

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: P841669

Luminaire Tested: **ARCH4-210-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22658 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 213.1
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

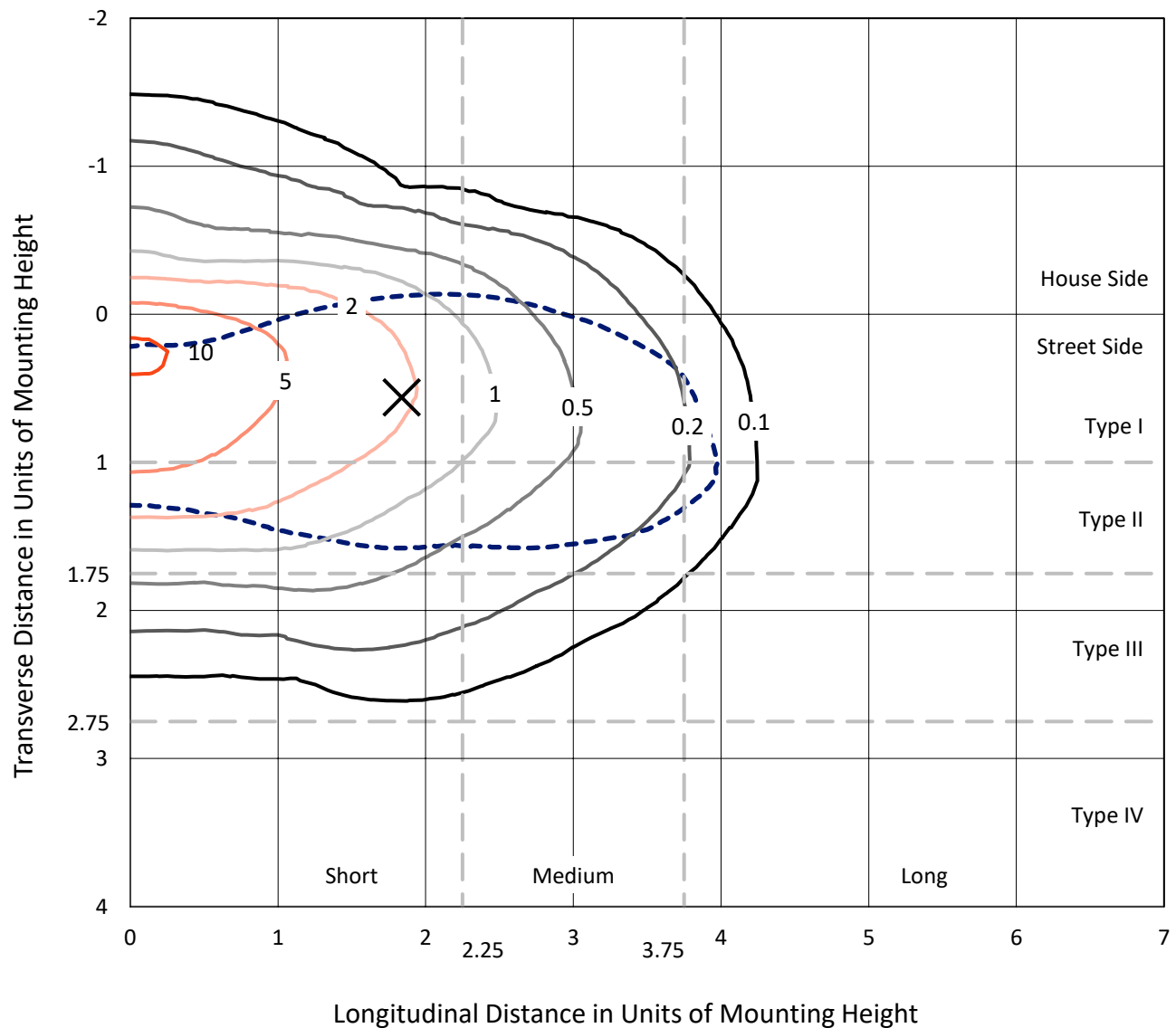


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Iso-Footcandle Lines of Horizontal Illumination

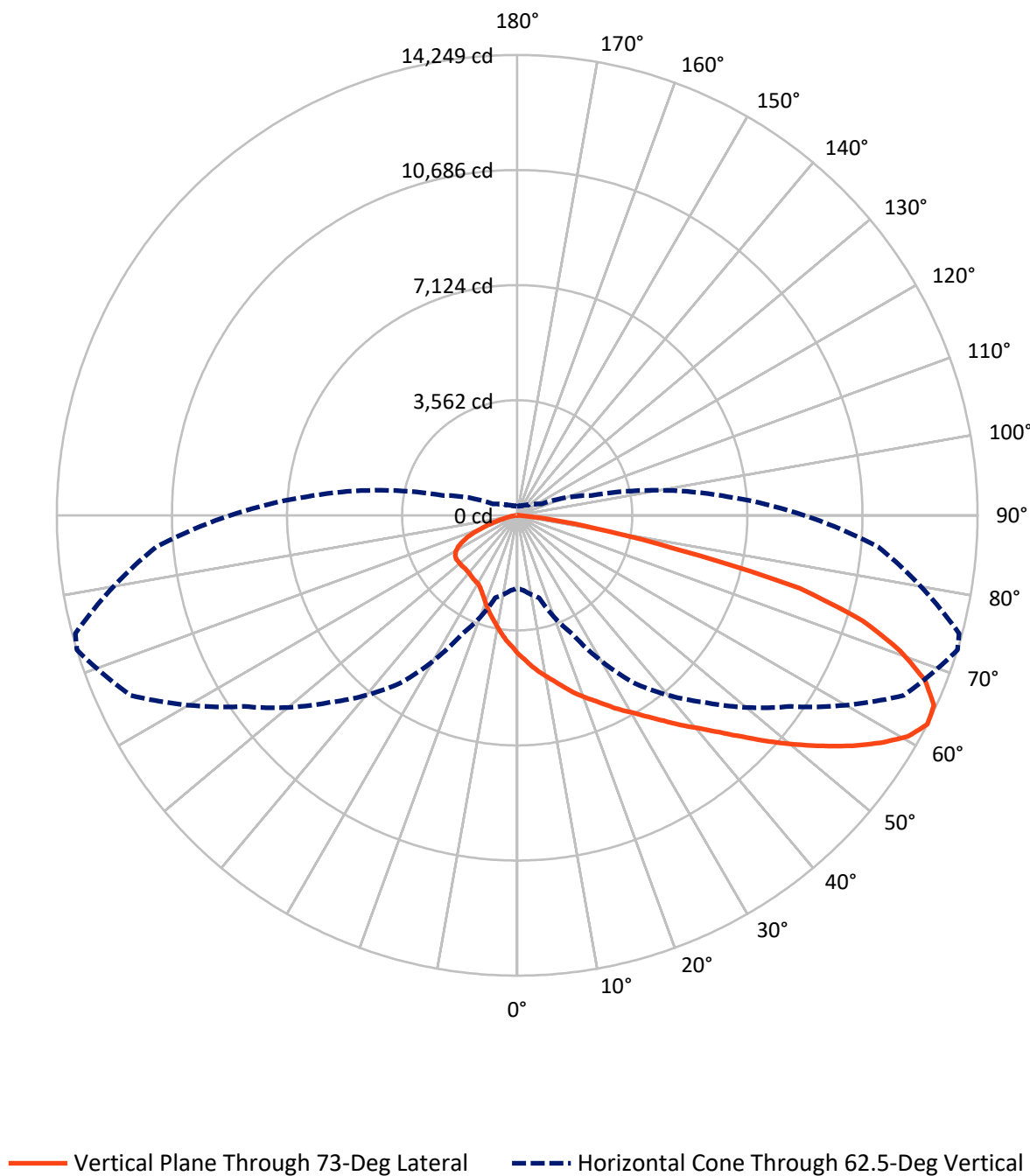
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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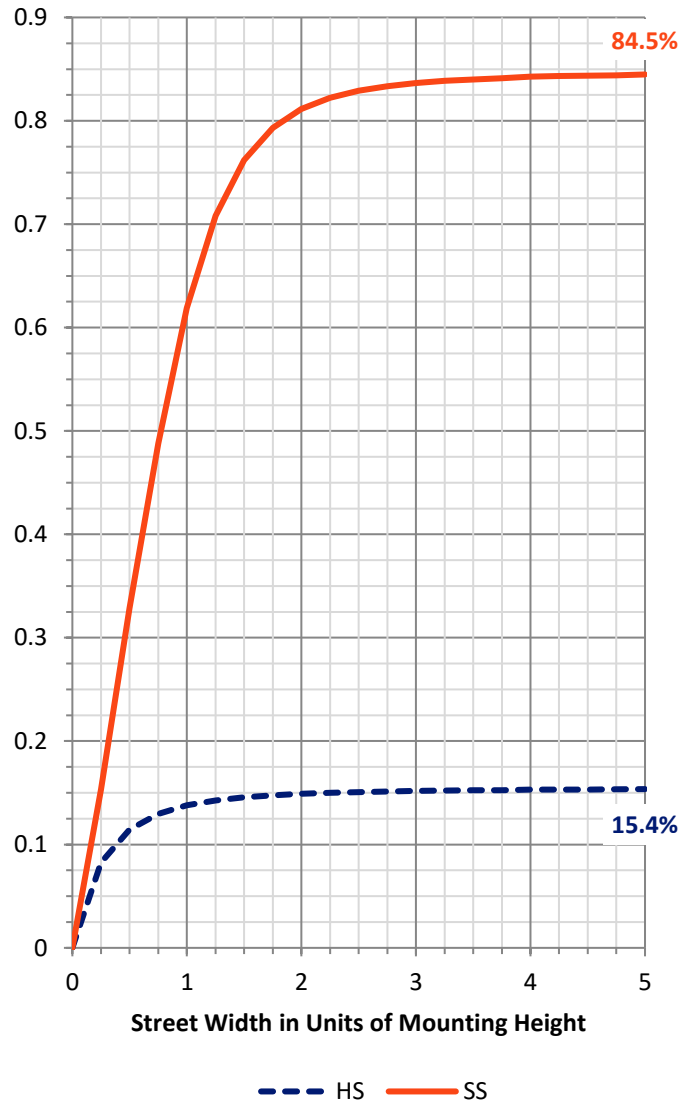
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3512.3	0.0	3512.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	19145.7	0.0	19145.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	22658.0	0.0	22658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.5	1.8
10°-20°	1250.7	5.5
20°-30°	2081.8	9.2
30°-40°	3141.1	13.9
40°-50°	4390.5	19.4
50°-60°	4849.6	21.4
60°-70°	4224.6	18.6
70°-80°	2134.0	9.4
80°-90°	171.3	0.8
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°	22658.0	100.0
0°-180°	22658.0	100.0

Coefficient of Utilization



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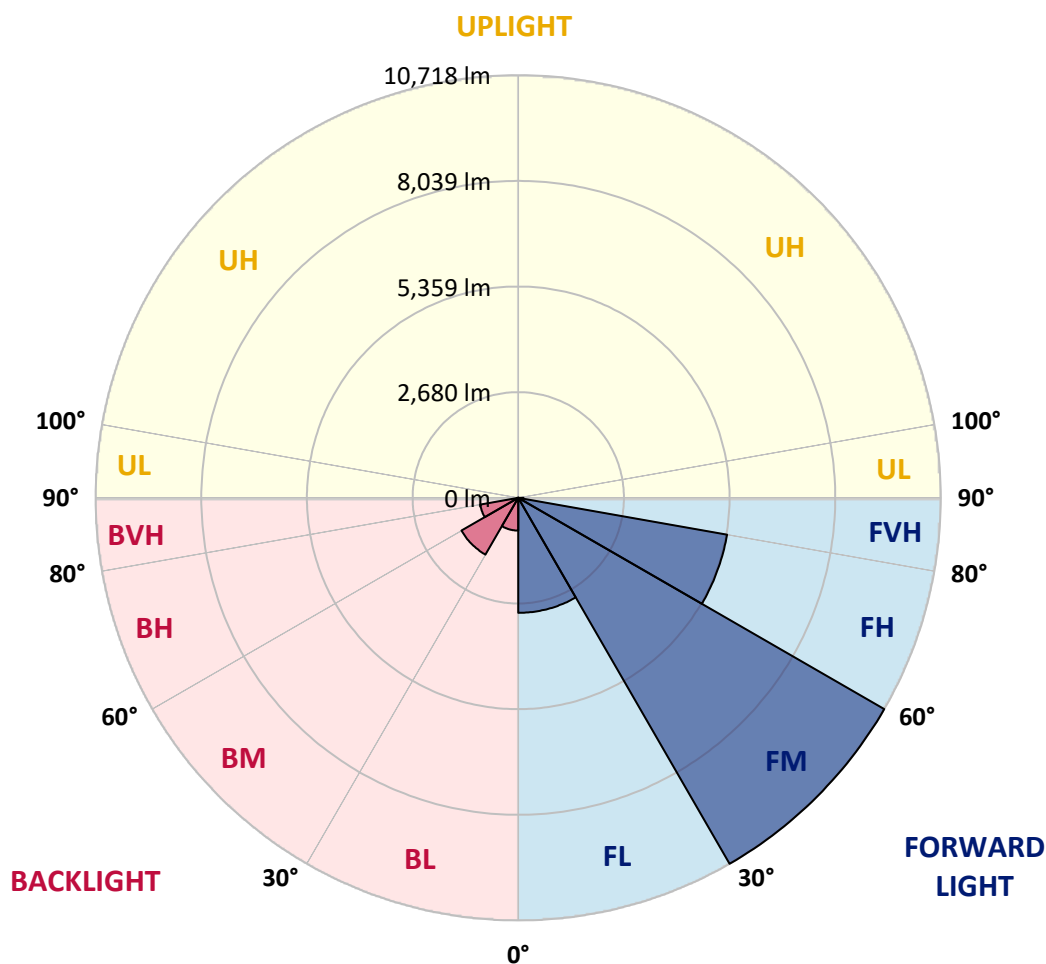
