

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: P836331

Luminaire Tested: **ARCH3-170-730-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836331
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: ARCH3-170-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22540 lumens
Efficiency: N/A
Efficacy: 132.1 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

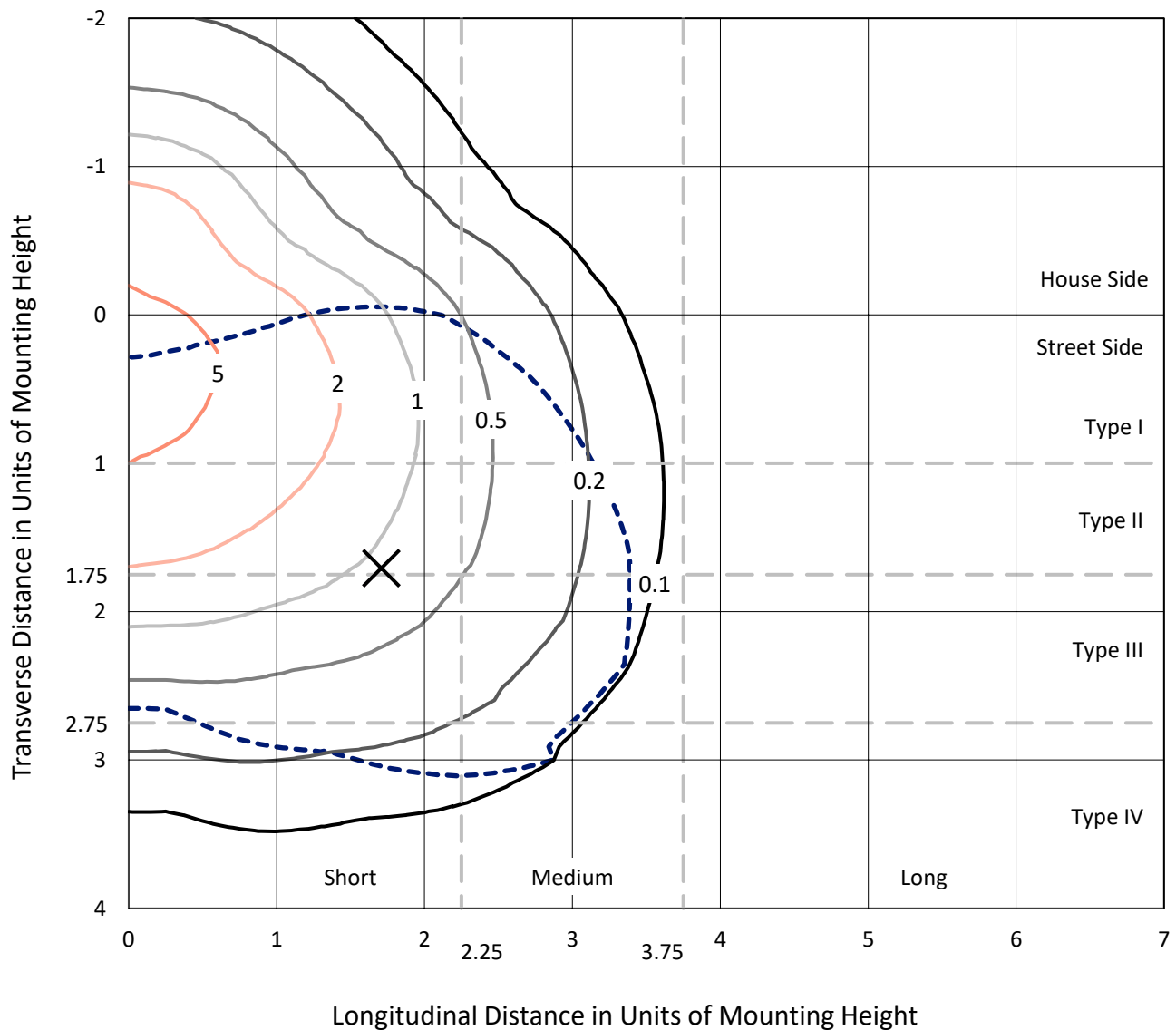
Input Watts (W): 170.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

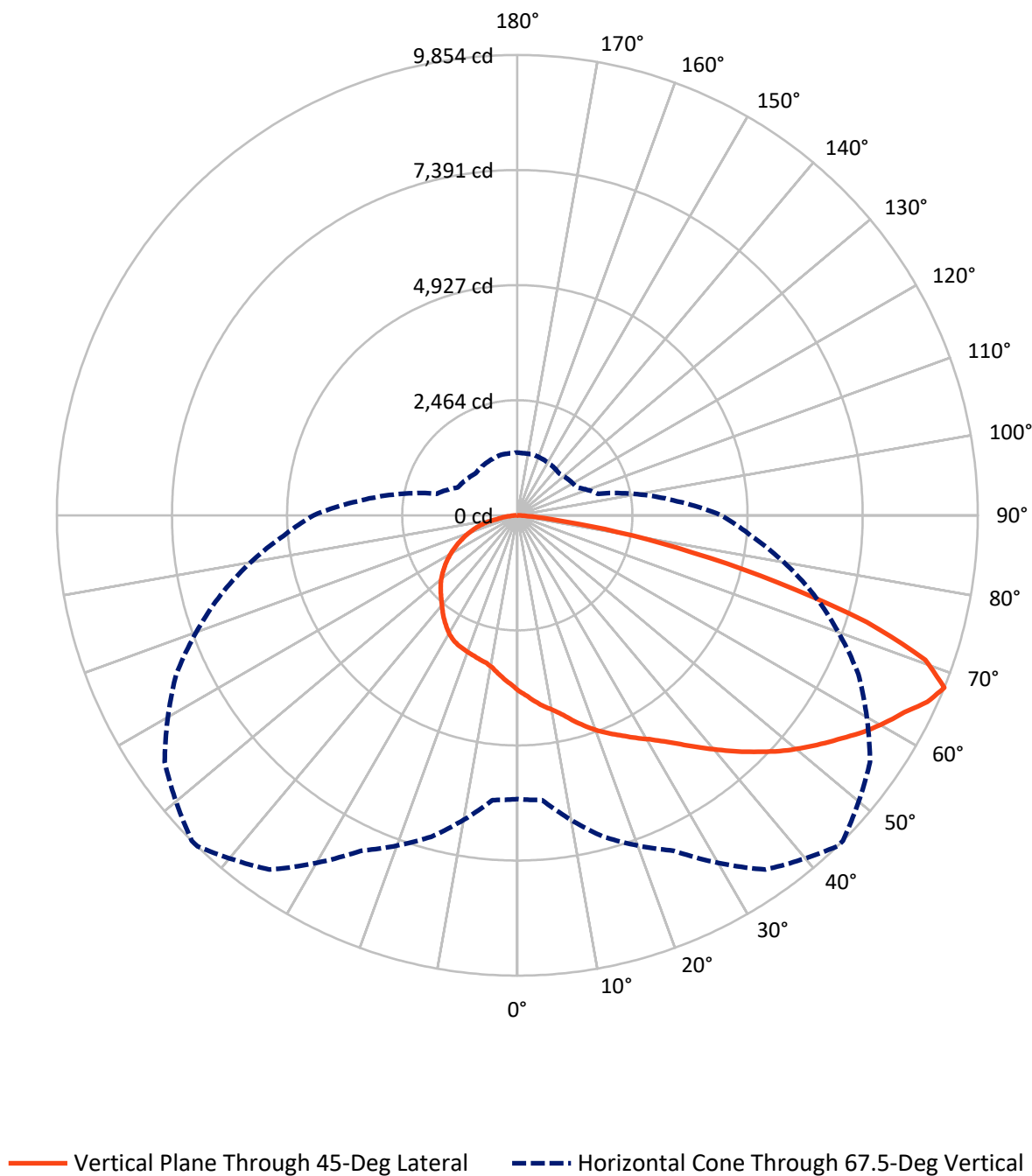
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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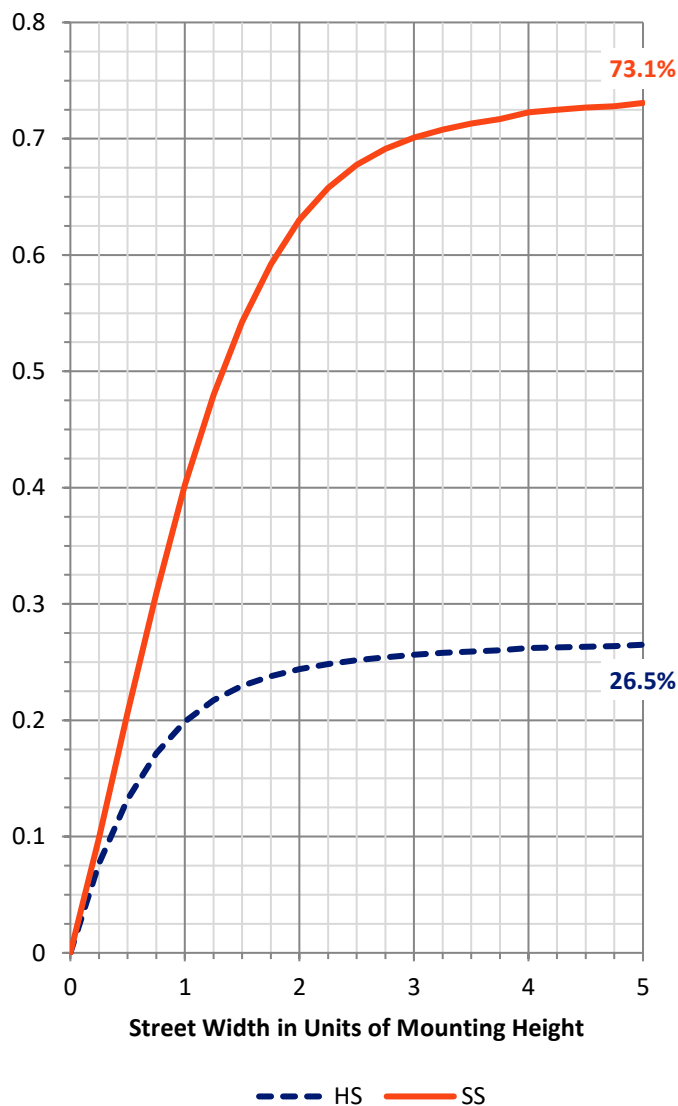
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6021.6	0.0	6021.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	16518.4	0.0	16518.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	22540.0	0.0	22540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.9	1.6
10°-20°	1111.9	4.9
20°-30°	1919.2	8.5
30°-40°	2830.2	12.6
40°-50°	3834.3	17.0
50°-60°	4686.4	20.8
60°-70°	4833.4	21.4
70°-80°	2647.4	11.7
80°-90°	317.3	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°	22540.0	100.0
0°-180°	22540.0	100.0

Coefficient of Utilization



