

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: P840941

Luminaire Tested: **ARCH4-110-727-U-T2U**

Issue Date: 5/27/2024

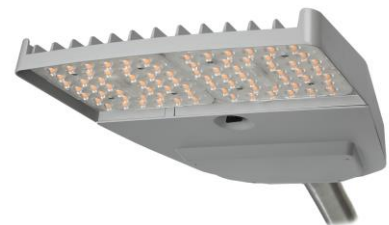
Test Information

Test Method: LM-79-08
Report Number: P840941
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: ARCH4-110-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18482 lumens
Efficiency: N/A
Efficacy: 164.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 112.6
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



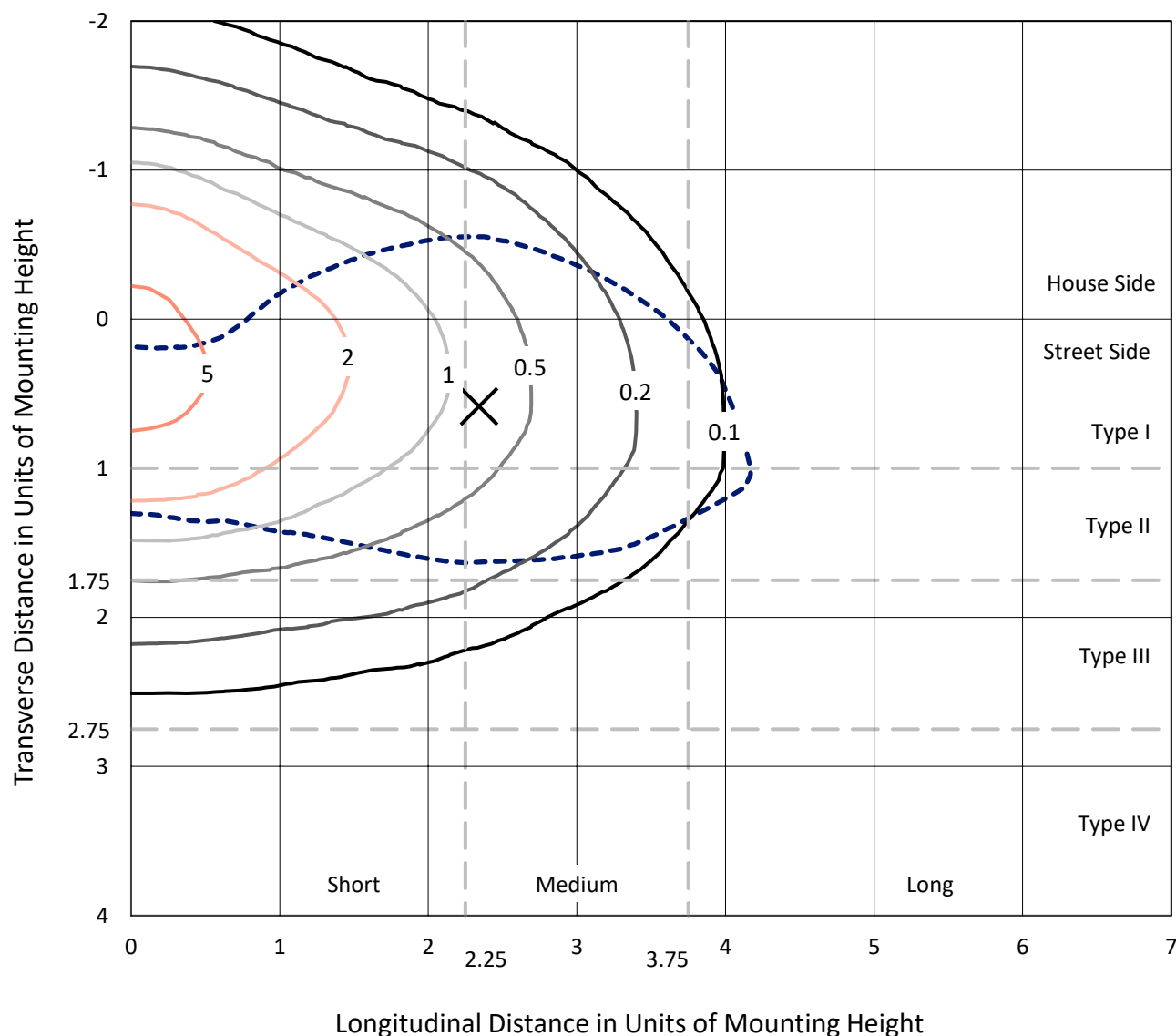
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

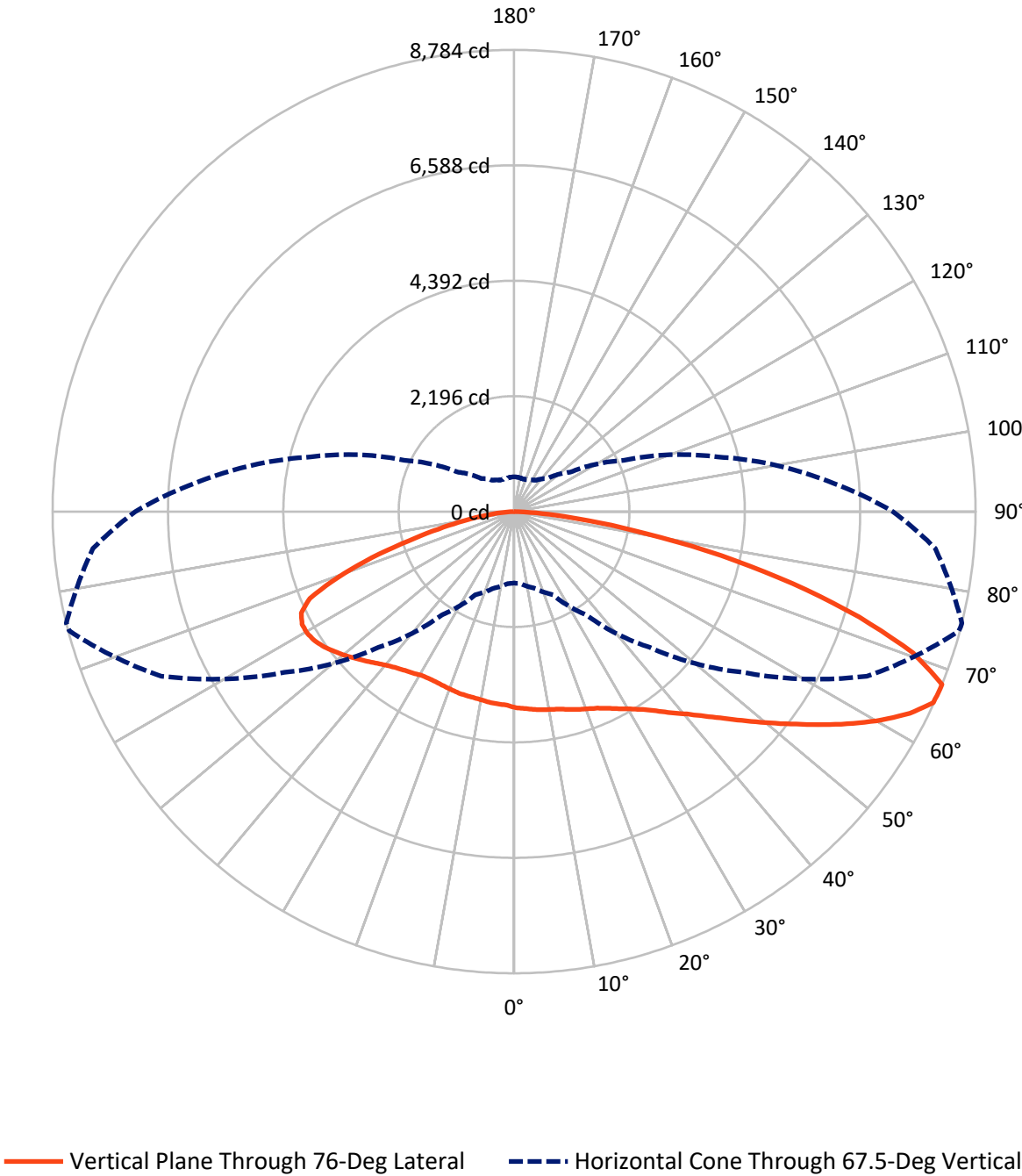
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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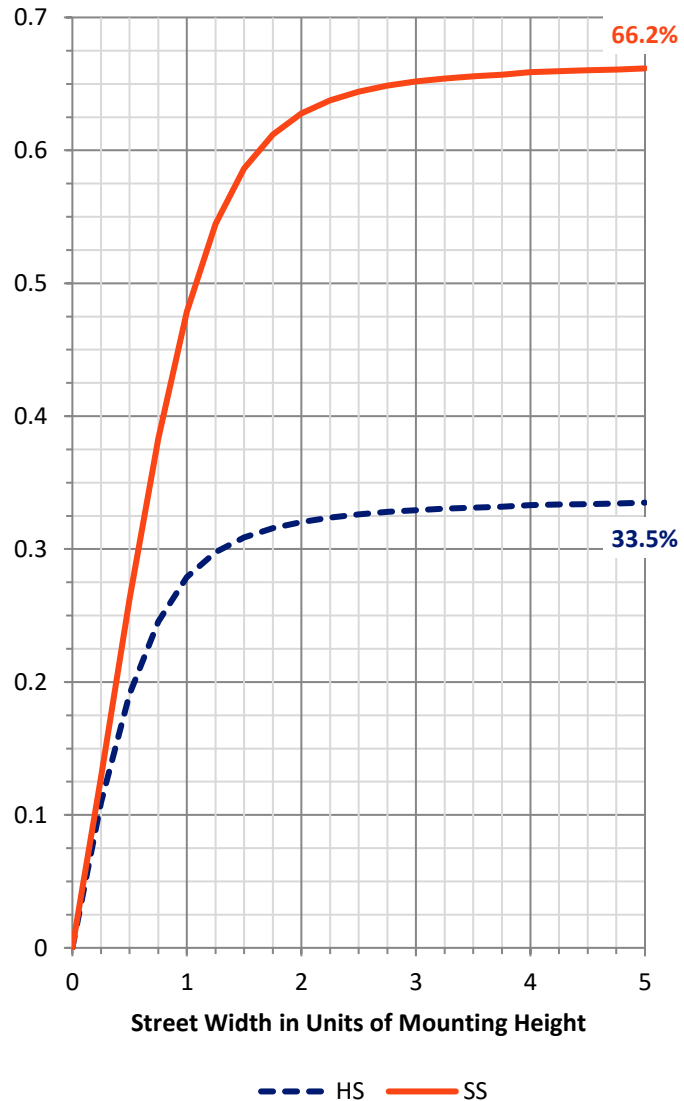
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6245.2	0.0	6245.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	12236.9	0.0	12236.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	18482.0	0.0	18482.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.0	1.9
10°-20°	1100.6	6.0
20°-30°	1869.9	10.1
30°-40°	2660.6	14.4
40°-50°	3360.3	18.2
50°-60°	3638.1	19.7
60°-70°	3383.9	18.3
70°-80°	1817.4	9.8
80°-90°	291.2	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°	18482.0	100.0
