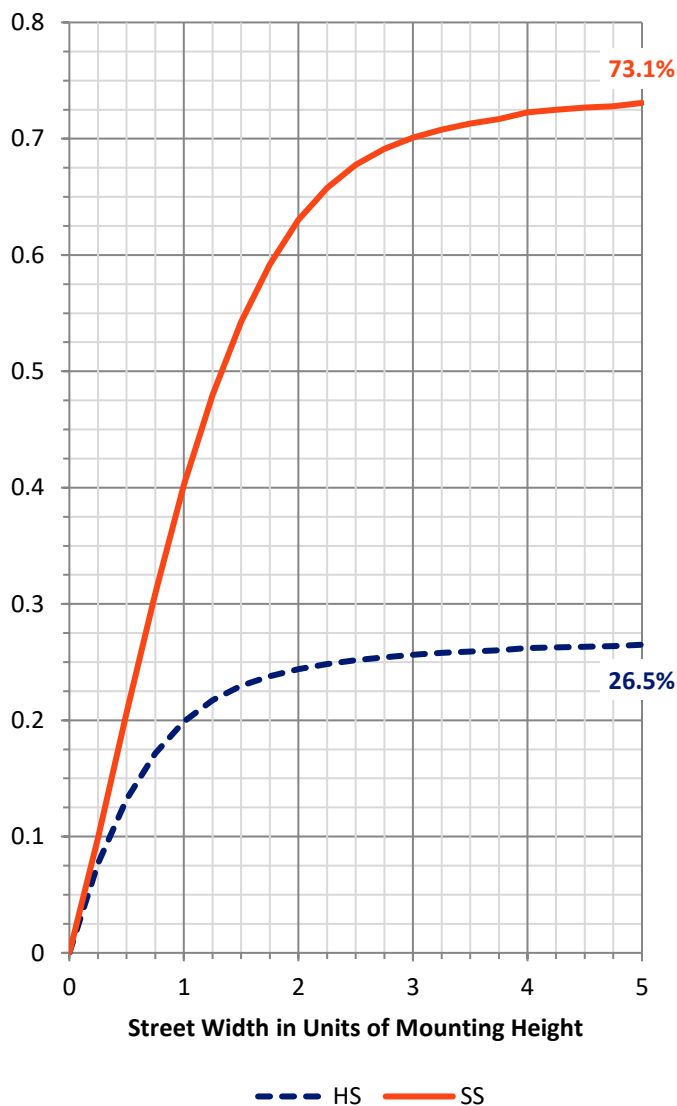
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5806.0	0.0	5806.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	15927.0	0.0	15927.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	21733.0	0.0	21733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.0	1.6
10°-20°	1072.1	4.9
20°-30°	1850.5	8.5
30°-40°	2728.8	12.6
40°-50°	3697.0	17.0
50°-60°	4518.6	20.8
60°-70°	4660.3	21.4
70°-80°	2552.6	11.7
80°-90°	306.0	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°	21733.0	100.0
0°-180°	21733.0	100.0

Coefficient of Utilization



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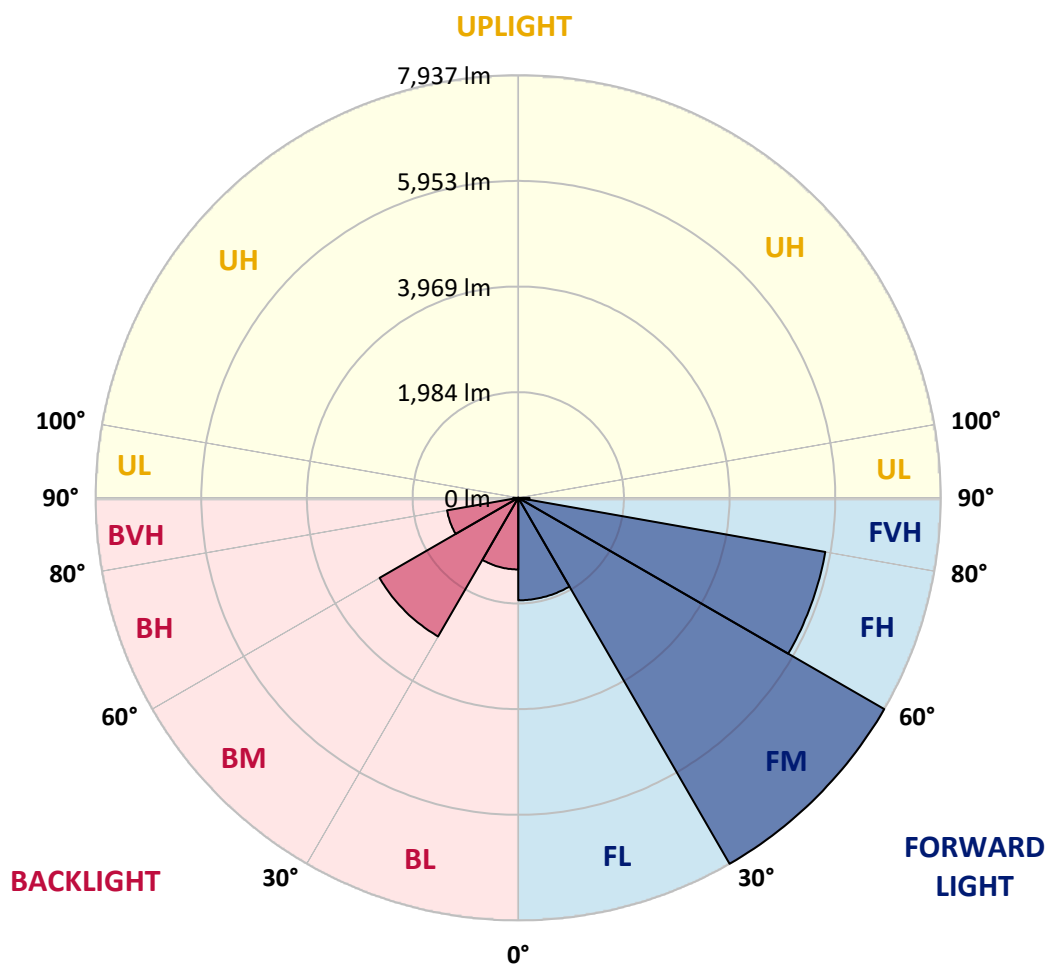
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1924.0	8.9			
FM	(30°-60°)	7937.1	36.5			
FH	(60°-80°)	5855.2	26.9			G3/7500
FVH	(80°-90°)	210.8	1.0			G2/225
BL	(0°-30°)	1345.6	6.2	B3/2500		
BM	(30°-60°)	3007.4	13.8	B3/5000		
BH	(60°-80°)	1357.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	95.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7
2.5°	3783.4	3780.1	3786.7	3763.6	3733.8	3730.5	3730.5	3710.6	3687.5	3641.2	3604.8
5°	3962.0	3955.4	3958.7	3925.6	3885.9	3866.1	3862.8	3819.8	3766.9	3694.1	3628.0
7.5°	4127.3	4120.7	4117.4	4081.0	4021.5	3988.4	3985.1	3922.3	3859.5	3747.0	3651.1
10°	4282.8	4276.2	4269.5	4219.9	4147.2	4097.6	4091.0	4011.6	3932.2	3793.3	3671.0
12.5°	4481.2	4468.0	4461.4	4401.8	4296.0	4243.1	4233.2	4127.3	4028.1	3859.5	3710.6
15°	4689.6	4679.6	4669.7	4613.5	4494.4	4425.0	4408.5	4276.2	4140.6	3945.4	3770.2
17.5°	4845.0	4835.1	4835.1	4785.5	4676.3	4597.0	4583.7	4425.0	4256.3	4024.8	3816.5
20°	4940.9	4931.0	4940.9	4911.1	4828.5	4762.3	4749.1	4573.8	4372.1	4097.6	3856.2