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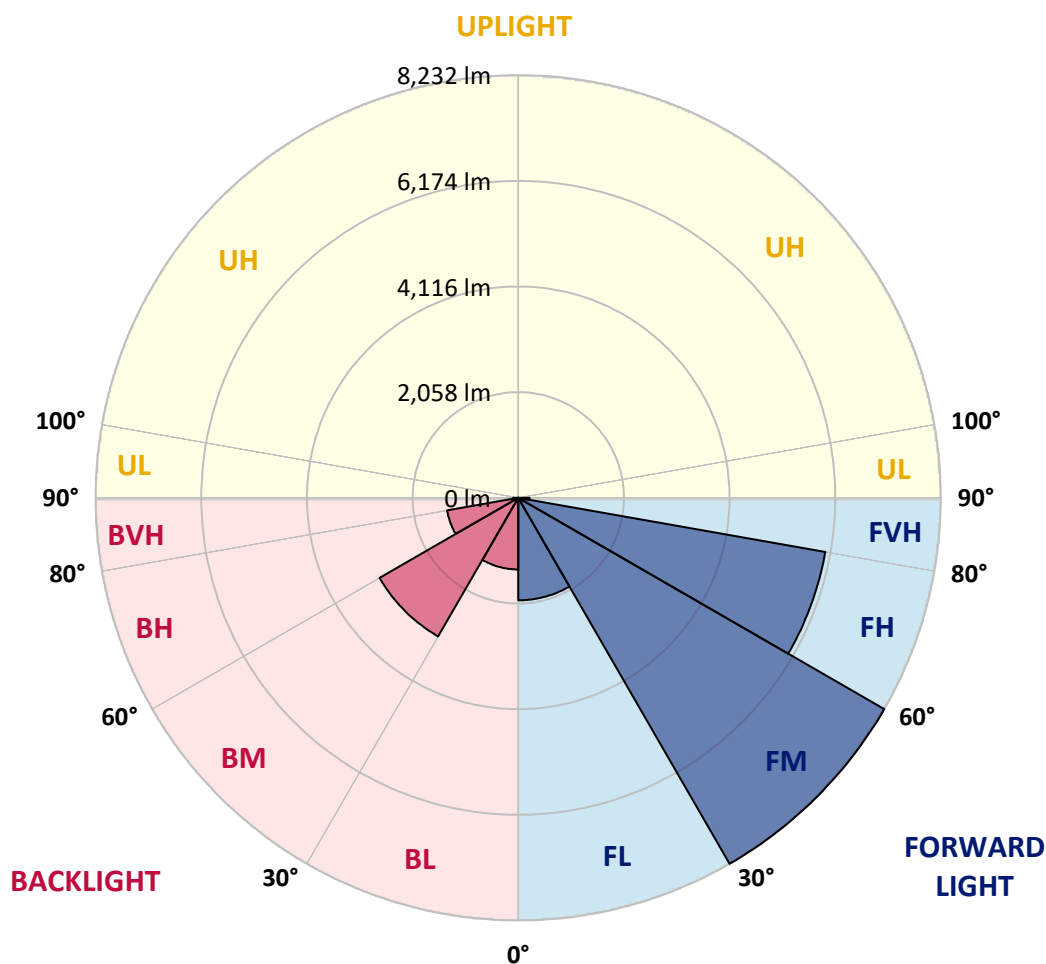
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1995.4	8.9			
FM	(30°-60°)	8231.8	36.5			
FH	(60°-80°)	6072.6	26.9			G3/7500
FVH	(80°-90°)	218.6	1.0			G2/225
BL	(0°-30°)	1395.6	6.2	B3/2500		
BM	(30°-60°)	3119.1	13.8	B3/5000		
BH	(60°-80°)	1408.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	98.7	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°	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2
2.5°	3923.9	3920.5	3927.3	3903.3	3872.4	3869.0	3869.0	3848.4	3824.4	3776.4	3738.7
5°	4109.1	4102.2	4105.7	4071.4	4030.2	4009.6	4006.2	3961.6	3906.7	3831.3	3762.7
7.5°	4280.6	4273.7	4270.3	4232.6	4170.8	4136.5	4133.1	4067.9	4002.8	3886.2	3786.7
10°	4441.8	4434.9	4428.1	4376.6	4301.2	4249.7	4242.9	4160.6	4078.2	3934.2	3807.3
12.5°	4647.6	4633.9	4627.0	4565.3	4455.5	4400.6	4390.4	4280.6	4177.7	4002.8	3848.4
15°	4863.7	4853.4	4843.1	4784.8	4661.3	4589.3	4572.1	4434.9	4294.3	4092.0	3910.2
17.5°	5024.9	5014.6	5014.6	4963.2	4850.0	4767.7	4753.9	4589.3	4414.4	4174.3	3958.2
20°	5124.4	5114.1	5124.4	5093.5	5007.8	4939.2	4925.4	4743.6	4534.4	4249.7	3999.3
22.5°	5196.4	5186.1	5203.3	5189.5	5127.8	5086.6	5076.4	4898.0	4657.9	4328.6	4040.5
