

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: P841152

Luminaire Tested: **ARCH4-140-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841152
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: ARCH4-140-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19960 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.3
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



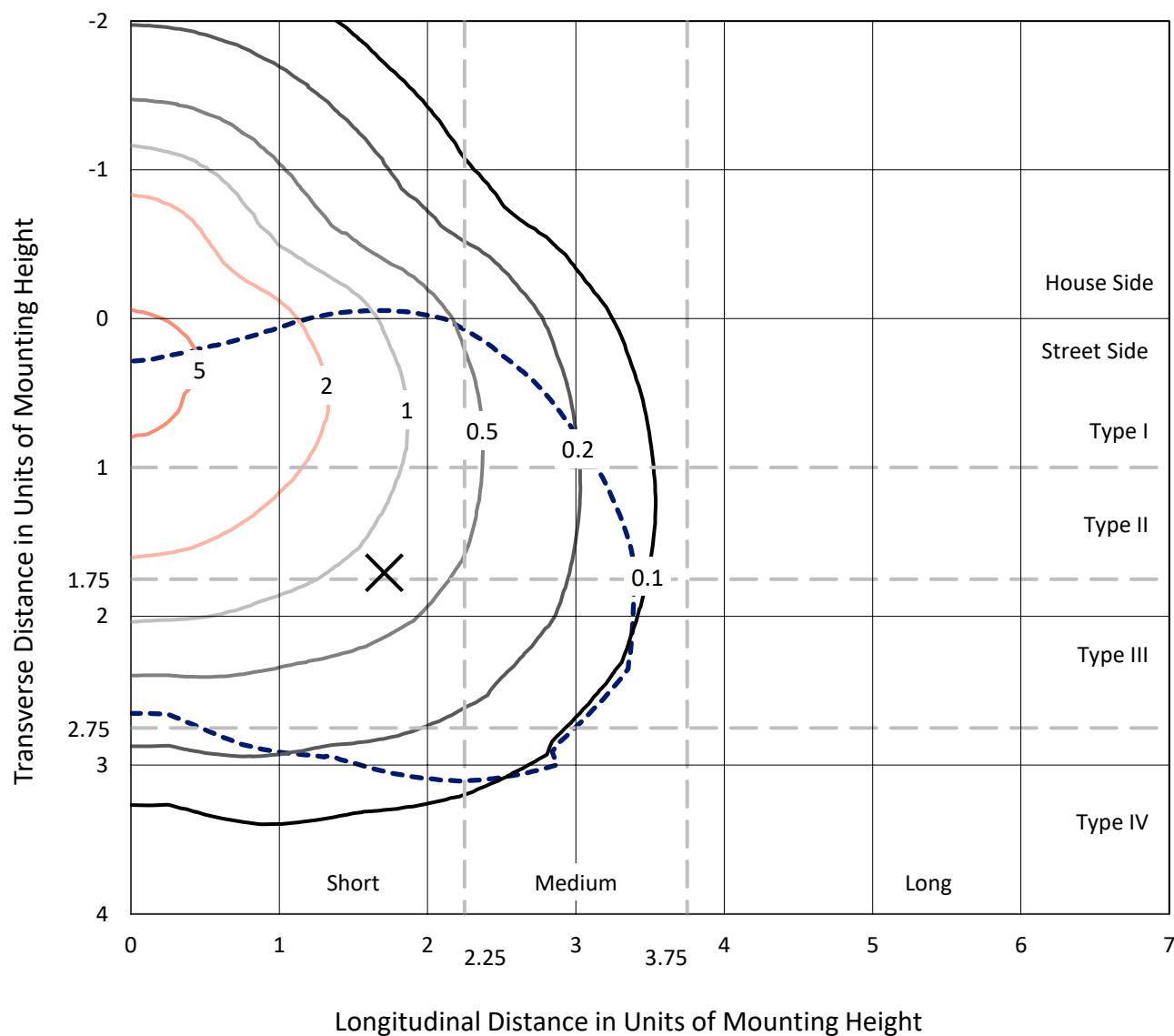
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

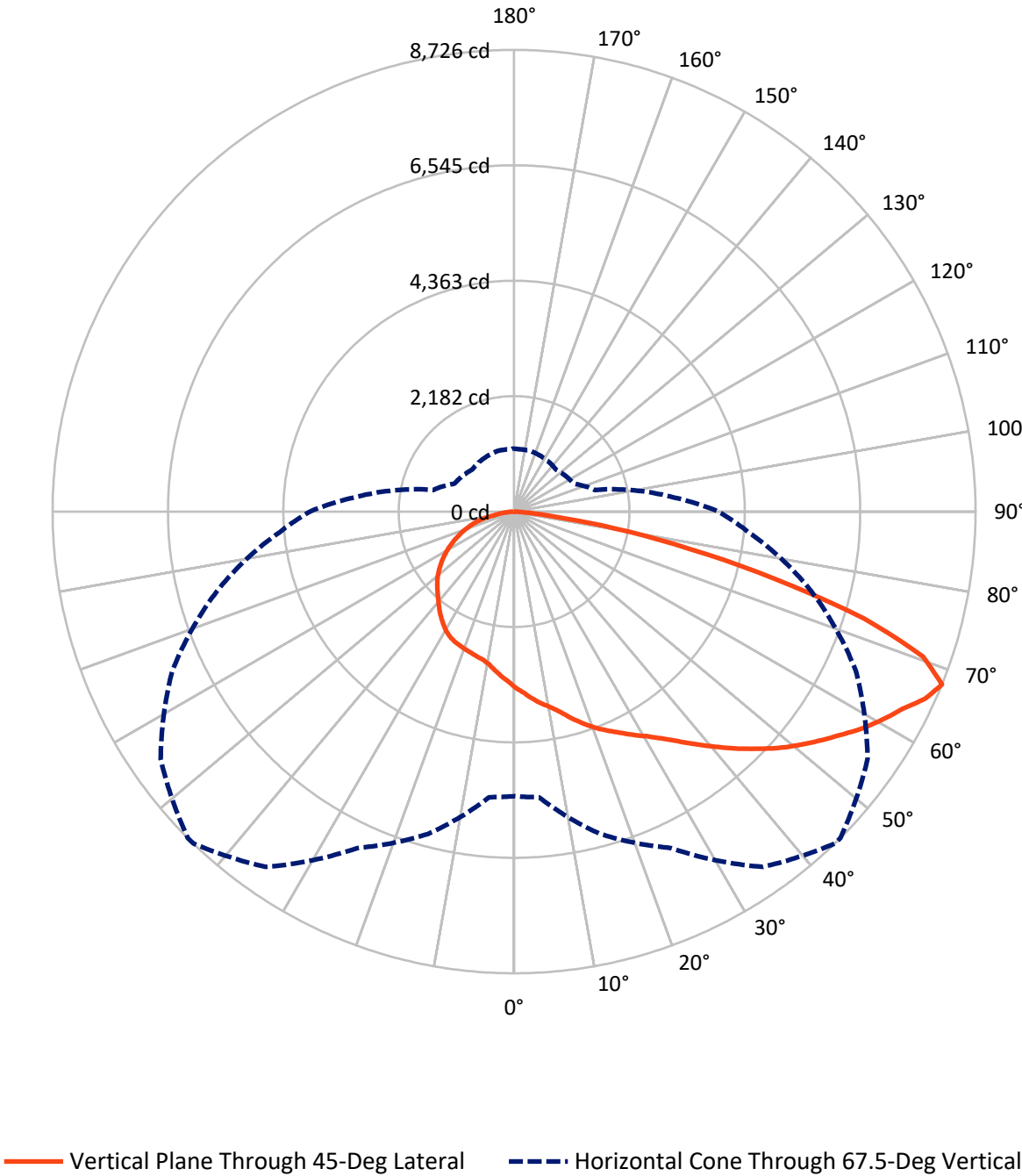


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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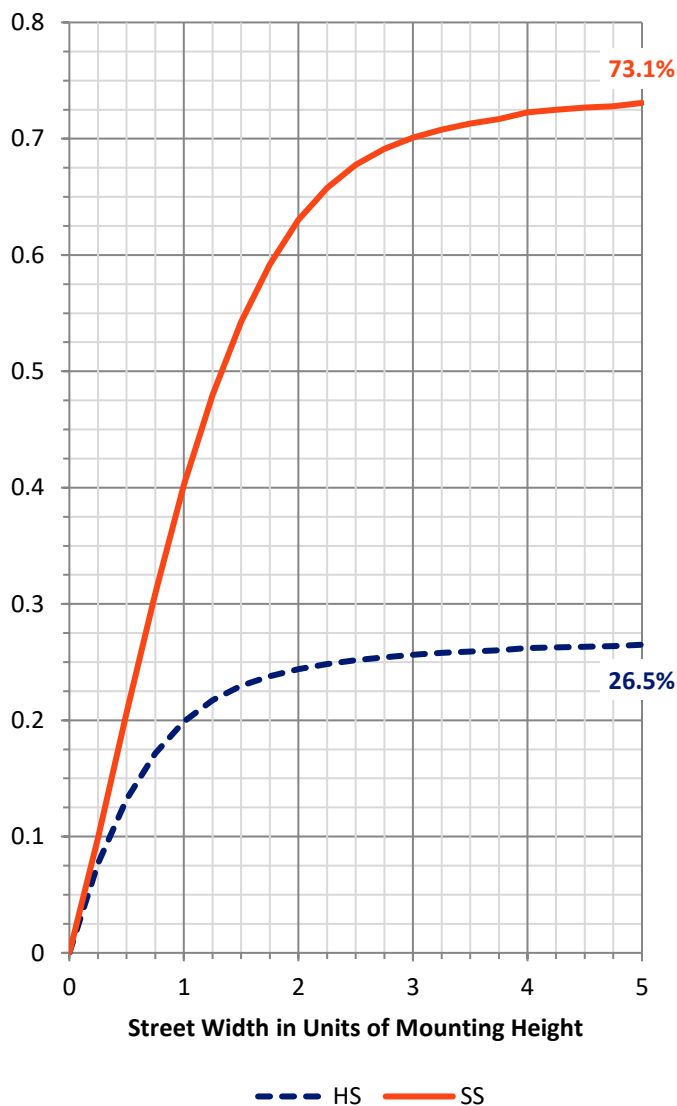
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5332.3	0.0	5332.3
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	14627.7	0.0	14627.7
	% Fixture	73.3	0.0	73.3
Total	Lumens	19960.0	0.0	19960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.7	1.6
10°-20°	984.6	4.9
20°-30°	1699.5	8.5
30°-40°	2506.2	12.6
40°-50°	3395.4	17.0
50°-60°	4150.0	20.8
60°-70°	4280.1	21.4
70°-80°	2344.4	11.7
80°-90°	281.0	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°	19960.0	100.0
0°-180°	19960.0	100.0

Coefficient of Utilization