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2916.8	12.9			
FM	(30°-60°)	10718.1	47.3			
FH	(60°-80°)	5378.3	23.7			G3/7500
FVH	(80°-90°)	132.6	0.6			G2/225
BL	(0°-30°)	830.2	3.7	B2/1000		
BM	(30°-60°)	1663.1	7.3	B2/2500		
BH	(60°-80°)	980.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	38.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3
2.5°	4882.8	4937.1	4907.5	4927.2	4828.5	4764.3	4690.2	4547.1	4468.1	4458.2	4364.4
5°	5598.7	5657.9	5608.5	5593.7	5420.9	5272.8	5105.0	4853.2	4685.3	4655.7	4448.3
7.5°	6314.6	6368.9	6309.6	6265.2	6033.1	5771.5	5524.6	5154.3	4892.7	4843.3	4517.4
10°	6818.1	6867.5	6823.1	6778.6	6536.7	6270.1	5919.6	5435.7	5080.3	5001.3	4561.9
12.5°	7198.3	7227.9	7208.2	7168.7	6941.6	6655.2	6319.5	5751.7	5292.6	5193.8	4631.0
15°	7509.3	7558.7	7534.0	7504.4	7287.2	7000.8	6679.9	6082.5	5539.4	5416.0	4734.7
17.5°	7716.7	7751.2	7756.2	7756.2	7563.6	7282.2	6971.2	6383.7	5786.3	5628.3	4833.4
20°	7810.5	7850.0	7874.7	7914.2	7756.2	7514.3	7198.3	6640.4	6018.3	5840.6	4927.2
22.5°	7854.9	7889.5	7953.7	8042.5	7914.2	7711.8	7420.5	6877.4	6250.4	6062.8	5035.8
25°	7889.5	7933.9	8027.7	8195.6	8106.7	7933.9	7682.1	7148.9	6526.8	6334.3	5193.8
