

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: P840932

Luminaire Tested: **ARCH4-110-722-U-T2U**

Issue Date: 5/27/2024

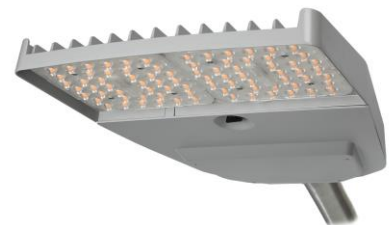
Test Information

Test Method: LM-79-08
Report Number: P840932
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: ARCH4-110-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

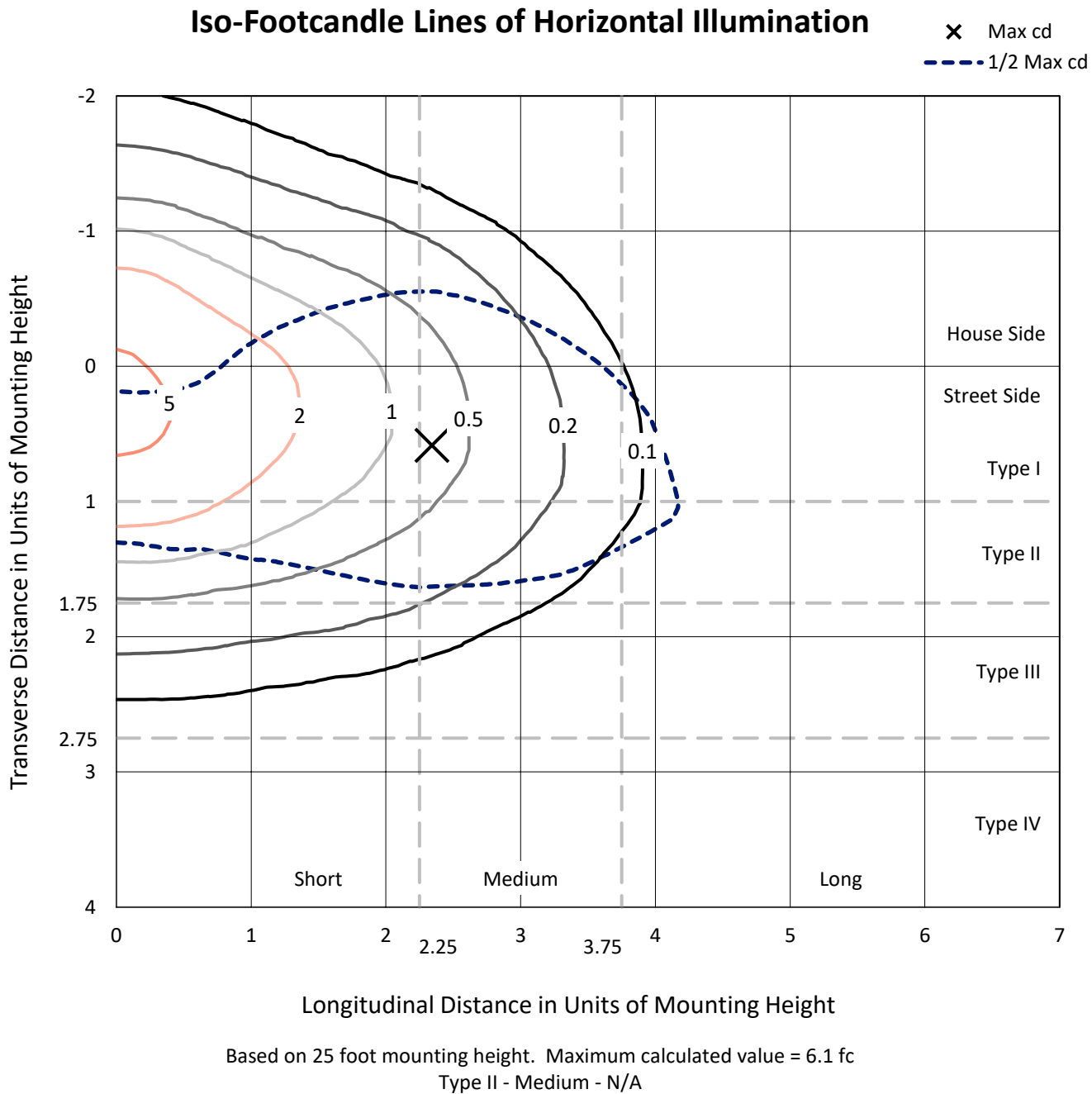
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16758 lumens
Efficiency: N/A
Efficacy: 148.8 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