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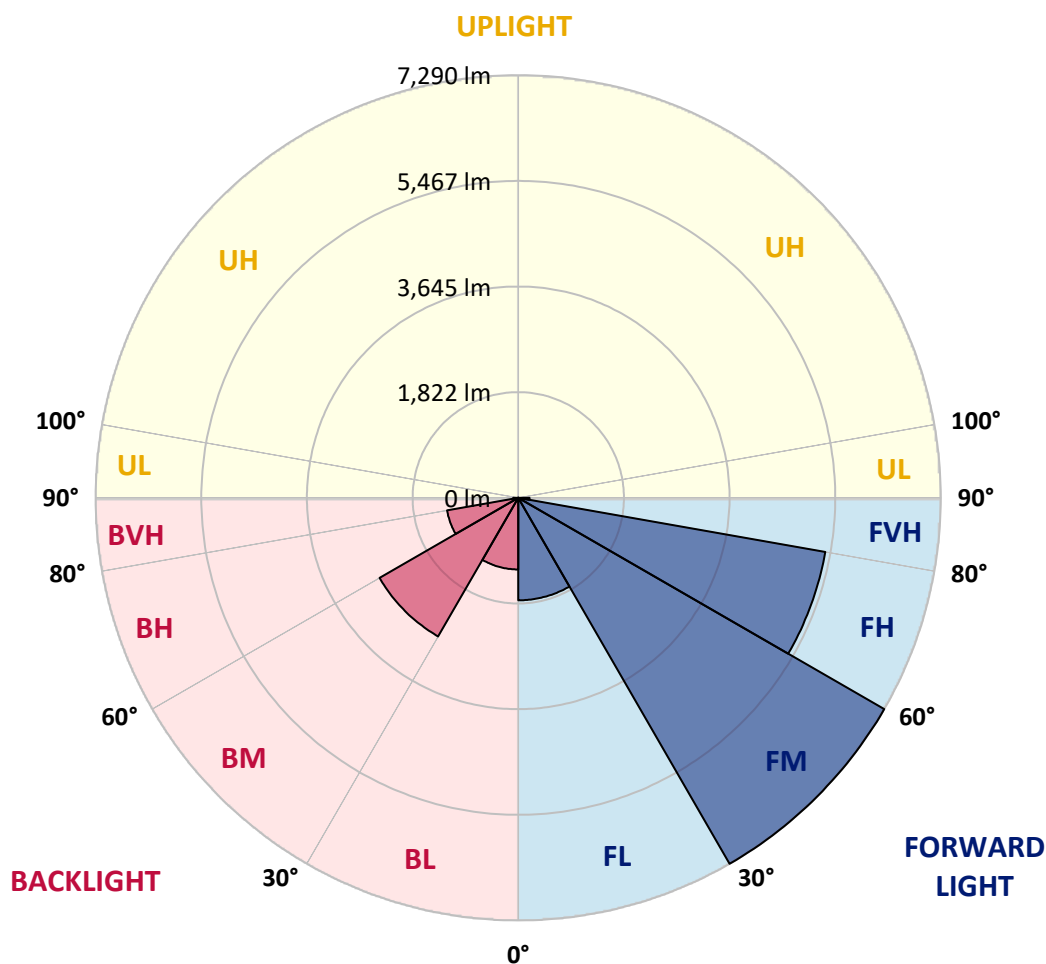
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1767.0	8.9			
FM	(30°-60°)	7289.6	36.5			
FH	(60°-80°)	5377.5	26.9			G3/7500
FVH	(80°-90°)	193.6	1.0			G2/225
BL	(0°-30°)	1235.9	6.2	B3/2500		
BM	(30°-60°)	2762.1	13.8	B3/5000		
BH	(60°-80°)	1247.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	87.4	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°	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9
2.5°	3474.7	3471.7	3477.8	3456.5	3429.2	3426.1	3426.1	3407.9	3386.7	3344.1	3310.7
5°	3638.8	3632.7	3635.7	3605.3	3568.9	3550.7	3547.6	3508.2	3459.6	3392.7	3332.0
7.5°	3790.6	3784.6	3781.5	3748.1	3693.4	3663.1	3660.0	3602.3	3544.6	3441.3	3353.2
10°	3933.4	3927.3	3921.2	3875.7	3808.9	3763.3	3757.2	3684.3	3611.4	3483.9	3371.5
12.5°	4115.6	4103.5	4097.4	4042.7	3945.5	3896.9	3887.8	3790.6	3699.5	3544.6	3407.9
15°	4307.0	4297.9	4288.8	4237.1	4127.8	4064.0	4048.8	3927.3	3802.8	3623.6	3462.6
17.5°	4449.7	4440.6	4440.6	4395.1	4294.8	4221.9	4209.8	4064.0	3909.1	3696.5	3505.1
20°	4537.8	4528.7	4537.8	4510.5	4434.5	4373.8	4361.7	4200.7	4015.4	3763.3	3541.6
22.5°	4601.6	4592.5	4607.7	4595.5	4540.9	4504.4	4495.3	4337.4	4124.7	3833.2	3578.0