27.5°	7983.3	8037.6	8126.5	8328.9	8220.3	8136.3	7958.6	7440.2	6818.1	6620.7	5386.4
30°	8309.1	8353.6	8348.6	8477.0	8343.7	8319.0	8195.6	7721.6	7099.6	6902.1	5613.5
32.5°	8901.6	8946.0	8837.4	8788.0	8496.7	8501.7	8452.3	8022.8	7435.3	7232.9	5875.1
35°	9538.5	9587.8	9444.7	9360.7	8872.0	8728.8	8753.5	8398.0	7810.5	7608.1	6201.0
37.5°	10106.2	10165.5	10042.1	9918.6	9424.9	9094.1	9089.2	8817.7	8240.0	8032.7	6561.4
40°	10417.3	10486.4	10560.5	10491.3	9972.9	9607.6	9449.6	9247.2	8664.6	8452.3	6951.4
42.5°	10565.4	10757.9	10891.2	10846.8	10422.2	10051.9	9864.3	9696.5	9183.0	8975.6	7415.5
45°	10150.7	10155.6	10437.0	10678.9	10600.0	10353.1	10318.5	10200.0	9775.5	9578.0	7938.9
47.5°	9632.3	9592.8	9790.3	10219.8	10442.0	10506.1	10708.6	10757.9	10451.8	10254.4	8472.1
50°	8388.1	8412.8	9054.6	9671.8	10106.2	10521.0	10985.0	11330.6	11148.0	10960.4	9034.9
52.5°	6823.1	6882.3	7617.9	8975.6	9661.9	10372.8	11148.0	11903.3	11858.9	11681.2	9597.7
55°	5470.3	5564.1	6344.2	7815.4	9094.1	10042.1	11217.1	12426.7	12594.5	12431.6	10150.7
57.5°	4181.7	4280.5	4937.1	6447.9	8368.4	9503.9	11167.7	12885.8	13280.8	13177.1	10659.2
60°	3149.9	3248.6	3668.3	5228.4	7460.0	8901.6	10920.9	13187.0	13897.9	13789.3	11029.5
