

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: P841701

Luminaire Tested: **ARCH4-210-750-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33236 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

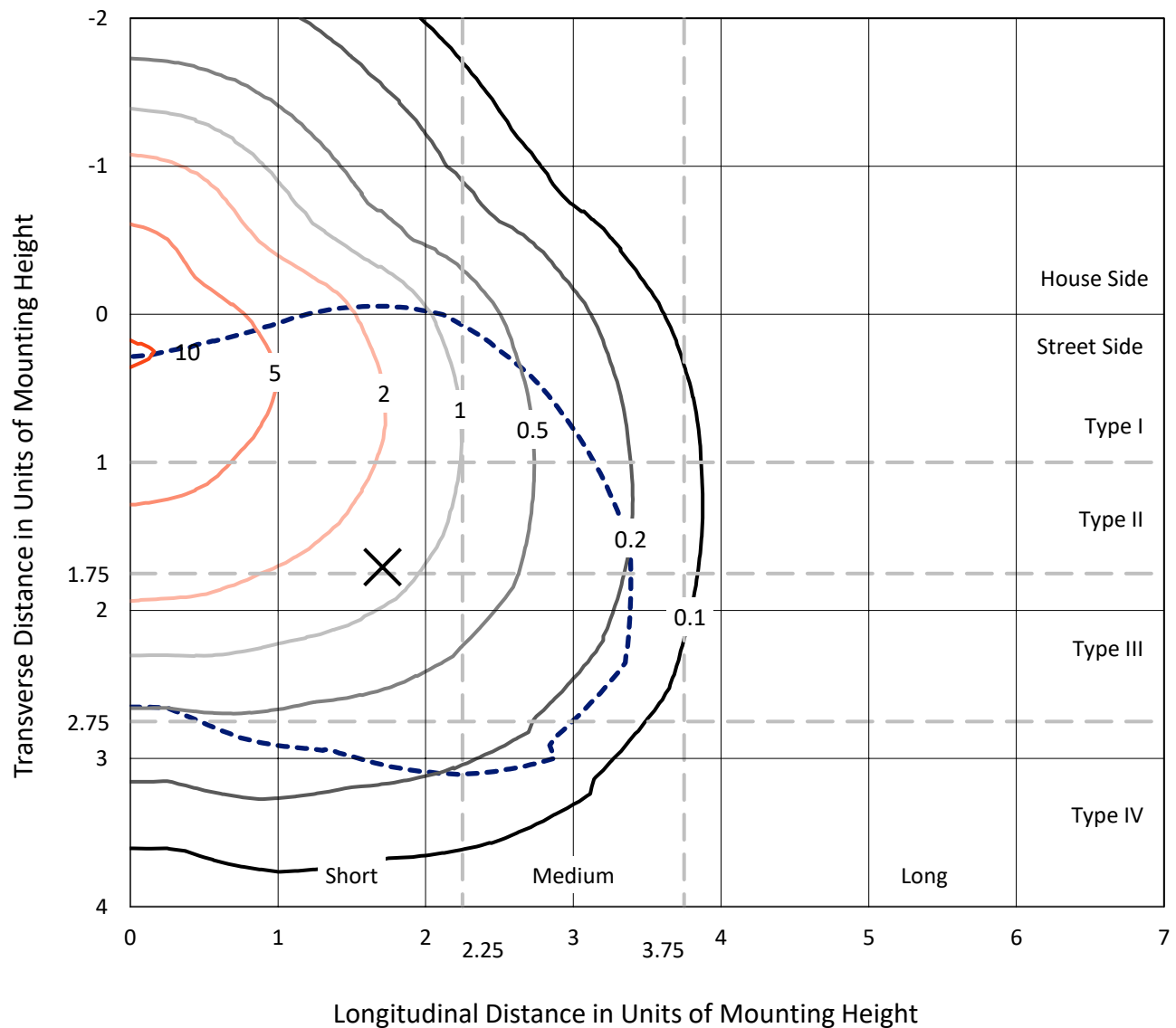


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Iso-Footcandle Lines of Horizontal Illumination

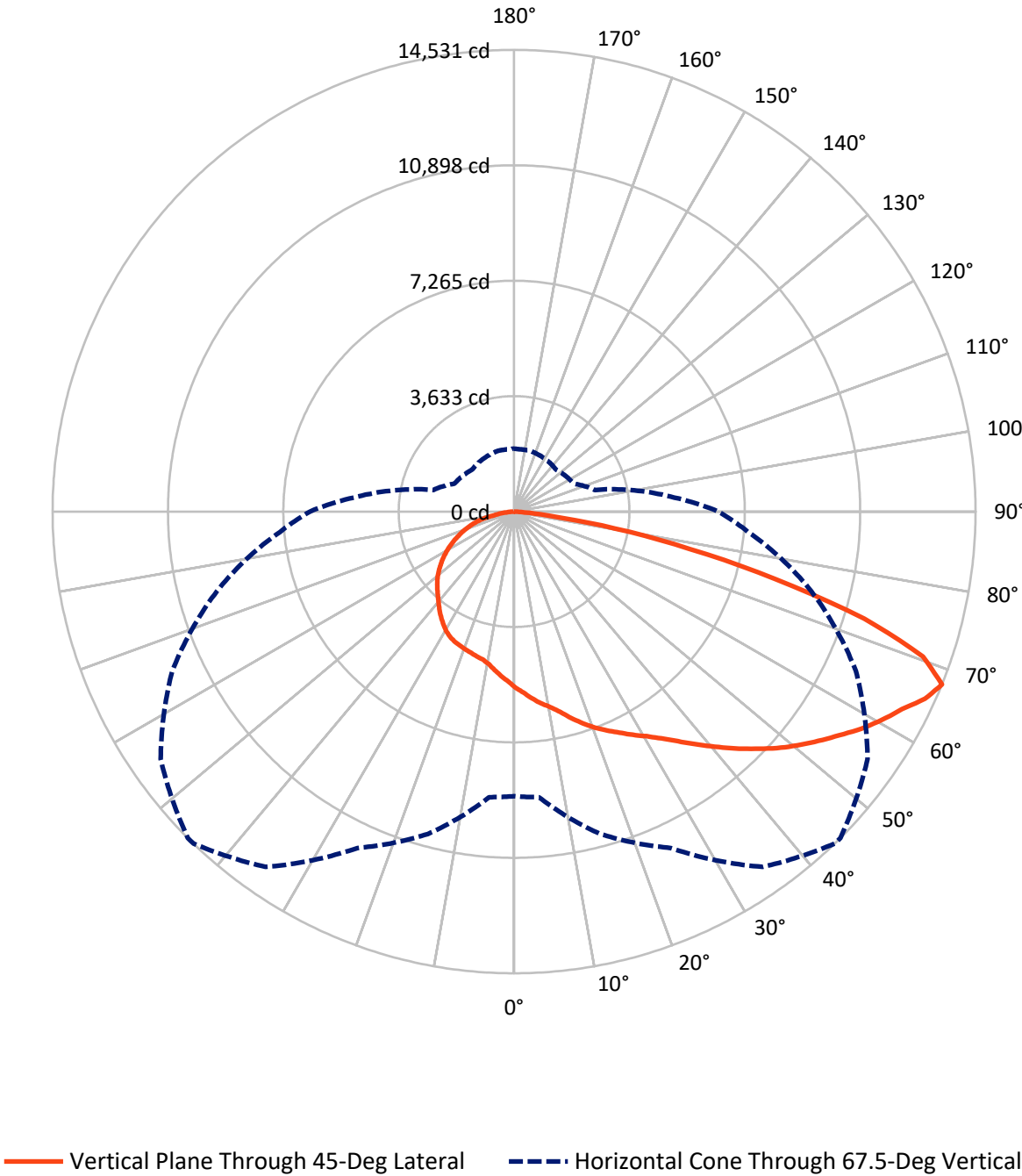
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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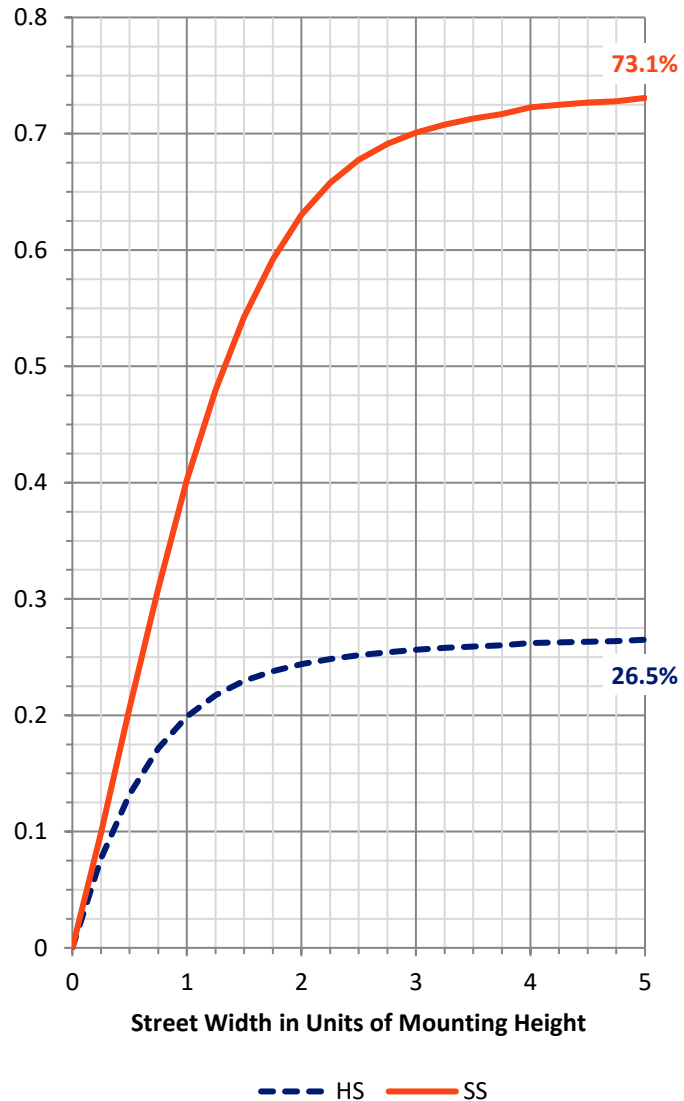
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8879.0	0.0	8879.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	24357.0	0.0	24357.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	33236.0	0.0	33236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.7	1.6
10°-20°	1639.5	4.9
20°-30°	2829.9	8.5
30°-40°	4173.2	12.6
40°-50°	5653.8	17.0
50°-60°	6910.3	20.8
60°-70°	7127.0	21.4
70°-80°	3903.7	11.7
80°-90°	467.9	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°	33236.0	100.0
0°-180°	33236.0	100.0

Coefficient of Utilization



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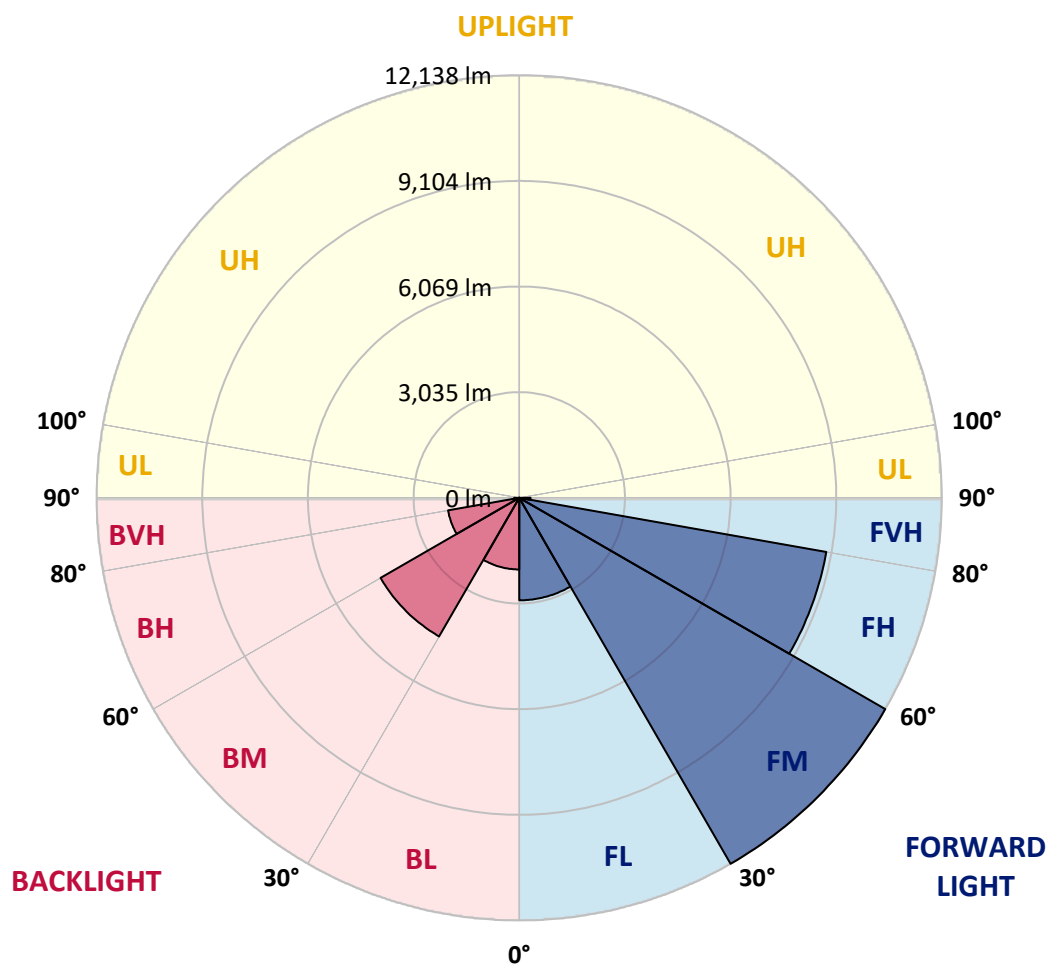
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2942.3	8.9			