25°	4714.0	4714.0	4714.0	4692.7	4641.1	4628.9	4628.9	4492.3	4264.5	3924.3	3632.7
27.5°	4938.8	4926.6	4911.4	4850.7	4762.6	4759.5	4777.8	4650.2	4425.4	4042.7	3699.5
30°	5269.8	5263.7	5206.0	5078.5	4929.6	4914.5	4926.6	4820.3	4598.6	4167.3	3775.4
32.5°	5698.1	5676.8	5558.4	5367.0	5154.4	5084.5	5108.8	4996.5	4780.8	4294.8	3848.3
35°	6001.8	6007.9	5922.9	5749.7	5497.6	5312.3	5330.6	5193.9	4978.2	4437.6	3939.5
37.5°	6351.1	6372.4	6244.8	6114.2	5880.3	5564.4	5582.7	5397.4	5175.7	4616.8	4036.7
40°	6834.1	6791.5	6575.9	6421.0	6162.8	5828.7	5843.9	5625.2	5403.5	4786.9	4149.0
42.5°	7238.0	7162.1	6900.9	6703.5	6393.6	6108.1	6123.3	5871.2	5634.3	4975.2	4273.6
45°	7818.2	7608.6	7232.0	7134.8	6630.6	6381.5	6396.7	6132.4	5877.3	5175.7	4407.2
47.5°	8155.3	7821.2	7581.3	7529.6	6891.8	6664.0	6682.2	6408.8	6138.5	5403.5	4546.9
50°	8134.1	7918.4	7848.5	7721.0	7122.6	6928.2	6946.4	6694.3	6402.8	5628.2	4680.6
52.5°	7994.3	8033.8	7997.4	7784.8	7353.5	7183.4	7204.6	6976.8	6673.1	5837.8	4805.1
55°	8210.0	8237.3	8167.5	7888.0	7608.6	7438.5	7462.8	7274.5	6940.4	6023.1	4911.4
57.5°	8468.2	8371.0	8301.1	8070.3	7872.8	7714.9	7742.2	7578.2	7171.2	6171.9	4993.4
60°	8456.0	8252.5	8322.4	8082.4	8052.0	7970.0	7994.3	7827.3	7347.4	6281.3	5026.8
62.5°	7833.4	7724.0	8076.3	7994.3	8197.8	8197.8	8228.2	7979.2	7453.7	6326.8	5008.6
