

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: P836469

Luminaire Tested: **ARCH3-190-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24789 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.4
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

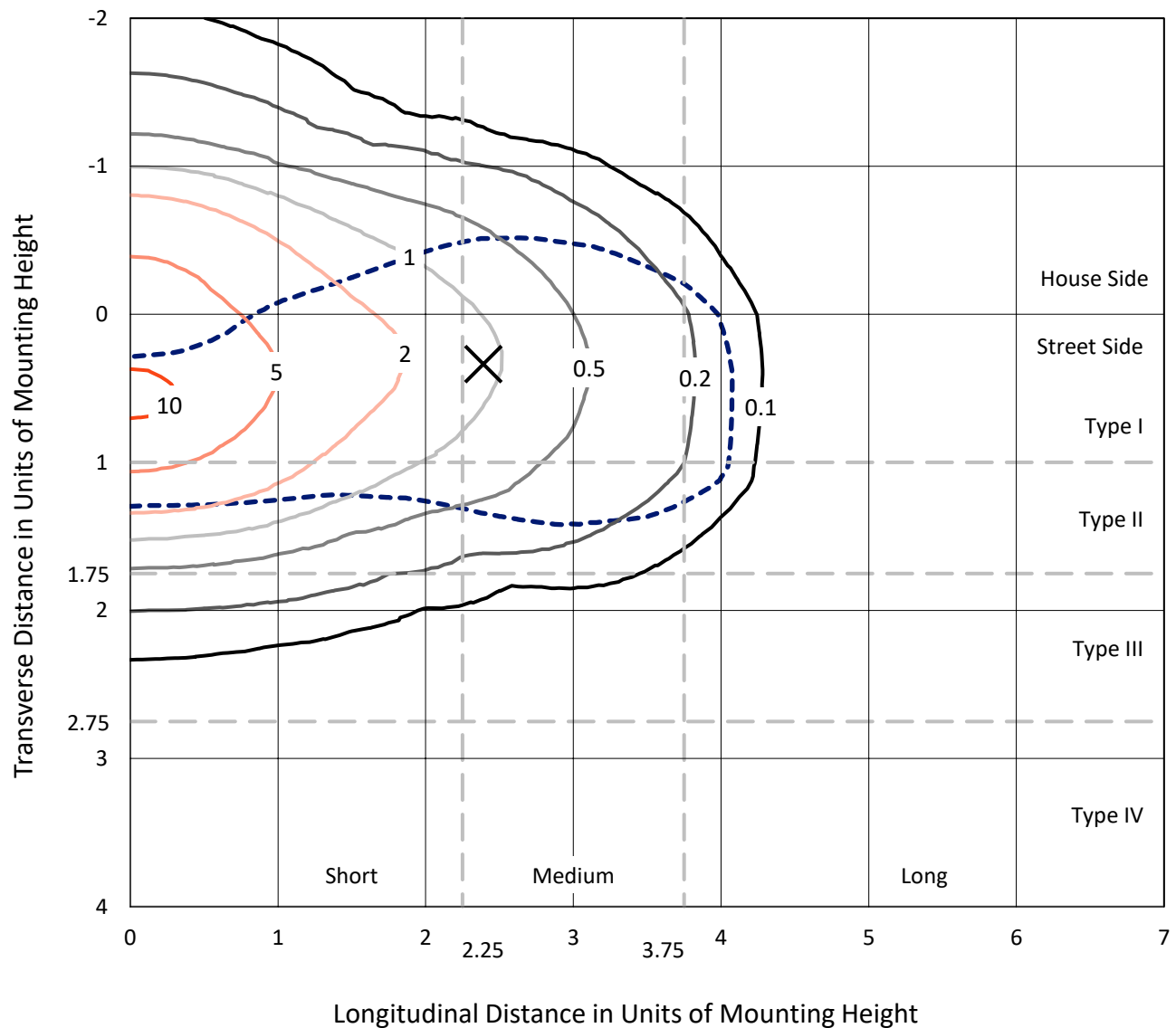


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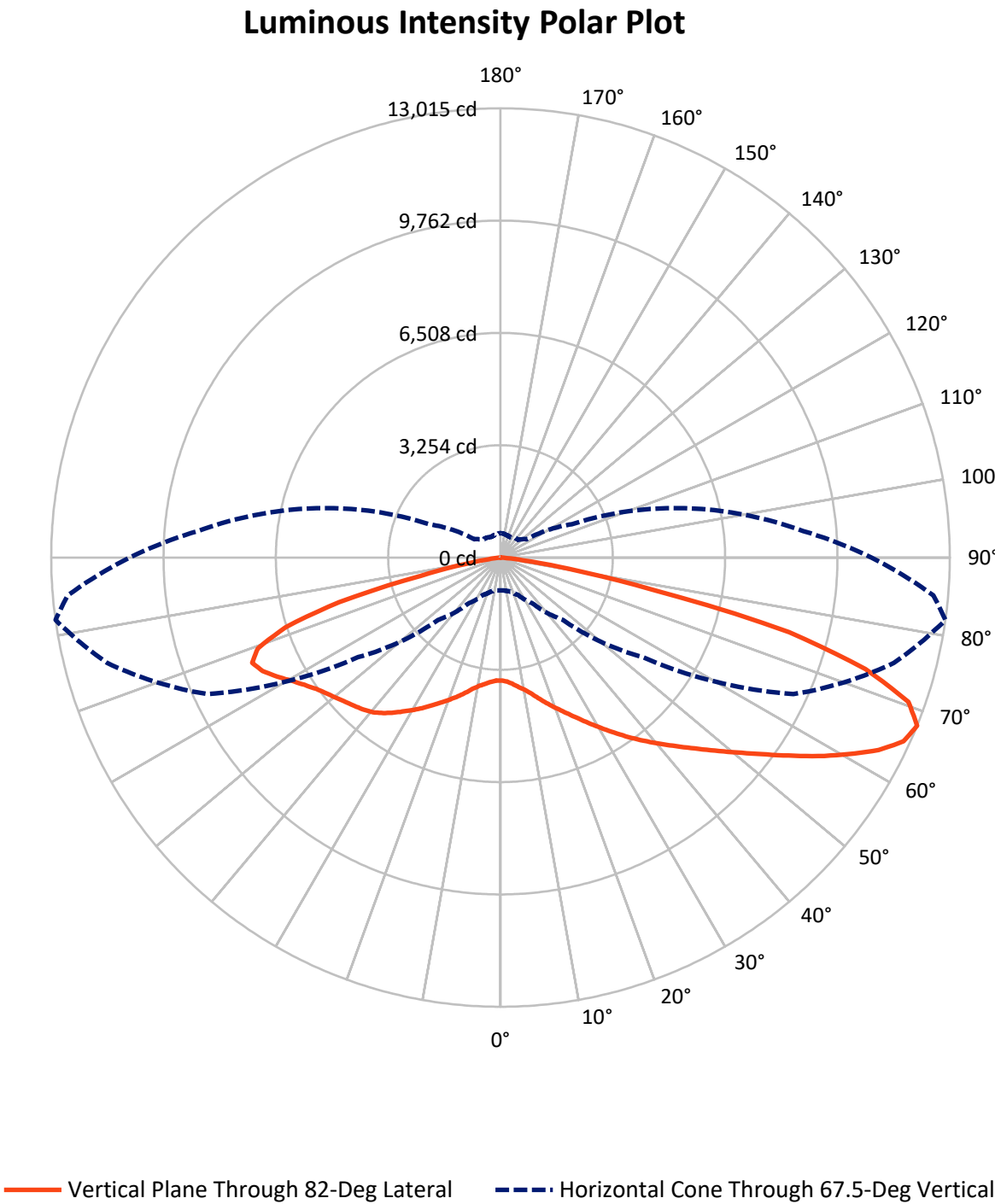
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
Type II - Medium - N/A

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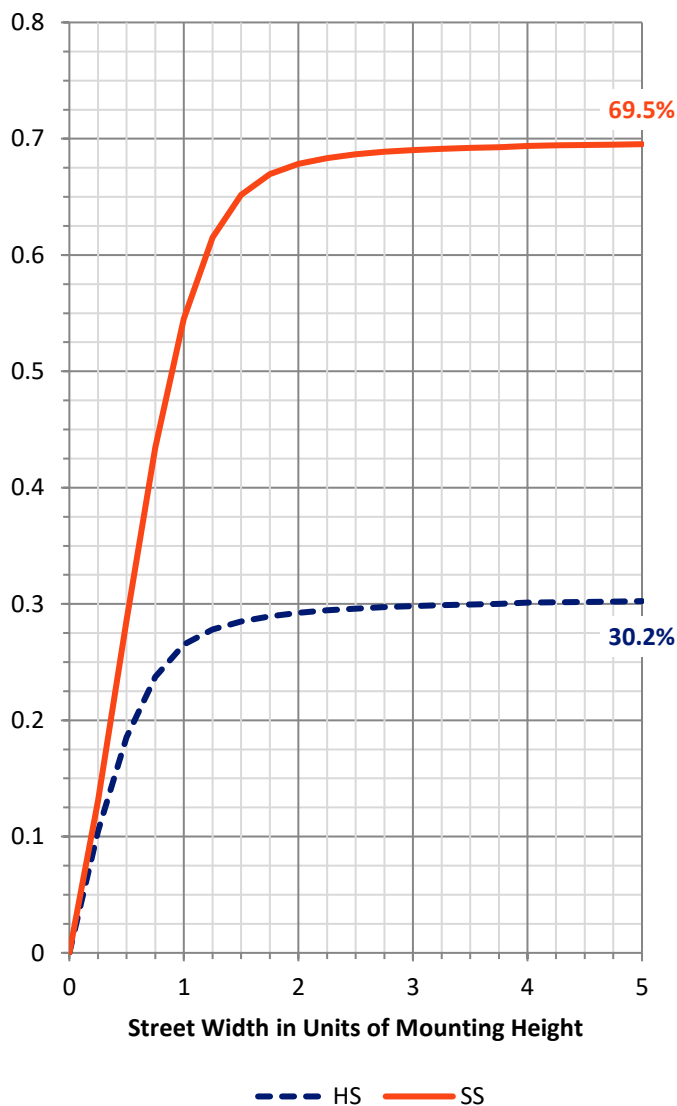
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7549.3	0.0	7549.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	17239.8	0.0	17239.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	24789.0	0.0	24789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.3	1.5
10°-20°	1326.5	5.4
20°-30°	2665.9	10.8
30°-40°	4187.8	16.9
40°-50°	5101.6	20.6
50°-60°	4820.4	19.4
60°-70°	3980.5	16.1
70°-80°	2167.6	8.7
80°-90°	170.4	0.7
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°	24789.0	100.0
0°-180°	24789.0	100.0

Coefficient of Utilization



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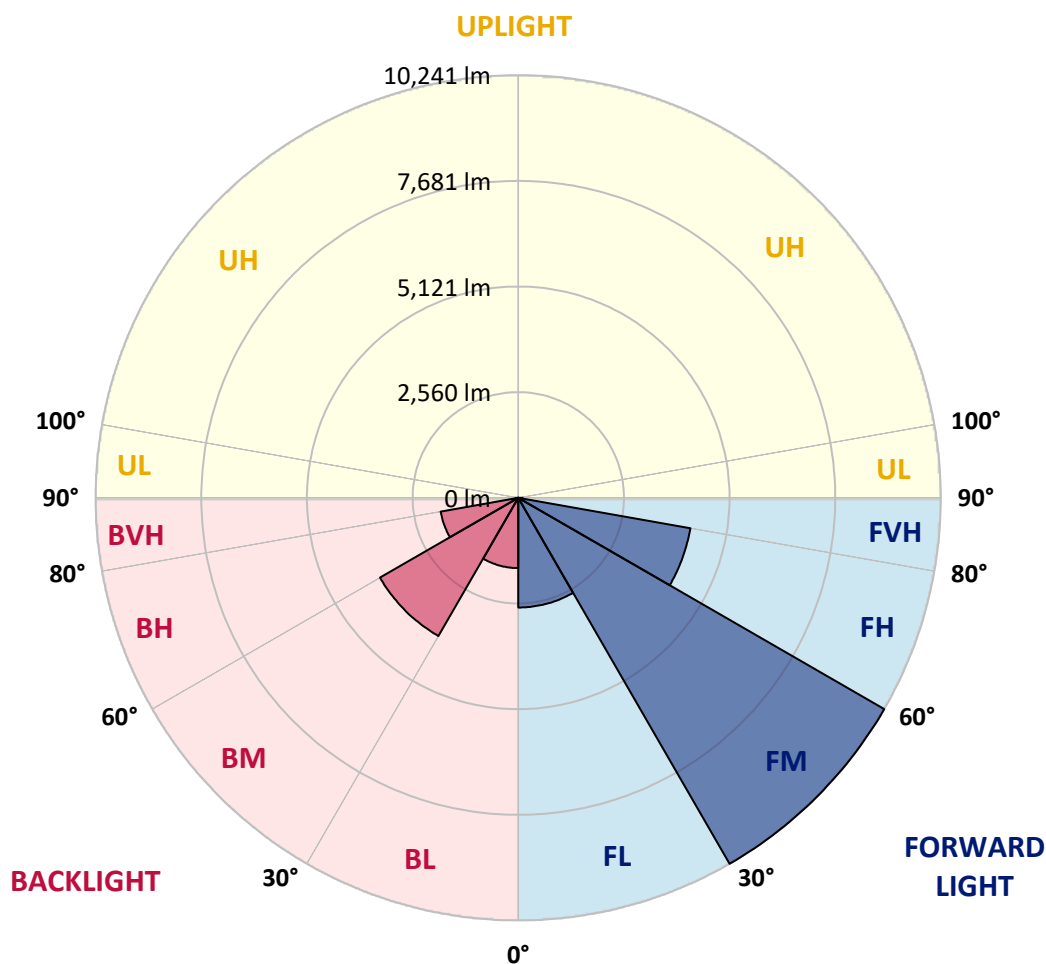