62.5°	2256.3	2335.2	2646.3	4068.2	6354.0	8185.7	10313.6	13191.9	14248.5	14159.6	11207.2
65°	1624.3	1624.3	1876.1	2903.0	5317.3	7326.7	9395.3	12584.7	14174.4	14149.7	11083.8
67.5°	1170.1	1180.0	1382.4	2029.1	4241.0	6284.9	8205.5	11503.4	13601.7	13725.1	10639.5
70°	829.4	854.1	947.9	1416.9	3204.2	4961.8	6931.7	10086.5	12569.9	12787.1	9780.4
72.5°	641.8	656.6	720.8	987.4	2340.2	3688.0	5524.6	8506.6	11192.4	11439.3	8610.3
75°	493.7	508.5	557.9	725.8	1678.6	2587.0	3925.0	6600.9	9025.0	9464.4	6916.9
77.5°	360.4	380.2	414.7	528.3	977.5	1644.1	2379.7	3712.7	4981.5	5188.9	3623.8
80°	167.9	192.5	241.9	340.7	528.3	775.1	844.2	1431.8	2394.5	2503.1	1965.0
82.5°	93.8	118.5	138.2	207.4	266.6	276.5	286.4	360.4	903.5	997.3	824.5
85°	44.4	59.2	64.2	88.9	88.9	79.0	93.8	69.1	148.1	177.7	172.8
87.5°	0.0	4.9	9.9	24.7	19.7	14.8	14.8	14.8	14.8	19.7	14.8
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°	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3
2.5°	4320.0	4255.8	4107.7	3979.3	3895.4	3821.3	3722.6	3678.1	3599.1	3614.0	3569.5
5°	4344.6	4226.2	3964.5	3722.6	3544.8	3386.9	3214.1	3115.3	3006.7	2996.8	2962.3
7.5°	4359.5	4176.8	3801.6	3460.9	3189.4	2947.4	2715.4	2587.0	2453.7	2424.1	2394.5