65°	6752.1	6758.1	7377.8	7717.9	8371.0	8510.7	8535.0	8073.3	7392.9	6193.2	4838.5
67.5°	5379.2	5418.7	6308.6	7016.3	8197.8	8723.3	8726.3	8158.4	7131.7	5816.5	4443.7
70°	3936.4	3966.8	5017.7	5877.3	7380.8	8252.5	8203.9	7918.4	6563.7	5160.5	3827.1
72.5°	2660.7	2688.1	3769.4	4513.5	6056.5	7028.5	6922.1	6998.1	5594.8	4240.2	3076.8
75°	1789.0	1822.4	2682.0	3228.7	4455.8	5336.6	5099.7	5300.2	4328.2	3210.5	2244.6
77.5°	1126.9	1148.1	1704.0	2117.0	3043.4	3632.7	3395.8	3398.8	2493.7	1728.3	1205.8
80°	716.8	722.9	1032.7	1221.0	1761.7	2183.9	1931.8	1570.3	1123.8	917.3	719.9
82.5°	416.1	407.0	616.6	689.5	838.3	829.2	686.4	650.0	492.1	458.6	367.5
85°	167.1	154.9	270.3	252.1	255.1	270.3	200.5	200.5	161.0	124.5	91.1
87.5°	33.4	33.4	36.4	33.4	33.4	36.4	27.3	27.3	24.3	24.3	24.3
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°	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9
2.5°	3304.7	3298.6	3283.4	3243.9	3222.6	3210.5	3192.3	3186.2	3183.2	3186.2	3195.3
5°	3313.8	3292.5	3250.0	3186.2	3143.7	3116.3	3086.0	3073.8	3064.7	3064.7	3073.8
7.5°	3319.8	3286.4	3213.5	3119.4	3058.6	3016.1	2979.7	2964.5	2961.4	2970.5	2973.6
10°	3322.9	3274.3	3171.0	3052.5	2973.6	2918.9	2882.5	2873.3	2882.5	2900.7	2903.7