0°-180°	18482.0	100.0

Coefficient of Utilization



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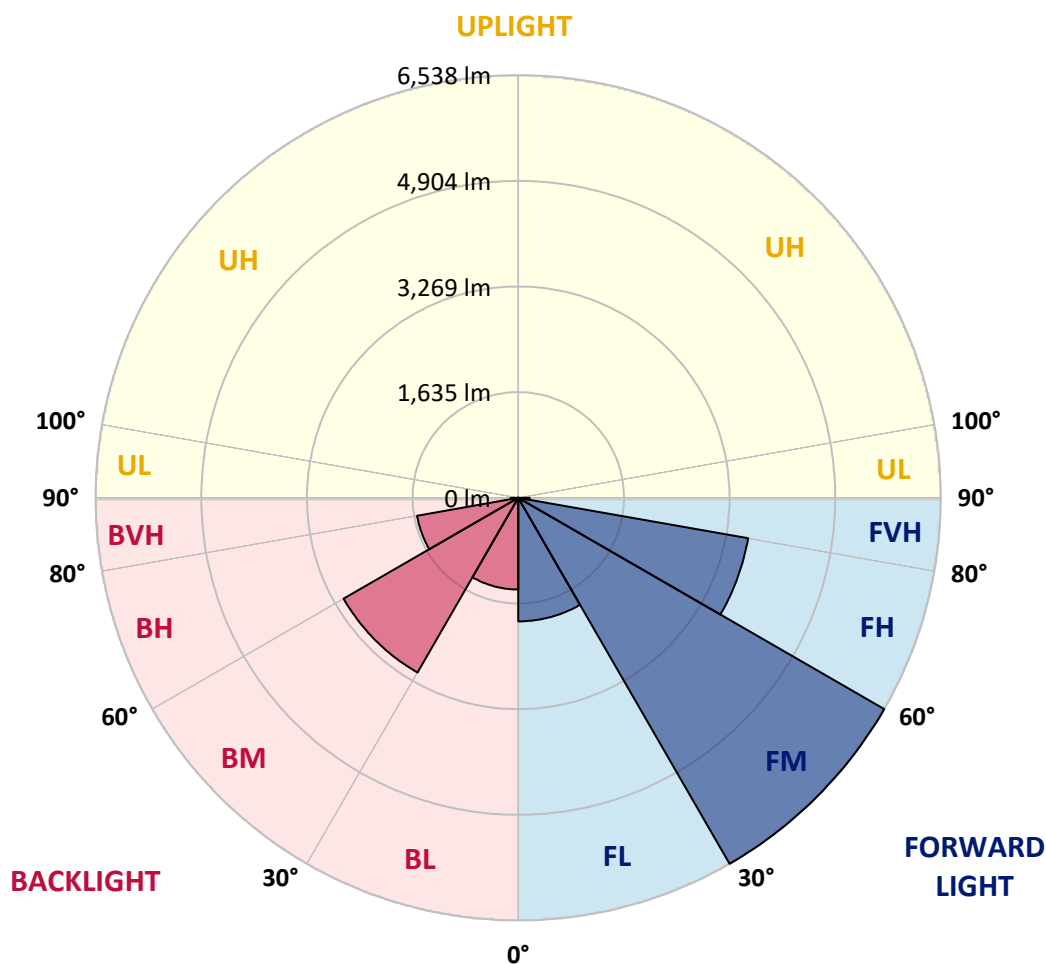
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1911.2	10.3			
FM	(30°-60°)	6538.2	35.4			
FH	(60°-80°)	3611.2	19.5			G2/5000
FVH	(80°-90°)	176.2	1.0			G2/225
BL	(0°-30°)	1419.2	7.7	B3/2500		
BM	(30°-60°)	3120.8	16.9	B3/5000		
BH	(60°-80°)	1590.1	8.6	B3/2500		G3/2500
BVH	(80°-90°)	115.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3
2.5°	3846.6	3839.7	3812.2	3815.7	3815.7	3812.2	3771.1	3753.9	3753.9	3750.5	3712.7
5°	3983.8	3973.5	3942.6	3935.8	3922.0	3904.9	3839.7	3802.0	3784.8	3781.4	3729.9
7.5°	4145.1	4131.4	4093.6	4073.0	4038.7	3994.1	3911.8	3853.4	3812.2	3808.8	3736.8
10°	4306.4	4292.6	4248.0	4210.3	4162.2	4090.2	3983.8	3898.0	3832.8	3826.0	3740.2
12.5°	4498.5	4484.8	4429.9	4381.9	4309.8	4213.7	4073.0	3956.4	3867.1	3856.9	3750.5
15°	4701.0	4680.4	4625.5	4570.6	4481.4	4357.8	4189.7	4035.3	3922.0	3904.9	3781.4
17.5°	4869.1	4841.7	4797.0	4742.1	4642.6	4498.5	4306.4	4114.2	3973.5	3959.8	3812.2
20°	5013.2	4992.6	4944.6	4893.1	4786.8	4628.9	4416.2	4193.1	4021.6	4004.4	3836.3
22.5°	5150.5	5123.0	5095.6	5057.8	4941.2	4766.2	4543.1	4289.2	4083.3	4062.7	3867.1