22.5°	5010.4	5000.4	5017.0	5003.7	4944.2	4904.5	4894.6	4722.6	4491.1	4173.6	3895.8
25°	5132.7	5132.7	5132.7	5109.6	5053.3	5040.1	5040.1	4891.3	4643.3	4272.9	3955.4
27.5°	5377.4	5364.2	5347.7	5281.5	5185.6	5182.3	5202.2	5063.3	4818.5	4401.8	4028.1
30°	5737.9	5731.3	5668.5	5529.6	5367.5	5351.0	5364.2	5248.5	5007.0	4537.4	4110.8
32.5°	6204.2	6181.1	6052.1	5843.8	5612.3	5536.2	5562.7	5440.3	5205.5	4676.3	4190.2
35°	6535.0	6541.6	6449.0	6260.5	5986.0	5784.2	5804.1	5655.3	5420.4	4831.8	4289.4
37.5°	6915.3	6938.4	6799.5	6657.3	6402.7	6058.7	6078.6	5876.8	5635.4	5026.9	4395.2
40°	7441.1	7394.8	7160.0	6991.3	6710.2	6346.4	6363.0	6124.9	5883.4	5212.1	4517.6
42.5°	7881.0	7798.3	7513.9	7298.9	6961.6	6650.7	6667.2	6392.7	6134.8	5417.1	4653.2
45°	8512.6	8284.4	7874.4	7768.5	7219.5	6948.4	6964.9	6677.2	6399.4	5635.4	4798.7
47.5°	8879.7	8515.9	8254.7	8198.5	7504.0	7255.9	7275.8	6978.1	6683.8	5883.4	4950.8
50°	8856.6	8621.8	8545.7	8406.8	7755.3	7543.6	7563.5	7289.0	6971.5	6128.2	5096.3
52.5°	8704.5	8747.4	8707.8	8476.3	8006.6	7821.4	7844.6	7596.6	7265.8	6356.4	5231.9
55°	8939.3	8969.0	8893.0	8588.7	8284.4	8099.2	8125.7	7920.7	7556.9	6558.1	5347.7
57.5°	9220.4	9114.5	9038.5	8787.1	8572.2	8400.2	8430.0	8251.4	7808.2	6720.2	5437.0
60°	9207.1	8985.6	9061.6	8800.4	8767.3	8678.0	8704.5	8522.6	8000.0	6839.2	5473.4
62.5°	8529.2	8410.1	8793.8	8704.5	8926.0	8926.0	8959.1	8687.9	8115.8	6888.8	5453.5
65°	7351.8	7358.4	8033.1	8403.5	9114.5	9266.7	9293.1	8790.4	8049.6	6743.3	5268.3
67.5°	5857.0	5900.0	6869.0	7639.5	8926.0	9498.2	9501.5	8883.0	7765.2	6333.2	4838.4
70°	4286.1	4319.2	5463.4	6399.4	8036.4	8985.6	8932.7	8621.8	7146.8	5618.9	4167.0
72.5°	2897.1	2926.8	4104.2	4914.4	6594.5	7652.8	7537.0	7619.7	6091.8	4616.8	3350.2