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2658.3	10.7			
FM	(30°-60°)	10241.4	41.3			
FH	(60°-80°)	4237.3	17.1			G2/5000
FVH	(80°-90°)	102.7	0.4			G2/225
BL	(0°-30°)	1702.4	6.9	B3/2500		
BM	(30°-60°)	3868.4	15.6	B3/5000		
BH	(60°-80°)	1910.7	7.7	B3/2500		G3/2500
BVH	(80°-90°)	67.7	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4
2.5°	3725.4	3725.4	3754.2	3754.2	3729.0	3689.4	3678.6	3635.4	3595.8	3595.8	3599.4
5°	4081.7	4078.1	4099.7	4070.9	4009.7	3930.5	3876.6	3783.0	3703.8	3678.6	3675.0
7.5°	4517.2	4513.6	4524.4	4477.7	4362.5	4232.9	4124.9	3973.7	3844.2	3790.2	3775.8
10°	5003.2	4999.6	4988.8	4909.6	4754.8	4553.2	4391.3	4182.5	3988.1	3901.7	3883.8
12.5°	5561.1	5553.9	5528.7	5413.5	5201.1	4942.0	4708.0	4438.1	4178.9	4060.1	4020.5
15°	6183.8	6173.0	6126.2	5985.8	5701.4	5373.9	5071.6	4726.0	4409.3	4254.5	4200.5
17.5°	6838.9	6838.9	6766.9	6558.1	6241.4	5834.6	5460.3	5021.2	4650.4	4459.7	4394.9
20°	7504.7	7501.1	7411.2	7159.2	6784.9	6316.9	5841.8	5359.5	4898.8	4668.4	4589.2
22.5°	8206.6	8199.4	8087.9	7799.9	7353.6	6824.5	6270.2	5694.3	5172.3	4895.2	4794.4
25°	9012.9	9002.1	8865.3	8512.6	7983.5	7386.0	6752.5	6086.6	5485.5	5147.1	5028.4
27.5°	9869.6	9855.2	9693.2	9282.9	8703.3	7983.5	7285.2	6540.1	5831.0	5427.9	5294.7