FM	(30°-60°)	12138.1	36.5			
FH	(60°-80°)	8954.3	26.9			G4/12000
FVH	(80°-90°)	322.3	1.0			G3/500
BL	(0°-30°)	2057.9	6.2	B3/2500		
BM	(30°-60°)	4599.2	13.8	B3/5000		
BH	(60°-80°)	2076.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	145.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1
2.5°	5785.9	5780.8	5791.0	5755.6	5710.0	5705.0	5705.0	5674.6	5639.2	5568.4	5512.8
5°	6059.0	6048.9	6054.0	6003.4	5942.7	5912.3	5907.3	5841.5	5760.6	5649.3	5548.2
7.5°	6311.9	6301.8	6296.7	6241.1	6150.0	6099.5	6094.4	5998.3	5902.2	5730.3	5583.6
10°	6549.6	6539.5	6529.4	6453.5	6342.2	6266.4	6256.3	6134.9	6013.5	5801.1	5613.9
12.5°	6853.1	6832.8	6822.7	6731.7	6569.8	6488.9	6473.7	6311.9	6160.2	5902.2	5674.6
15°	7171.7	7156.5	7141.3	7055.4	6873.3	6767.1	6741.8	6539.5	6332.1	6033.7	5765.7
17.5°	7409.4	7394.2	7394.2	7318.4	7151.5	7030.1	7009.8	6767.1	6509.1	6155.1	5836.5
20°	7556.1	7540.9	7556.1	7510.5	7384.1	7283.0	7262.7	6994.7	6686.2	6266.4	5897.2
22.5°	7662.3	7647.1	7672.4	7652.2	7561.1	7500.4	7485.3	7222.3	6868.2	6382.7	5957.9
25°	7849.4	7849.4	7849.4	7814.0	7728.0	7707.8	7707.8	7480.2	7100.9	6534.4	6048.9
27.5°	8223.7	8203.4	8178.1	8077.0	7930.3	7925.3	7955.6	7743.2	7368.9	6731.7	6160.2