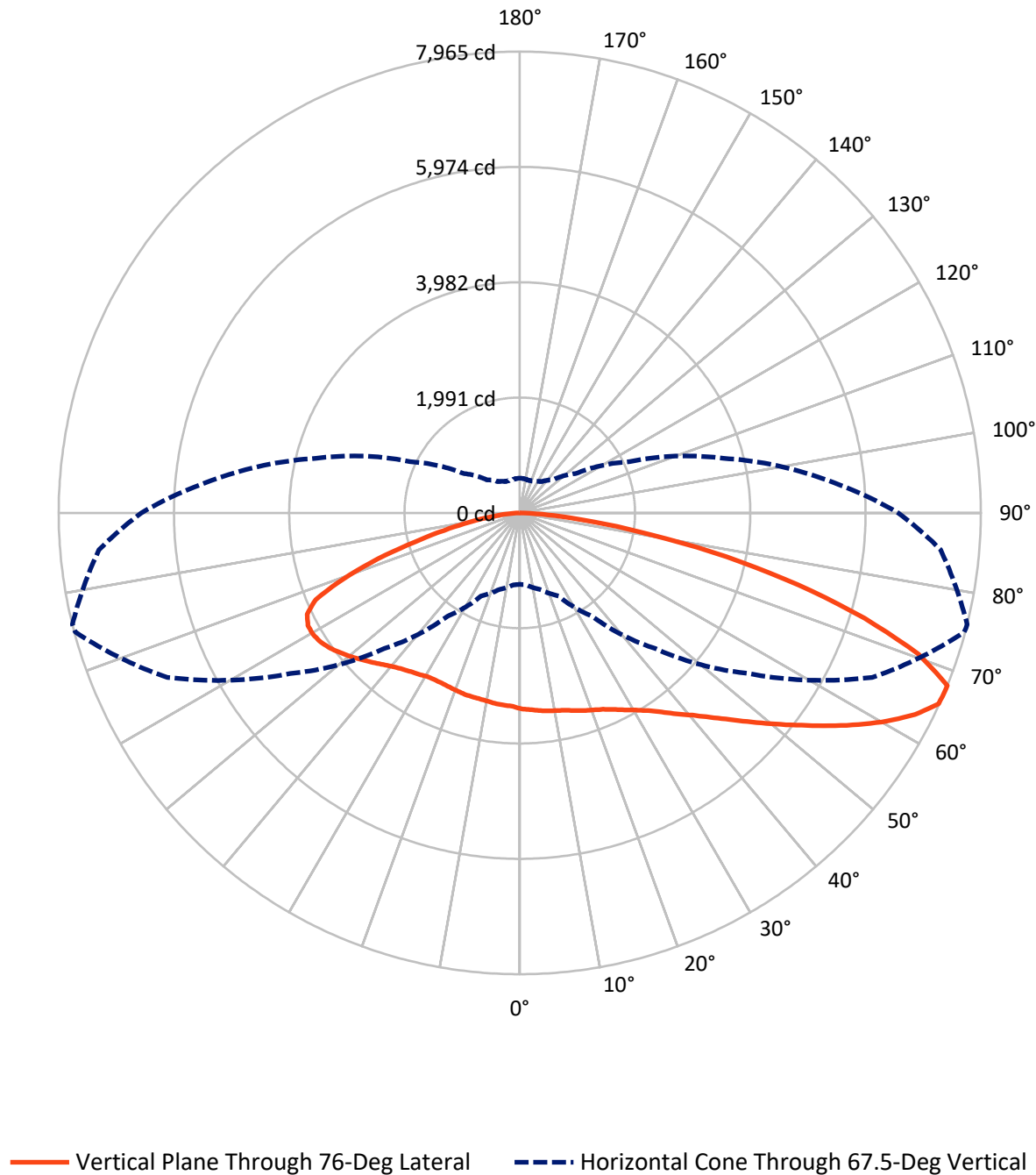


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Luminous Intensity Polar Plot