30°	10632.6	10621.8	10445.5	10024.3	9358.4	8577.4	7792.7	6993.6	6194.6	5726.6	5561.1
32.5°	11208.5	11208.5	11050.2	10636.2	9945.1	9146.1	8303.8	7422.0	6572.5	6047.0	5852.6
35°	11557.7	11568.5	11431.7	11100.5	10449.1	9682.4	8832.9	7925.9	6975.6	6388.9	6180.2
37.5°	11608.1	11644.1	11564.9	11341.7	10798.2	10128.7	9351.2	8411.8	7393.2	6734.5	6500.5
40°	11374.1	11399.3	11402.9	11316.5	10942.2	10449.1	9808.4	8926.5	7835.9	7098.0	6828.1
42.5°	10906.2	10924.2	10956.6	10981.8	10837.8	10589.4	10157.5	9405.2	8307.4	7468.8	7152.0
45°	10301.5	10297.9	10351.9	10459.9	10452.7	10510.2	10351.9	9840.8	8796.9	7889.9	7511.9
47.5°	9398.0	9380.0	9570.8	9815.6	9937.9	10207.9	10355.5	10182.7	9329.6	8354.2	7922.3
50°	7983.5	7965.5	8383.0	8958.9	9318.8	9729.2	10157.5	10387.9	9887.6	8876.1	8368.6
52.5°	6263.0	6245.0	6774.1	7781.9	8566.6	9164.1	9758.0	10434.7	10416.7	9459.2	8872.5
55°	4657.6	4643.2	5157.9	6248.6	7519.1	8509.0	9268.5	10312.3	10913.4	10128.7	9484.4
57.5°	3282.7	3275.5	3721.8	4625.2	6173.0	7709.9	8796.9	10074.7	11370.5	10855.8	10175.5
60°	2303.6	2292.8	2616.8	3315.0	4668.4	6504.1	8329.0	9758.0	11712.4	11572.1	10909.8
62.5°	1551.3	1544.1	1774.5	2357.6	3315.0	5006.8	7619.9	9545.6	11906.8	12292.0	11651.3