30°	8774.9	8764.8	8668.7	8456.3	8208.5	8183.2	8203.4	8026.4	7657.2	6939.0	6286.6
32.5°	9488.1	9452.7	9255.4	8936.8	8582.8	8466.4	8506.9	8319.8	7960.7	7151.5	6408.0
35°	9993.8	10003.9	9862.3	9574.0	9154.3	8845.8	8876.1	8648.5	8289.4	7389.2	6559.7
37.5°	10575.5	10610.9	10398.4	10181.0	9791.5	9265.5	9295.9	8987.4	8618.2	7687.6	6721.6
40°	11379.6	11308.8	10949.7	10691.8	10261.9	9705.5	9730.8	9366.7	8997.5	7970.8	6908.7
42.5°	12052.3	11925.8	11490.9	11162.1	10646.3	10170.8	10196.1	9776.3	9381.9	8284.4	7116.0
45°	13018.3	12669.3	12042.2	11880.3	11040.8	10626.0	10651.3	10211.3	9786.5	8618.2	7338.6
47.5°	13579.7	13023.3	12623.8	12537.8	11475.7	11096.4	11126.7	10671.5	10221.4	8997.5	7571.2
50°	13544.3	13185.2	13068.8	12856.4	11860.1	11536.4	11566.7	11147.0	10661.4	9371.7	7793.8
52.5°	13311.6	13377.4	13316.7	12962.6	12244.5	11961.2	11996.6	11617.3	11111.6	9720.7	8001.1
55°	13670.7	13716.2	13599.9	13134.6	12669.3	12386.1	12426.5	12113.0	11556.6	10029.2	8178.1
57.5°	14100.6	13938.8	13822.4	13438.1	13109.3	12846.3	12891.8	12618.7	11941.0	10277.1	8314.7
60°	14080.4	13741.5	13857.8	13458.3	13407.7	13271.2	13311.6	13033.4	12234.3	10459.1	8370.3
62.5°	13043.6	12861.5	13448.2	13311.6	13650.5	13650.5	13701.1	13286.3	12411.4	10535.0	8340.0