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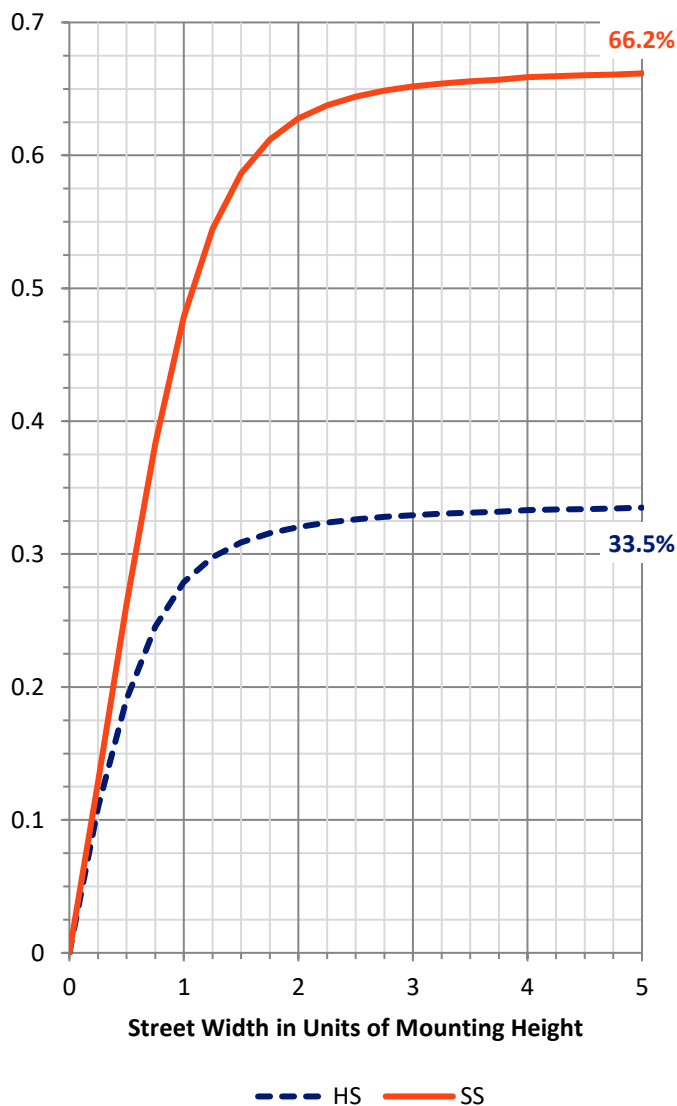
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5662.6	0.0	5662.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	11095.4	0.0	11095.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	16758.0	0.0	16758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	1.9
10°-20°	997.9	6.0
20°-30°	1695.5	10.1
30°-40°	2412.4	14.4
40°-50°	3046.8	18.2
50°-60°	3298.8	19.7
60°-70°	3068.2	18.3
70°-80°	1647.9	9.8
80°-90°	264.1	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°	16758.0	100.0
0°-180°	16758.0	100.0