75°	1947.9	1984.3	2920.2	3515.5	4851.6	5810.7	5552.7	5771.0	4712.7	3495.7	2444.0
77.5°	1227.0	1250.1	1855.3	2305.1	3313.8	3955.4	3697.4	3700.7	2715.2	1881.8	1312.9
80°	780.5	787.1	1124.4	1329.5	1918.2	2377.9	2103.4	1709.8	1223.7	998.8	783.8
82.5°	453.1	443.2	671.4	750.7	912.8	902.9	747.4	707.7	535.8	499.4	400.2
85°	181.9	168.7	294.3	274.5	277.8	294.3	218.3	218.3	175.3	135.6	99.2
87.5°	36.4	36.4	39.7	36.4	36.4	39.7	29.8	29.8	26.5	26.5	26.5
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°	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7	3624.7
2.5°	3598.2	3591.6	3575.0	3532.1	3508.9	3495.7	3475.8	3469.2	3465.9	3469.2	3479.1
5°	3608.1	3585.0	3538.7	3469.2	3422.9	3393.2	3360.1	3346.9	3336.9	3336.9	3346.9
7.5°	3614.7	3578.4	3499.0	3396.5	3330.3	3284.0	3244.3	3227.8	3224.5	3234.4	3237.7
10°	3618.0	3565.1	3452.7	3323.7	3237.7	3178.2	3138.5	3128.6	3138.5	3158.3	3161.6
12.5°	3641.2	3568.4	3426.2	3274.1	3171.6	3112.0	3082.3	3082.3	3108.7	3145.1	3148.4
15°	3680.9	3591.6	3413.0	3234.4	3128.6	3075.7	3065.7	3082.3	3122.0	3178.2	3184.8
17.5°	3710.6	3604.8	3383.2	3181.5	3072.4	3039.3	3055.8	3095.5	3151.7	3227.8	3234.4
20°	3730.5	3604.8	3340.2	3118.7	3016.1	3009.5	3055.8	3118.7	3178.2	3267.5	3277.4
22.5°	3750.3	3598.2	3290.6	3042.6	2953.3	2973.1	3059.1	3138.5	3198.0	3293.9	3310.5
25°	3786.7	3608.1	3241.0	2966.5	2887.2	2943.4	3055.8	3151.7	3214.6	3313.8	3340.2
27.5°	3836.3	3631.3	3204.6	2897.1	2821.0	2897.1	3032.7	3148.4	3214.6	3310.5	3340.2
30°	3889.2	3657.7	3161.6	2821.0	2744.9	2830.9	2983.1	3112.0	3188.1	3277.4	3313.8
32.5°	3945.4	3687.5	3125.3	2738.3	2652.3	2741.6	2910.3	3055.8	3138.5	3221.2	3260.9
35°	4021.5	3740.4	3105.4	2672.2	2569.7	2649.0	2817.7	2983.1	3072.4	3148.4	3194.7