10°	4344.6	4102.7	3633.7	3189.4	2829.0	2527.8	2266.1	2103.2	1965.0	1930.4	1900.8
12.5°	4359.5	4063.2	3475.7	2937.6	2508.0	2167.4	1871.2	1703.3	1574.9	1540.4	1520.6
15°	4394.0	4038.5	3342.4	2710.5	2221.7	1841.5	1550.2	1407.1	1303.4	1268.8	1259.0
17.5°	4423.6	4013.9	3199.2	2488.3	1935.3	1555.2	1303.4	1184.9	1096.0	1061.5	1051.6
20°	4463.1	3979.3	3056.1	2276.0	1683.6	1328.1	1105.9	1002.2	933.1	908.4	903.5
22.5°	4497.7	3954.6	2922.8	2063.7	1451.5	1145.4	957.8	873.9	824.5	799.8	799.8
25°	4586.6	3964.5	2809.2	1866.2	1278.7	1002.2	844.2	780.1	740.6	725.8	725.8
27.5°	4690.2	4004.0	2720.3	1698.4	1130.6	893.6	765.3	710.9	691.2	671.4	676.4
30°	4838.4	4083.0	2661.1	1560.1	1022.0	809.7	701.1	661.6	641.8	636.9	636.9
32.5°	5026.0	4211.3	2656.2	1471.3	943.0	745.5	656.6	622.1	612.2	607.3	607.3
35°	5248.1	4324.9	2626.5	1431.8	893.6	701.1	622.1	597.4	592.5	592.5	592.5
37.5°	5514.7	4512.5	2606.8	1377.5	868.9	676.4	597.4	577.6	577.6	577.6	577.6
40°	5791.2	4665.6	2577.2	1328.1	859.1	661.6	582.6	557.9	557.9	557.9	557.9
42.5°	6122.0	4887.7	2567.3	1303.4	844.2	651.7	562.8	533.2	538.1	538.1	543.1
45°	6521.9	5139.5	2562.4	1278.7	839.3	641.8	543.1	508.5	513.5	508.5	508.5
47.5°	6926.8	5430.8	2577.2	1263.9	834.4	631.9	528.3	483.8	483.8	478.9	478.9