25°	5308.3	5277.4	5267.1	5246.6	5109.3	4930.9	4697.5	4409.3	4169.1	4145.1	3922.0
27.5°	5503.9	5469.6	5449.0	5449.0	5284.3	5099.0	4862.2	4550.0	4268.6	4248.0	3990.7
30°	5709.8	5668.6	5637.7	5637.7	5452.4	5267.1	5023.5	4690.7	4381.9	4357.8	4079.9
32.5°	5891.7	5850.5	5816.2	5812.7	5620.6	5435.3	5191.7	4845.1	4519.1	4488.2	4189.7
35°	6032.3	5994.6	5963.7	5970.6	5788.7	5606.8	5380.4	5051.0	4690.7	4656.4	4333.8
37.5°	6118.1	6104.4	6087.2	6111.3	5943.1	5771.6	5576.0	5250.0	4886.3	4855.4	4512.2
40°	6162.7	6152.4	6221.1	6251.9	6073.5	5919.1	5771.6	5455.9	5099.0	5064.7	4718.1
42.5°	6227.9	6313.7	6341.2	6334.3	6169.6	6032.3	5950.0	5678.9	5349.5	5318.6	4965.2
45°	5994.6	5974.0	6125.0	6207.3	6176.5	6104.4	6118.1	5946.6	5641.2	5610.3	5250.0
47.5°	5682.3	5654.9	5740.7	5943.1	6063.2	6131.8	6269.1	6224.5	5977.4	5950.0	5582.8
50°	5023.5	5061.3	5380.4	5651.5	5888.2	6125.0	6396.1	6523.0	6348.0	6320.6	5939.7
52.5°	4292.6	4330.4	4663.2	5287.7	5675.5	6073.5	6488.7	6821.6	6749.5	6718.6	6320.6
55°	3760.8	3843.1	4220.6	4673.5	5373.5	5912.2	6543.6	7126.9	7181.8	7154.4	6735.8
57.5°	3232.3	3294.1	3578.9	3980.4	4961.8	5630.9	6540.2	7411.7	7634.8	7607.3	7157.8
60°	2611.3	2690.2	2916.7	3349.0	4412.7	5294.6	6444.1	7634.8	8070.6	8050.0	7566.2
