

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: P835912

Luminaire Tested: **ARCH3-110-740-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12284 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 111.9
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



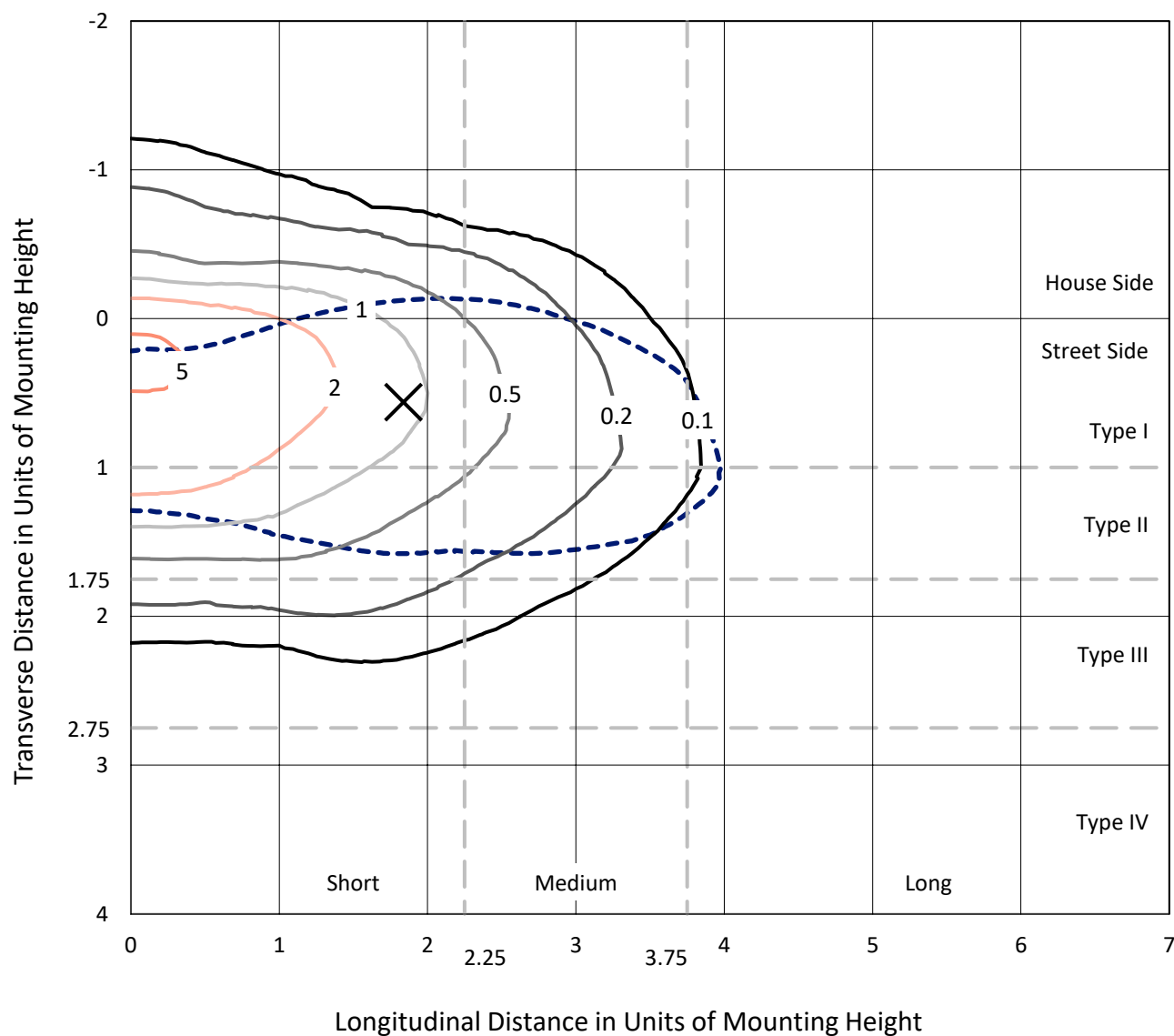
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