37.5°	4114.1	3806.5	3095.5	2606.0	2480.4	2546.5	2718.5	2893.8	2989.7	3052.5	3095.5
40°	4219.9	3889.2	3092.2	2543.2	2391.1	2440.7	2616.0	2791.2	2883.8	2933.5	2969.8
42.5°	4339.0	3981.8	3085.6	2480.4	2301.8	2341.5	2516.8	2688.7	2768.1	2811.1	2844.2
45°	4464.7	4074.4	3072.4	2404.3	2205.9	2252.2	2414.2	2566.4	2649.0	2685.4	2721.8
47.5°	4590.3	4167.0	3045.9	2318.3	2119.9	2162.9	2305.1	2437.4	2503.5	2536.6	2573.0
50°	4712.7	4249.7	2983.1	2219.1	2030.6	2070.3	2179.4	2268.7	2318.3	2344.8	2381.2
52.5°	4821.8	4305.9	2893.8	2103.4	1941.3	1961.1	2033.9	2110.0	2149.7	2153.0	2186.0
55°	4914.4	4335.7	2764.8	1984.3	1845.4	1848.7	1888.4	1947.9	1964.5	1951.2	1974.4
57.5°	4967.4	4319.2	2622.6	1861.9	1746.2	1733.0	1762.7	1792.5	1795.8	1762.7	1785.9
60°	4980.6	4243.1	2437.4	1739.6	1647.0	1610.6	1620.5	1613.9	1607.3	1594.1	1613.9
62.5°	4914.4	4081.0	2232.3	1620.5	1541.1	1484.9	1481.6	1478.3	1488.2	1491.5	1494.8
65°	4673.0	3776.8	1987.6	1498.1	1428.7	1352.6	1349.3	1389.0	1402.2	1382.4	1389.0
67.5°	4206.7	3310.5	1719.7	1355.9	1286.5	1220.3	1246.8	1270.0	1293.1	1286.5	1293.1
70°	3545.3	2718.5	1475.0	1197.2	1131.1	1094.7	1124.4	1144.3	1147.6	1141.0	1147.6
72.5°	2787.9	2123.2	1246.8	1035.1	975.6	959.1	995.5	1012.0	1041.8	1055.0	1058.3
75°	2014.1	1567.6	1021.9	859.9	810.3	810.3	843.3	873.1	899.5	883.0	873.1
77.5°	1124.4	935.9	734.2	592.0	601.9	648.2	661.4	694.5	721.0	717.7	711.0
80°	681.3	585.4	496.1	383.6	380.3	416.7	502.7	558.9	572.1	542.4	539.1
82.5°	353.9	307.6	264.6	215.0	238.1	277.8	291.0	350.6	386.9	373.7	390.2
85°	89.3	86.0	95.9	99.2	122.4	135.6	148.8	175.3	115.8	56.2	56.2
87.5°	26.5	26.5	33.1	33.1	43.0	52.9	49.6	49.6	26.5	3.3	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)