65°	11243.1	11253.2	12284.9	12851.4	13938.8	14171.4	14211.9	13443.1	12310.2	10312.5	8056.8
67.5°	8957.0	9022.8	10504.6	11683.1	13650.5	14525.4	14530.5	13584.7	11875.3	9685.3	7399.3
70°	6554.7	6605.2	8355.2	9786.5	12290.0	13741.5	13660.6	13185.2	10929.5	8592.9	6372.6
72.5°	4430.5	4476.0	6276.5	7515.6	10084.9	11703.3	11526.3	11652.7	9316.1	7060.4	5123.4
75°	2978.9	3034.6	4465.9	5376.2	7419.5	8886.2	8491.7	8825.5	7207.1	5345.9	3737.6
77.5°	1876.4	1911.8	2837.3	3525.2	5067.7	6048.9	5654.4	5659.5	4152.3	2877.8	2007.9
80°	1193.6	1203.7	1719.6	2033.2	2933.4	3636.4	3216.6	2614.8	1871.3	1527.4	1198.7
82.5°	692.9	677.7	1026.7	1148.1	1395.9	1380.7	1143.0	1082.3	819.3	763.7	612.0
85°	278.2	257.9	450.1	419.8	424.8	450.1	333.8	333.8	268.1	207.4	151.7
87.5°	55.6	55.6	60.7	55.6	55.6	60.7	45.5	45.5	40.5	40.5	40.5
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°	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1	5543.1
2.5°	5502.7	5492.6	5467.3	5401.5	5366.1	5345.9	5315.5	5305.4	5300.4	5305.4	5320.6
5°	5517.8	5482.4	5411.6	5305.4	5234.6	5189.1	5138.5	5118.3	5103.1	5103.1	5118.3
7.5°	5528.0	5472.3	5350.9	5194.2	5093.0	5022.2	4961.5	4936.2	4931.2	4946.3	4951.4
10°	5533.0	5452.1	5280.1	5082.9	4951.4	4860.4	4799.7	4784.5	4799.7	4830.0	4835.1