12.5°	3344.1	3277.3	3146.7	3007.0	2912.8	2858.2	2830.8	2830.8	2855.1	2888.5	2891.6
15°	3380.6	3298.6	3134.6	2970.5	2873.3	2824.7	2815.6	2830.8	2867.3	2918.9	2925.0
17.5°	3407.9	3310.7	3107.2	2921.9	2821.7	2791.3	2806.5	2843.0	2894.6	2964.5	2970.5
20°	3426.1	3310.7	3067.7	2864.2	2770.1	2764.0	2806.5	2864.2	2918.9	3000.9	3010.0
22.5°	3444.4	3304.7	3022.2	2794.4	2712.4	2730.6	2809.6	2882.5	2937.1	3025.2	3040.4
25°	3477.8	3313.8	2976.6	2724.5	2651.6	2703.3	2806.5	2894.6	2952.3	3043.4	3067.7
27.5°	3523.3	3335.0	2943.2	2660.7	2590.9	2660.7	2785.3	2891.6	2952.3	3040.4	3067.7
30°	3571.9	3359.3	2903.7	2590.9	2521.0	2600.0	2739.7	2858.2	2928.0	3010.0	3043.4
32.5°	3623.6	3386.7	2870.3	2514.9	2436.0	2518.0	2672.9	2806.5	2882.5	2958.4	2994.8
35°	3693.4	3435.3	2852.1	2454.2	2360.0	2432.9	2587.8	2739.7	2821.7	2891.6	2934.1
37.5°	3778.5	3496.0	2843.0	2393.4	2278.0	2338.8	2496.7	2657.7	2745.8	2803.5	2843.0
40°	3875.7	3571.9	2839.9	2335.7	2196.0	2241.6	2402.6	2563.5	2648.6	2694.1	2727.6
42.5°	3985.0	3657.0	2833.9	2278.0	2114.0	2150.5	2311.4	2469.4	2542.3	2581.8	2612.1
45°	4100.4	3742.0	2821.7	2208.2	2025.9	2068.4	2217.3	2357.0	2432.9	2466.3	2499.7
47.5°	4215.9	3827.1	2797.4	2129.2	1946.9	1986.4	2117.0	2238.5	2299.3	2329.7	2363.1