65°	1177.0	1173.4	1277.8	1598.1	2346.8	3595.8	6493.3	9520.4	11932.0	12831.9	12281.2
67.5°	950.2	953.8	1011.4	1195.0	1623.3	2555.6	5035.6	9362.0	11798.8	13015.4	12587.1
70°	777.5	777.5	802.7	925.0	1198.6	1724.1	3516.6	8642.2	11428.1	12536.7	12223.6
72.5°	593.9	597.5	676.7	748.7	903.4	1209.4	2253.2	7152.0	10553.4	11053.8	10816.2
75°	471.5	467.9	514.7	615.5	701.9	863.9	1382.2	5129.1	8980.5	8638.6	8487.4
77.5°	338.3	334.7	370.7	457.1	532.7	611.9	824.3	2588.0	4884.4	4488.5	4376.9
80°	230.4	223.2	255.6	316.7	352.7	359.9	403.1	993.4	2130.8	2008.5	1983.3
82.5°	118.8	118.8	136.8	180.0	183.6	187.2	180.0	320.3	705.5	658.7	629.9
85°	46.8	46.8	50.4	61.2	61.2	64.8	64.8	82.8	75.6	72.0	68.4
87.5°	3.6	3.6	7.2	7.2	10.8	10.8	10.8	14.4	18.0	18.0	18.0
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°	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4
2.5°	3592.2	3577.8	3531.0	3520.2	3513.0	3502.2	3505.8	3480.6	3469.8	3473.4	3459.0
5°	3657.0	3631.8	3574.2	3549.0	3541.8	3531.0	3541.8	3523.8	3505.8	3513.0	3505.8
7.5°	3747.0	3711.0	3639.0	3613.8	3610.2	3599.4	3613.8	3599.4	3585.0	3592.2	3577.8
10°	3840.6	3793.8	3714.6	3689.4	3689.4	3685.8	3700.2	3678.6	3664.2	3667.8	3660.6