50°	7351.3	5697.4	2587.0	1249.1	824.5	612.2	503.6	464.1	454.2	444.3	449.3
52.5°	7751.2	5944.3	2592.0	1224.4	794.9	582.6	483.8	439.4	424.6	409.8	414.7
55°	8151.2	6181.2	2601.9	1194.8	755.4	553.0	459.2	414.7	395.0	375.2	375.2
57.5°	8511.6	6388.6	2577.2	1120.7	710.9	523.3	434.5	385.1	355.5	335.7	335.7
60°	8758.4	6536.7	2503.1	1012.1	651.7	488.8	409.8	355.5	320.9	306.1	306.1
62.5°	8876.9	6561.4	2369.8	834.4	577.6	454.2	380.2	325.8	296.2	286.4	286.4
65°	8763.4	6452.8	2162.5	627.0	498.6	414.7	350.5	301.2	271.5	246.9	246.9
67.5°	8368.4	6146.7	1876.1	474.0	424.6	375.2	320.9	276.5	241.9	222.2	222.2
70°	7573.5	5509.8	1451.5	380.2	360.4	325.8	291.3	246.9	217.2	192.5	192.5
72.5°	6531.8	4670.5	1022.0	306.1	306.1	276.5	246.9	217.2	187.6	167.9	167.9
75°	5011.2	3456.0	686.3	246.9	251.8	232.0	202.4	177.7	158.0	143.2	143.2
77.5°	2735.2	1708.2	419.7	182.7	187.6	177.7	158.0	143.2	133.3	118.5	118.5
80°	1328.1	750.4	241.9	128.4	133.3	128.4	118.5	103.7	103.7	93.8	93.8
82.5°	557.9	281.4	128.4	88.9	88.9	79.0	74.1	74.1	74.1	69.1	69.1
85°	138.2	54.3	54.3	49.4	49.4	49.4	44.4	44.4	44.4	34.6	39.5
87.5°	19.7	19.7	19.7	19.7	19.7	19.7	14.8	4.9	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)