25°	5323.3	5323.3	5323.3	5299.3	5241.0	5227.3	5227.3	5072.9	4815.7	4431.5	4102.2
27.5°	5577.1	5563.4	5546.3	5477.7	5378.2	5374.8	5395.3	5251.3	4997.5	4565.3	4177.7
30°	5951.0	5944.1	5879.0	5734.9	5566.8	5549.7	5563.4	5443.4	5193.0	4705.9	4263.4
32.5°	6434.6	6410.6	6276.8	6060.8	5820.7	5741.8	5769.2	5642.3	5398.8	4850.0	4345.8
35°	6777.6	6784.5	6688.4	6492.9	6208.2	5999.0	6019.6	5865.2	5621.7	5011.2	4448.7
37.5°	7172.1	7196.1	7052.0	6904.5	6640.4	6283.7	6304.3	6095.1	5844.7	5213.6	4558.4
40°	7717.4	7669.4	7425.9	7251.0	6959.4	6582.1	6599.3	6352.3	6101.9	5405.6	4685.3
42.5°	8173.6	8087.9	7792.9	7569.9	7220.1	6897.7	6914.8	6630.1	6362.6	5618.3	4826.0
45°	8828.7	8592.1	8166.8	8057.0	7487.6	7206.4	7223.5	6925.1	6637.0	5844.7	4976.9
47.5°	9209.5	8832.2	8561.2	8502.9	7782.6	7525.3	7545.9	7237.2	6932.0	6101.9	5134.7
50°	9185.5	8941.9	8863.0	8719.0	8043.3	7823.8	7844.3	7559.6	7230.4	6355.7	5285.6
52.5°	9027.7	9072.3	9031.1	8791.0	8304.0	8111.9	8135.9	7878.6	7535.6	6592.4	5426.2
55°	9271.2	9302.1	9223.2	8907.6	8592.1	8400.0	8427.4	8214.8	7837.5	6801.6	5546.3
57.5°	9562.7	9453.0	9374.1	9113.4	8890.5	8712.1	8743.0	8557.8	8098.2	6969.7	5638.9
60°	9549.0	9319.2	9398.1	9127.1	9092.8	9000.2	9027.7	8839.0	8297.1	7093.2	5676.6
62.5°	8845.9	8722.4	9120.3	9027.7	9257.5	9257.5	9291.8	9010.5	8417.1	7144.6	5656.0