12.5°	3977.3	3916.1	3829.8	3808.2	3797.4	3808.2	3811.8	3783.0	3757.8	3761.4	3750.6
15°	4142.9	4074.5	3980.9	3948.5	3941.3	3937.7	3923.3	3887.4	3855.0	3851.4	3840.6
17.5°	4322.9	4236.5	4124.9	4092.5	4060.1	4049.3	4013.3	3966.5	3916.1	3916.1	3901.7
20°	4495.7	4398.5	4265.3	4218.5	4171.7	4128.5	4067.3	3991.7	3926.9	3916.1	3901.7
22.5°	4682.8	4567.6	4412.9	4344.5	4261.7	4175.3	4070.9	3970.1	3887.4	3869.4	3858.6
25°	4891.6	4747.6	4564.0	4463.3	4330.1	4196.9	4042.1	3912.5	3815.4	3786.6	3779.4
27.5°	5121.9	4949.2	4726.0	4578.4	4384.1	4175.3	3977.3	3822.6	3703.8	3667.8	3657.0
30°	5355.9	5150.7	4873.6	4657.6	4384.1	4106.9	3858.6	3678.6	3541.8	3491.4	3484.2
32.5°	5589.9	5359.5	5006.8	4700.8	4340.9	3991.7	3703.8	3491.4	3336.6	3275.5	3289.9
35°	5870.6	5589.9	5129.1	4718.8	4268.9	3851.4	3527.4	3279.1	3120.7	3066.7	3077.5
37.5°	6162.2	5820.2	5226.3	4704.4	4168.1	3693.0	3329.4	3088.3	2890.3	2796.7	2807.5
40°	6414.1	6029.0	5294.7	4654.0	4038.5	3513.0	3135.1	2818.3	2544.8	2454.8	2444.0
42.5°	6651.7	6183.8	5330.7	4578.4	3891.0	3304.2	2857.9	2451.2	2177.6	2066.1	2069.7
45°	6900.0	6334.9	5316.3	4477.7	3707.4	3059.5	2501.6	2091.3	1850.1	1749.3	1752.9
47.5°	7184.4	6496.9	5301.9	4369.7	3484.2	2742.7	2159.6	1774.5	1565.7	1493.8	1486.6