Coefficient of Utilization



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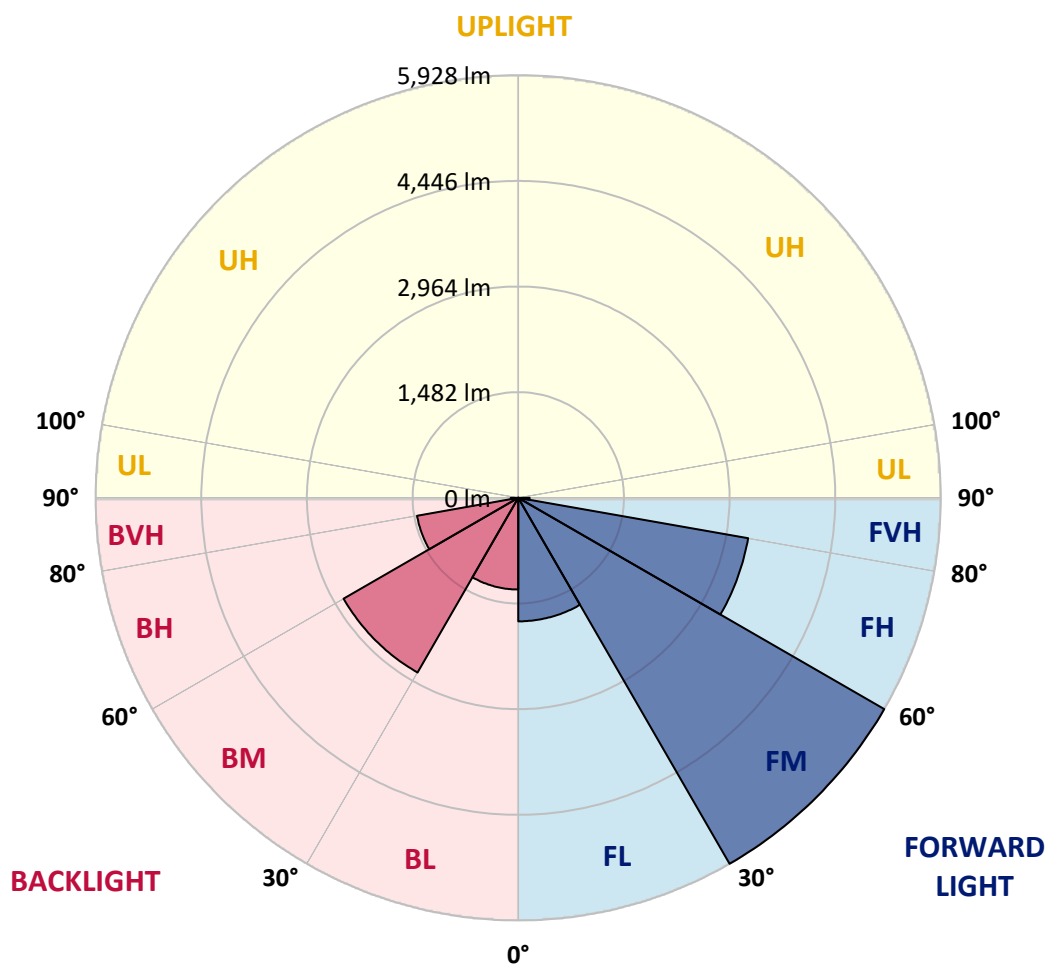
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1733.0	10.3			
FM	(30°-60°)	5928.3	35.4			
FH	(60°-80°)	3274.4	19.5			G2/5000
FVH	(80°-90°)	159.7	1.0			G2/225
BL	(0°-30°)	1286.8	7.7	B3/2500		
BM	(30°-60°)	2829.7	16.9	B3/5000		
BH	(60°-80°)	1441.8	8.6	B3/2500		G3/2500
BVH	(80°-90°)	104.3	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°	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1
2.5°	3487.8	3481.5	3456.6	3459.7	3459.7	3456.6	3419.3	3403.7	3403.7	3400.6	3366.4
5°	3612.2	3602.9	3574.9	3568.6	3556.2	3540.6	3481.5	3447.3	3431.7	3428.6	3382.0
7.5°	3758.4	3746.0	3711.8	3693.1	3662.0	3621.5	3546.9	3494.0	3456.6	3453.5	3388.2
10°	3904.7	3892.2	3851.8	3817.5	3774.0	3708.7	3612.2	3534.4	3475.3	3469.1	3391.3
12.5°	4078.9	4066.5	4016.7	3973.1	3907.8	3820.7	3693.1	3587.3	3506.4	3497.1	3400.6
15°	4262.5	4243.8	4194.0	4144.2	4063.3	3951.3	3798.9	3658.9	3556.2	3540.6	3428.6
17.5°	4414.9	4390.0	4349.6	4299.8	4209.6	4078.9	3904.7	3730.4	3602.9	3590.4	3456.6
20°	4545.6	4526.9	4483.4	4436.7	4340.2	4197.1	4004.2	3802.0	3646.4	3630.9	3478.4
22.5°	4670.0	4645.1	4620.3	4586.0	4480.3	4321.6	4119.3	3889.1	3702.4	3683.8	3506.4
25°	4813.2	4785.2	4775.8	4757.2	4632.7	4470.9	4259.4	3998.0	3780.2	3758.4	3556.2
27.5°	4990.5	4959.4	4940.7	4940.7	4791.4	4623.4	4408.7	4125.6	3870.4	3851.8	3618.4
30°	5177.2	5139.8	5111.8	5111.8	4943.8	4775.8	4554.9	4253.1	3973.1	3951.3	3699.3
32.5°	5342.1	5304.7	5273.6	5270.5	5096.3	4928.3	4707.4	4393.1	4097.6	4069.6	3798.9
35°	5469.6	5435.4	5407.4	5413.6	5248.7	5083.8	4878.5	4579.8	4253.1	4222.0	3929.6
37.5°	5547.4	5535.0	5519.4	5541.2	5388.7	5233.2	5055.8	4760.3	4430.5	4402.5	4091.3
40°	5587.9	5578.5	5640.8	5668.8	5507.0	5367.0	5233.2	4946.9	4623.4	4592.3	4278.0
42.5°	5647.0	5724.8	5749.7	5743.4	5594.1	5469.6	5395.0	5149.2	4850.5	4822.5	4502.0
45°	5435.4	5416.7	5553.6	5628.3	5600.3	5535.0	5547.4	5391.9	5115.0	5087.0	4760.3
47.5°	5152.3	5127.4	5205.2	5388.7	5497.6	5559.9	5684.3	5643.9	5419.9	5395.0	5062.1