50°	4328.2	3903.0	2739.7	2038.1	1864.9	1901.4	2001.6	2083.6	2129.2	2153.5	2186.9
52.5°	4428.5	3954.6	2657.7	1931.8	1782.9	1801.2	1868.0	1937.8	1974.3	1977.3	2007.7
55°	4513.5	3982.0	2539.2	1822.4	1694.8	1697.9	1734.3	1789.0	1804.2	1792.0	1813.3
57.5°	4562.1	3966.8	2408.6	1710.0	1603.7	1591.6	1618.9	1646.3	1649.3	1618.9	1640.2
60°	4574.3	3896.9	2238.5	1597.7	1512.6	1479.2	1488.3	1482.2	1476.2	1464.0	1482.2
62.5°	4513.5	3748.1	2050.2	1488.3	1415.4	1363.8	1360.7	1357.7	1366.8	1369.9	1372.9
65°	4291.8	3468.7	1825.5	1375.9	1312.1	1242.3	1239.2	1275.7	1287.8	1269.6	1275.7
67.5°	3863.5	3040.4	1579.4	1245.3	1181.5	1120.8	1145.1	1166.3	1187.6	1181.5	1187.6
70°	3256.1	2496.7	1354.7	1099.5	1038.8	1005.4	1032.7	1050.9	1054.0	1047.9	1054.0
72.5°	2560.5	1950.0	1145.1	950.7	896.0	880.8	914.2	929.4	956.8	968.9	972.0
75°	1849.8	1439.7	938.5	789.7	744.2	744.2	774.5	801.9	826.2	811.0	801.9
77.5°	1032.7	859.6	674.3	543.7	552.8	595.3	607.5	637.8	662.1	659.1	653.0
80°	625.7	537.6	455.6	352.3	349.3	382.7	461.7	513.3	525.5	498.1	495.1
82.5°	325.0	282.5	243.0	197.4	218.7	255.1	267.3	322.0	355.4	343.2	358.4
85°	82.0	79.0	88.1	91.1	112.4	124.5	136.7	161.0	106.3	51.6	51.6
87.5°	24.3	24.3	30.4	30.4	39.5	48.6	45.6	45.6	24.3	3.0	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)