62.5°	2185.8	2209.8	2371.1	2745.1	3705.9	4869.1	6227.9	7754.9	8465.2	8451.4	7933.3
65°	1760.3	1763.7	1911.3	2223.5	3023.0	4340.7	5860.8	7710.3	8763.7	8770.6	8197.5
67.5°	1358.8	1376.0	1509.8	1746.6	2402.0	3654.4	5335.8	7408.3	8767.1	8784.3	8046.5
70°	940.2	953.9	1156.4	1386.3	1856.4	2913.2	4625.5	6608.8	8046.5	8060.3	7212.7
72.5°	662.3	669.1	885.3	1108.3	1451.5	2196.1	3489.7	5466.2	6859.3	6869.6	6066.7
75°	494.1	501.0	624.5	840.7	1111.8	1520.1	2384.8	4186.3	5479.9	5479.9	4790.2
77.5°	350.0	353.4	404.9	579.9	741.2	1026.0	1434.3	2741.7	4021.6	4028.4	3489.7
80°	236.8	240.2	264.2	391.2	463.2	555.9	778.9	1437.7	2535.8	2546.1	2216.7
82.5°	123.5	130.4	147.5	199.0	233.3	308.8	401.5	730.9	1403.4	1430.9	1331.4
85°	48.0	48.0	54.9	65.2	85.8	120.1	185.3	277.9	634.8	655.4	586.8
87.5°	17.2	17.2	20.6	20.6	24.0	27.5	30.9	41.2	72.1	72.1	68.6
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°	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3	3733.3
2.5°	3699.0	3699.0	3681.9	3688.7	3685.3	3678.4	3671.6	3681.9	3671.6	3647.5	3644.1
5°	3705.9	3699.0	3671.6	3668.1	3657.8	3644.1	3627.0	3633.8	3616.7	3596.1	3592.6
7.5°	3709.3	3695.6	3657.8	3644.1	3623.5	3596.1	3568.6	3568.6	3544.6	3524.0	3520.6
10°	3702.4	3685.3	3633.8	3606.4	3568.6	3527.4	3489.7	3479.4	3452.0	3427.9	3427.9