65°	7624.8	7631.7	8331.4	8715.5	9453.0	9610.8	9638.2	9116.9	8348.5	6993.7	5463.9
67.5°	6074.5	6119.1	7124.0	7923.2	9257.5	9850.9	9854.3	9212.9	8053.6	6568.4	5018.0
70°	4445.2	4479.5	5666.3	6637.0	8334.8	9319.2	9264.3	8941.9	7412.2	5827.5	4321.8
72.5°	3004.7	3035.5	4256.6	5096.9	6839.4	7936.9	7816.9	7902.6	6318.0	4788.2	3474.6
75°	2020.3	2058.0	3028.7	3646.1	5031.8	6026.5	5758.9	5985.3	4887.7	3625.5	2534.7
77.5°	1272.5	1296.5	1924.2	2390.7	3436.8	4102.2	3834.7	3838.1	2816.0	1951.7	1361.7
80°	809.5	816.3	1166.2	1378.8	1989.4	2466.1	2181.5	1773.3	1269.1	1035.9	812.9
82.5°	469.9	459.6	696.3	778.6	946.7	936.4	775.2	734.0	555.7	517.9	415.0
85°	188.6	174.9	305.3	284.7	288.1	305.3	226.4	226.4	181.8	140.6	102.9
87.5°	37.7	37.7	41.2	37.7	37.7	41.2	30.9	30.9	27.4	27.4	27.4
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°	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2
2.5°	3731.8	3724.9	3707.8	3663.2	3639.2	3625.5	3604.9	3598.0	3594.6	3598.0	3608.3
5°	3742.1	3718.1	3670.1	3598.0	3550.0	3519.1	3484.8	3471.1	3460.8	3460.8	3471.1
7.5°	3749.0	3711.2	3628.9	3522.6	3454.0	3406.0	3364.8	3347.6	3344.2	3354.5	3357.9
10°	3752.4	3697.5	3580.9	3447.1	3357.9	3296.2	3255.0	3244.7	3255.0	3275.6	3279.0