50°	7486.8	6676.9	5283.9	4236.5	3235.9	2390.0	1821.3	1479.4	1303.0	1256.2	1245.4
52.5°	7828.7	6871.3	5273.1	4078.1	2937.1	2015.7	1518.9	1220.2	1101.4	1069.0	1065.4
55°	8239.0	7098.0	5287.5	3887.4	2577.2	1662.9	1263.4	1051.0	971.8	953.8	950.2
57.5°	8739.3	7389.6	5330.7	3664.2	2199.2	1357.0	1076.2	946.6	896.3	881.9	881.9
60°	9282.9	7720.7	5409.9	3412.2	1821.3	1119.4	953.8	863.9	842.3	860.3	860.3
62.5°	9869.6	8109.4	5550.3	3106.3	1468.6	946.6	856.7	795.5	781.1	817.1	820.7
65°	10413.1	8487.4	5640.3	2739.1	1166.2	820.7	781.1	727.1	734.3	770.3	766.7
67.5°	10747.8	8800.5	5514.3	2278.4	925.0	727.1	701.9	655.1	673.1	701.9	705.5
70°	10542.6	8624.2	4891.6	1720.5	723.5	633.5	615.5	586.7	601.1	637.1	651.5
72.5°	9538.4	7724.3	3804.6	1162.6	583.1	532.7	539.9	525.5	543.5	575.9	608.3
75°	7742.3	5838.2	2552.0	745.1	460.7	453.5	464.3	453.5	460.7	493.1	511.1
77.5°	4042.1	2847.1	1270.6	464.3	341.9	352.7	370.7	374.3	395.9	403.1	410.3
80°	1886.1	1281.4	529.1	259.2	226.8	248.4	284.4	288.0	295.2	305.9	309.5
82.5°	615.5	385.1	244.8	140.4	129.6	140.4	183.6	219.6	223.2	244.8	244.8
85°	64.8	39.6	54.0	57.6	50.4	61.2	82.8	79.2	36.0	21.6	21.6
87.5°	18.0	14.4	18.0	18.0	14.4	14.4	10.8	3.6	0.0	0.0	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)