12.5°	3705.9	3681.9	3616.7	3572.0	3520.6	3469.1	3421.1	3407.3	3383.3	3359.3	3355.9
15°	3726.5	3692.1	3609.8	3551.5	3476.0	3417.6	3366.2	3355.9	3335.3	3318.1	3318.1
17.5°	3747.0	3702.4	3599.5	3517.1	3424.5	3359.3	3311.3	3311.3	3297.5	3287.2	3287.2
20°	3757.3	3705.9	3578.9	3469.1	3362.7	3294.1	3249.5	3256.4	3252.9	3249.5	3249.5
22.5°	3781.4	3712.7	3561.8	3424.5	3297.5	3225.5	3184.3	3194.6	3191.2	3191.2	3194.6
25°	3819.1	3729.9	3548.0	3383.3	3235.8	3156.9	3112.2	3119.1	3119.1	3119.1	3119.1
27.5°	3870.6	3764.2	3544.6	3345.6	3174.0	3084.8	3029.9	3029.9	3016.2	3019.6	3023.0
30°	3949.5	3829.4	3551.5	3311.3	3108.8	2995.6	2930.4	2920.1	2916.7	2923.5	2927.0
32.5°	4045.6	3918.6	3592.6	3287.2	3040.2	2896.1	2813.7	2810.3	2800.0	2800.0	2800.0
35°	4165.7	4004.4	3630.4	3283.8	2971.6	2789.7	2700.5	2690.2	2666.2	2655.9	2655.9
37.5°	4320.1	4138.2	3675.0	3259.8	2913.2	2686.8	2580.4	2546.1	2518.6	2515.2	2515.2
40°	4508.8	4289.2	3740.2	3232.3	2851.5	2580.4	2439.7	2381.4	2384.8	2398.5	2398.5
42.5°	4731.8	4474.5	3822.5	3218.6	2762.2	2470.6	2275.0	2206.4	2230.4	2244.1	2247.5
45°	4992.6	4694.1	3915.2	3201.5	2679.9	2347.1	2100.0	2014.2	2024.5	2027.9	2031.4
47.5°	5294.6	4937.7	4011.3	3187.7	2587.2	2192.6	1907.8	1794.6	1791.2	1770.6	1777.4