12.5°	3776.4	3700.9	3553.4	3395.7	3289.3	3227.6	3196.7	3196.7	3224.2	3261.9	3265.3
15°	3817.6	3724.9	3539.7	3354.5	3244.7	3189.9	3179.6	3196.7	3237.9	3296.2	3303.1
17.5°	3848.4	3738.7	3508.9	3299.6	3186.4	3152.1	3169.3	3210.4	3268.8	3347.6	3354.5
20°	3869.0	3738.7	3464.3	3234.5	3128.1	3121.3	3169.3	3234.5	3296.2	3388.8	3399.1
22.5°	3889.6	3731.8	3412.8	3155.6	3063.0	3083.5	3172.7	3255.0	3316.8	3416.2	3433.4
25°	3927.3	3742.1	3361.4	3076.7	2994.4	3052.7	3169.3	3268.8	3333.9	3436.8	3464.3
27.5°	3978.8	3766.1	3323.6	3004.7	2925.8	3004.7	3145.3	3265.3	3333.9	3433.4	3464.3
30°	4033.6	3793.5	3279.0	2925.8	2846.9	2936.1	3093.8	3227.6	3306.5	3399.1	3436.8
32.5°	4092.0	3824.4	3241.3	2840.0	2750.8	2843.4	3018.4	3169.3	3255.0	3340.8	3381.9
35°	4170.8	3879.3	3220.7	2771.4	2665.1	2747.4	2922.3	3093.8	3186.4	3265.3	3313.3
37.5°	4266.9	3947.9	3210.4	2702.8	2572.5	2641.1	2819.4	3001.2	3100.7	3165.9	3210.4
40°	4376.6	4033.6	3207.0	2637.6	2479.9	2531.3	2713.1	2894.9	2990.9	3042.4	3080.1
42.5°	4500.1	4129.7	3200.2	2572.5	2387.3	2428.4	2610.2	2788.6	2870.9	2915.5	2949.8
45°	4630.5	4225.7	3186.4	2493.6	2287.8	2335.8	2503.9	2661.7	2747.4	2785.1	2822.9
47.5°	4760.8	4321.8	3159.0	2404.4	2198.6	2243.2	2390.7	2527.9	2596.5	2630.8	2668.5