50°	4554.9	4589.1	4878.5	5124.3	5339.0	5553.6	5799.4	5914.6	5755.9	5731.0	5385.6
52.5°	3892.2	3926.4	4228.2	4794.5	5146.1	5507.0	5883.4	6185.2	6119.9	6091.9	5731.0
55°	3410.0	3484.6	3826.9	4237.6	4872.3	5360.7	5933.2	6462.1	6511.9	6487.0	6107.5
57.5°	2930.8	2986.8	3245.1	3609.1	4498.9	5105.6	5930.1	6720.4	6922.6	6897.7	6490.1
60°	2367.7	2439.2	2644.6	3036.6	4001.1	4800.7	5843.0	6922.6	7317.7	7299.1	6860.4
62.5°	1981.9	2003.7	2149.9	2489.0	3360.2	4414.9	5647.0	7031.5	7675.5	7663.1	7193.3
65°	1596.1	1599.2	1733.0	2016.1	2741.0	3935.8	5314.1	6991.1	7946.2	7952.4	7432.9
67.5°	1232.1	1247.6	1369.0	1583.6	2177.9	3313.5	4838.0	6717.3	7949.3	7964.9	7296.0
70°	852.5	864.9	1048.5	1257.0	1683.2	2641.5	4194.0	5992.3	7296.0	7308.4	6539.9
72.5°	600.5	606.7	802.7	1004.9	1316.1	1991.2	3164.2	4956.3	6219.5	6228.8	5500.8
75°	448.0	454.2	566.3	762.3	1008.1	1378.3	2162.3	3795.8	4968.7	4968.7	4343.4
77.5°	317.4	320.5	367.1	525.8	672.0	930.3	1300.5	2485.9	3646.4	3652.6	3164.2
80°	214.7	217.8	239.6	354.7	420.0	504.0	706.3	1303.6	2299.2	2308.6	2009.9
82.5°	112.0	118.2	133.8	180.5	211.6	280.0	364.0	662.7	1272.5	1297.4	1207.2
85°	43.6	43.6	49.8	59.1	77.8	108.9	168.0	252.0	575.6	594.3	532.0
87.5°	15.6	15.6	18.7	18.7	21.8	24.9	28.0	37.3	65.3	65.3	62.2
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°	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1	3385.1
2.5°	3354.0	3354.0	3338.4	3344.6	3341.5	3335.3	3329.1	3338.4	3329.1	3307.3	3304.2
5°	3360.2	3354.0	3329.1	3326.0	3316.6	3304.2	3288.6	3294.9	3279.3	3260.6	3257.5
7.5°	3363.3	3350.9	3316.6	3304.2	3285.5	3260.6	3235.7	3235.7	3214.0	3195.3	3192.2
10°	3357.1	3341.5	3294.9	3270.0	3235.7	3198.4	3164.2	3154.8	3130.0	3108.2	3108.2
12.5°	3360.2	3338.4	3279.3	3238.8	3192.2	3145.5	3102.0	3089.5	3067.7	3045.9	3042.8
15°	3378.9	3347.7	3273.1	3220.2	3151.7	3098.8	3052.2	3042.8	3024.2	3008.6	3008.6
17.5°	3397.5	3357.1	3263.7	3189.1	3105.1	3045.9	3002.4	3002.4	2989.9	2980.6	2980.6
20°	3406.9	3360.2	3245.1	3145.5	3049.1	2986.8	2946.4	2952.6	2949.5	2946.4	2946.4
22.5°	3428.6	3366.4	3229.5	3105.1	2989.9	2924.6	2887.3	2896.6	2893.5	2893.5	2896.6