50°	5610.3	5195.1	4110.8	3163.7	2474.0	2010.8	1705.4	1571.6	1544.1	1513.2	1516.7
52.5°	5946.6	5459.3	4203.4	3126.0	2333.3	1825.5	1513.2	1369.1	1314.2	1279.9	1286.8
55°	6317.1	5730.4	4292.6	3067.6	2185.8	1640.2	1341.7	1194.1	1125.5	1098.0	1101.5
57.5°	6656.8	5991.2	4357.8	2995.6	2024.5	1472.1	1190.7	1046.6	1002.0	998.5	1002.0
60°	6986.3	6210.8	4385.3	2896.1	1859.8	1317.6	1050.0	940.2	909.3	926.5	929.9
62.5°	7264.2	6351.5	4371.6	2762.2	1691.7	1170.1	936.8	857.8	837.3	871.6	875.0
65°	7425.5	6396.1	4275.5	2570.1	1509.8	1026.0	830.4	744.6	734.3	754.9	765.2
67.5°	7212.7	6118.1	4014.7	2305.9	1307.3	892.2	727.4	658.8	641.7	658.8	658.8
70°	6392.6	5301.5	3397.0	1887.2	1084.3	761.8	631.4	583.3	569.6	583.3	579.9
72.5°	5325.5	4409.3	2676.5	1472.1	854.4	641.7	549.0	504.4	490.7	477.0	470.1
75°	4131.4	3349.0	1942.2	1080.9	645.1	514.7	459.8	418.6	384.3	398.0	391.2
77.5°	3026.5	2350.5	1376.0	748.0	463.2	398.0	360.3	329.4	305.4	332.8	329.4
80°	1949.0	1520.1	919.6	501.0	319.1	277.9	264.2	247.1	271.1	353.4	360.3
82.5°	1190.7	964.2	549.0	326.0	209.3	185.3	171.6	171.6	277.9	305.4	308.8
85°	531.9	511.3	298.5	168.1	116.7	106.4	96.1	123.5	113.2	82.4	85.8
87.5°	85.8	89.2	65.2	58.3	44.6	44.6	34.3	24.0	17.2	10.3	10.3
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)