12.5°	5568.4	5457.2	5239.7	5007.0	4850.2	4759.2	4713.7	4713.7	4754.1	4809.8	4814.8
15°	5629.1	5492.6	5219.4	4946.3	4784.5	4703.6	4688.4	4713.7	4774.4	4860.4	4870.5
17.5°	5674.6	5512.8	5173.9	4865.4	4698.5	4647.9	4673.2	4733.9	4819.9	4936.2	4946.3
20°	5705.0	5512.8	5108.2	4769.3	4612.5	4602.4	4673.2	4769.3	4860.4	4996.9	5012.1
22.5°	5735.3	5502.7	5032.3	4653.0	4516.4	4546.8	4678.3	4799.7	4890.7	5037.4	5062.7
25°	5791.0	5517.8	4956.5	4536.7	4415.3	4501.3	4673.2	4819.9	4916.0	5067.7	5108.2
27.5°	5866.8	5553.2	4900.8	4430.5	4314.1	4430.5	4637.8	4814.8	4916.0	5062.7	5108.2
30°	5947.7	5593.7	4835.1	4314.1	4197.8	4329.3	4562.0	4759.2	4875.5	5012.1	5067.7
32.5°	6033.7	5639.2	4779.4	4187.7	4056.2	4192.8	4450.7	4673.2	4799.7	4926.1	4986.8
35°	6150.0	5720.2	4749.1	4086.5	3929.8	4051.1	4309.1	4562.0	4698.5	4814.8	4885.6
37.5°	6291.7	5821.3	4733.9	3985.4	3793.2	3894.4	4157.4	4425.4	4572.1	4668.2	4733.9
40°	6453.5	5947.7	4728.9	3889.3	3656.6	3732.5	4000.6	4268.6	4410.2	4486.1	4541.7
42.5°	6635.6	6089.4	4718.7	3793.2	3520.1	3580.8	3848.8	4111.8	4233.2	4299.0	4349.5
45°	6827.8	6231.0	4698.5	3676.9	3373.4	3444.2	3692.1	3924.7	4051.1	4106.8	4162.4
47.5°	7020.0	6372.6	4658.1	3545.4	3241.9	3307.7	3525.2	3727.5	3828.6	3879.2	3934.8
50°	7207.1	6499.0	4562.0	3393.7	3105.4	3166.1	3333.0	3469.5	3545.4	3585.8	3641.5