50°	4887.7	4407.5	3093.8	2301.5	2106.0	2147.2	2260.3	2353.0	2404.4	2431.8	2469.6
52.5°	5000.9	4465.8	3001.2	2181.5	2013.4	2034.0	2109.4	2188.3	2229.5	2232.9	2267.2
55°	5096.9	4496.7	2867.5	2058.0	1913.9	1917.4	1958.5	2020.3	2037.4	2023.7	2047.7
57.5°	5151.8	4479.5	2720.0	1931.1	1811.0	1797.3	1828.2	1859.0	1862.5	1828.2	1852.2
60°	5165.5	4400.6	2527.9	1804.2	1708.1	1670.4	1680.7	1673.8	1667.0	1653.2	1673.8
62.5°	5096.9	4232.6	2315.2	1680.7	1598.4	1540.1	1536.6	1533.2	1543.5	1546.9	1550.3
65°	4846.5	3917.0	2061.4	1553.8	1481.7	1402.9	1399.4	1440.6	1454.3	1433.7	1440.6
67.5°	4362.9	3433.4	1783.6	1406.3	1334.3	1265.7	1293.1	1317.1	1341.1	1334.3	1341.1
70°	3676.9	2819.4	1529.8	1241.6	1173.0	1135.3	1166.2	1186.8	1190.2	1183.3	1190.2
72.5°	2891.5	2202.0	1293.1	1073.6	1011.8	994.7	1032.4	1049.6	1080.4	1094.2	1097.6
75°	2088.9	1625.8	1059.9	891.8	840.3	840.3	874.6	905.5	933.0	915.8	905.5
77.5°	1166.2	970.7	761.5	614.0	624.3	672.3	686.0	720.3	747.7	744.3	737.4
80°	706.6	607.1	514.5	397.9	394.4	432.2	521.4	579.7	593.4	562.5	559.1
82.5°	367.0	319.0	274.4	222.9	247.0	288.1	301.8	363.6	401.3	387.6	404.7
85°	92.6	89.2	99.5	102.9	126.9	140.6	154.3	181.8	120.0	58.3	58.3
87.5°	27.4	27.4	34.3	34.3	44.6	54.9	51.4	51.4	27.4	3.4	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)