25°	3462.9	3382.0	3217.1	3067.7	2933.9	2862.4	2821.9	2828.2	2828.2	2828.2	2828.2
27.5°	3509.5	3413.1	3214.0	3033.5	2877.9	2797.0	2747.3	2747.3	2734.8	2737.9	2741.0
30°	3581.1	3472.2	3220.2	3002.4	2818.8	2716.2	2657.0	2647.7	2644.6	2650.8	2653.9
32.5°	3668.2	3553.1	3257.5	2980.6	2756.6	2625.9	2551.3	2548.1	2538.8	2538.8	2538.8
35°	3777.1	3630.9	3291.7	2977.5	2694.4	2529.5	2448.6	2439.2	2417.5	2408.1	2408.1
37.5°	3917.1	3752.2	3332.2	2955.7	2641.5	2436.1	2339.7	2308.6	2283.7	2280.6	2280.6
40°	4088.2	3889.1	3391.3	2930.8	2585.5	2339.7	2212.1	2159.2	2162.3	2174.8	2174.8
42.5°	4290.5	4057.1	3466.0	2918.4	2504.6	2240.1	2062.8	2000.6	2022.3	2034.8	2037.9
45°	4526.9	4256.2	3550.0	2902.8	2429.9	2128.1	1904.1	1826.3	1835.7	1838.8	1841.9
47.5°	4800.7	4477.1	3637.1	2890.4	2345.9	1988.1	1729.9	1627.2	1624.1	1605.4	1611.6
50°	5087.0	4710.5	3727.3	2868.6	2243.2	1823.2	1546.3	1425.0	1400.1	1372.1	1375.2
52.5°	5391.9	4950.1	3811.3	2834.4	2115.7	1655.2	1372.1	1241.4	1191.6	1160.5	1166.7
55°	5727.9	5195.8	3892.2	2781.5	1981.9	1487.2	1216.5	1082.7	1020.5	995.6	998.7
57.5°	6035.9	5432.3	3951.3	2716.2	1835.7	1334.7	1079.6	948.9	908.5	905.4	908.5
60°	6334.6	5631.4	3976.2	2625.9	1686.3	1194.7	952.1	852.5	824.5	840.0	843.2
62.5°	6586.6	5759.0	3963.8	2504.6	1533.9	1060.9	849.4	777.8	759.2	790.3	793.4
65°	6732.8	5799.4	3876.7	2330.4	1369.0	930.3	752.9	675.1	665.8	684.5	693.8
67.5°	6539.9	5547.4	3640.2	2090.8	1185.4	808.9	659.6	597.4	581.8	597.4	597.4
70°	5796.3	4806.9	3080.2	1711.2	983.2	690.7	572.5	528.9	516.5	528.9	525.8
72.5°	4828.7	3998.0	2426.8	1334.7	774.7	581.8	497.8	457.4	444.9	432.5	426.2
75°	3746.0	3036.6	1761.0	980.1	584.9	466.7	416.9	379.6	348.5	360.9	354.7
77.5°	2744.2	2131.2	1247.6	678.3	420.0	360.9	326.7	298.7	276.9	301.8	298.7
80°	1767.2	1378.3	833.8	454.2	289.3	252.0	239.6	224.0	245.8	320.5	326.7
82.5°	1079.6	874.3	497.8	295.6	189.8	168.0	155.6	155.6	252.0	276.9	280.0
85°	482.2	463.6	270.7	152.5	105.8	96.4	87.1	112.0	102.7	74.7	77.8
87.5°	77.8	80.9	59.1	52.9	40.4	40.4	31.1	21.8	15.6	9.3	9.3
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)