52.5°	7374.0	6585.0	4425.4	3216.6	2968.8	2999.2	3110.4	3226.8	3287.4	3292.5	3343.1
55°	7515.6	6630.5	4228.2	3034.6	2822.1	2827.2	2887.9	2978.9	3004.2	2984.0	3019.4
57.5°	7596.5	6605.2	4010.7	2847.4	2670.4	2650.2	2695.7	2741.2	2746.3	2695.7	2731.1
60°	7616.8	6488.9	3727.5	2660.3	2518.7	2463.1	2478.2	2468.1	2458.0	2437.8	2468.1
62.5°	7515.6	6241.1	3413.9	2478.2	2356.8	2270.9	2265.8	2260.7	2275.9	2281.0	2286.0
65°	7146.4	5775.8	3039.6	2291.1	2184.9	2068.6	2063.5	2124.2	2144.4	2114.1	2124.2
67.5°	6433.3	5062.7	2630.0	2073.6	1967.4	1866.3	1906.7	1942.1	1977.5	1967.4	1977.5
70°	5421.8	4157.4	2255.7	1830.9	1729.7	1674.1	1719.6	1749.9	1755.0	1744.9	1755.0
72.5°	4263.6	3247.0	1906.7	1583.0	1492.0	1466.7	1522.3	1547.6	1593.1	1613.4	1618.4
75°	3080.1	2397.3	1562.8	1315.0	1239.1	1239.1	1289.7	1335.2	1375.7	1350.4	1335.2
77.5°	1719.6	1431.3	1122.8	905.3	920.5	991.3	1011.5	1062.1	1102.6	1097.5	1087.4
80°	1041.9	895.2	758.6	586.7	581.6	637.3	768.8	854.7	875.0	829.4	824.4
82.5°	541.2	470.4	404.6	328.7	364.1	424.8	445.1	536.1	591.7	571.5	596.8
85°	136.6	131.5	146.7	151.7	187.1	207.4	227.6	268.1	177.0	86.0	86.0
87.5°	40.5	40.5	50.6	50.6	65.7	80.9	75.9	75.9	40.5	5.1	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)