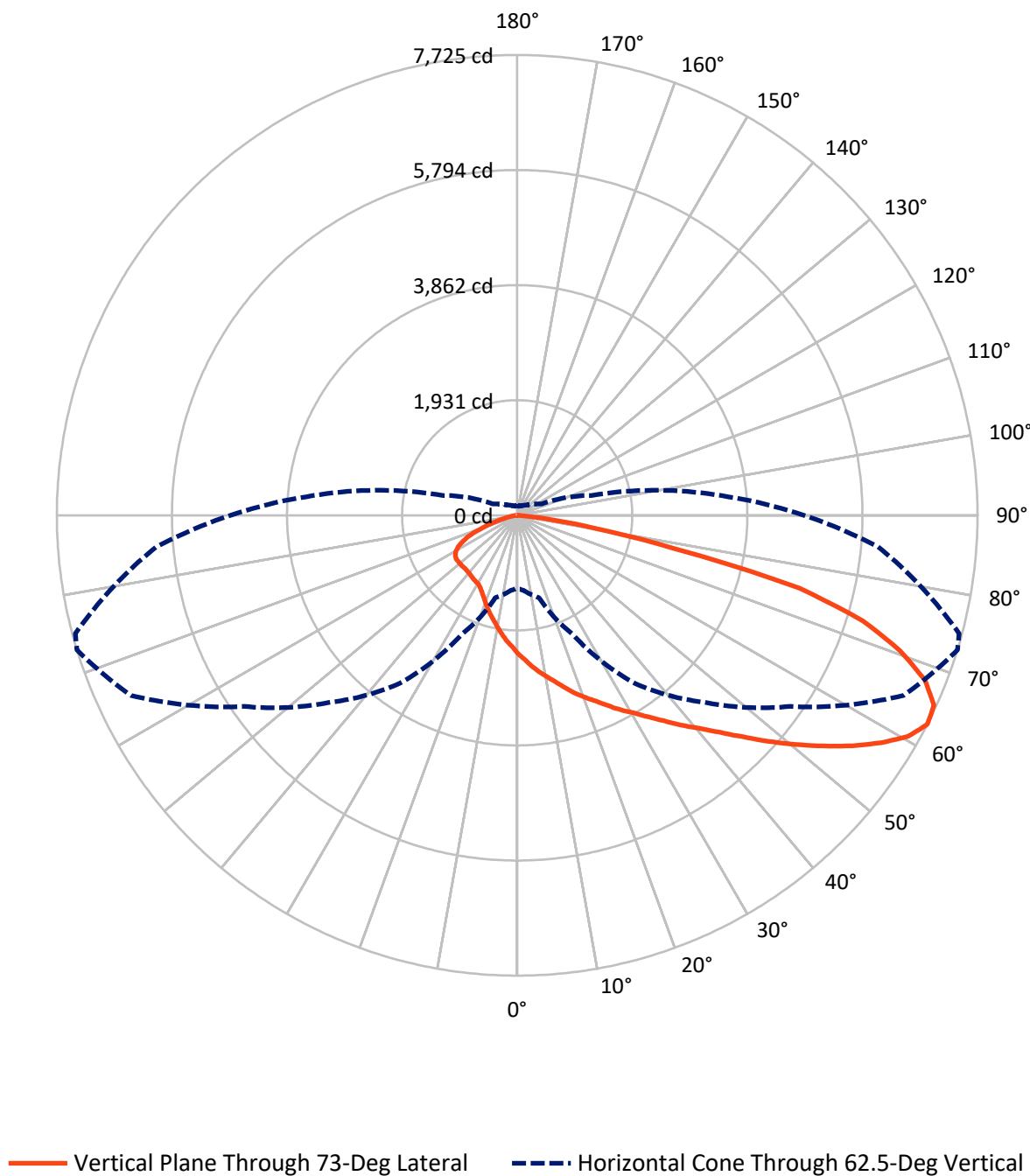


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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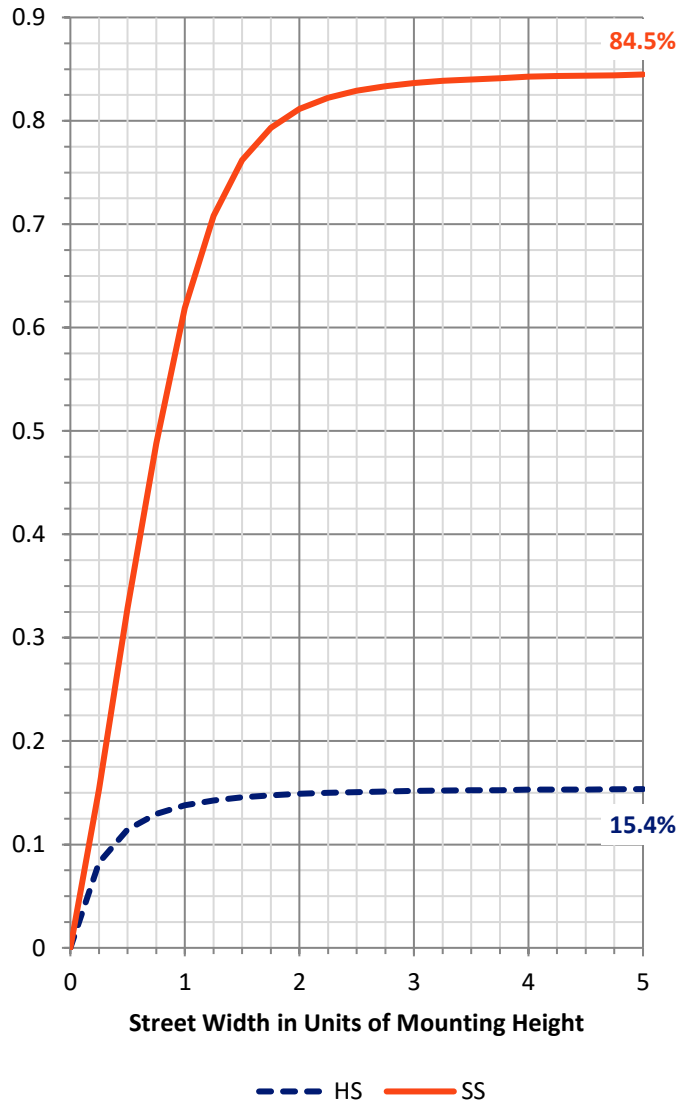
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1904.2	0.0	1904.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	10379.8	0.0	10379.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	12284.0	0.0	12284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.7	1.8
10°-20°	678.1	5.5
20°-30°	1128.6	9.2
30°-40°	1703.0	13.9
40°-50°	2380.3	19.4
50°-60°	2629.2	21.4
60°-70°	2290.4	18.6
70°-80°	1157.0	9.4
80°-90°	92.9	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°	12284.0	100.0
0°-180°	12284.0	100.0

Coefficient of Utilization



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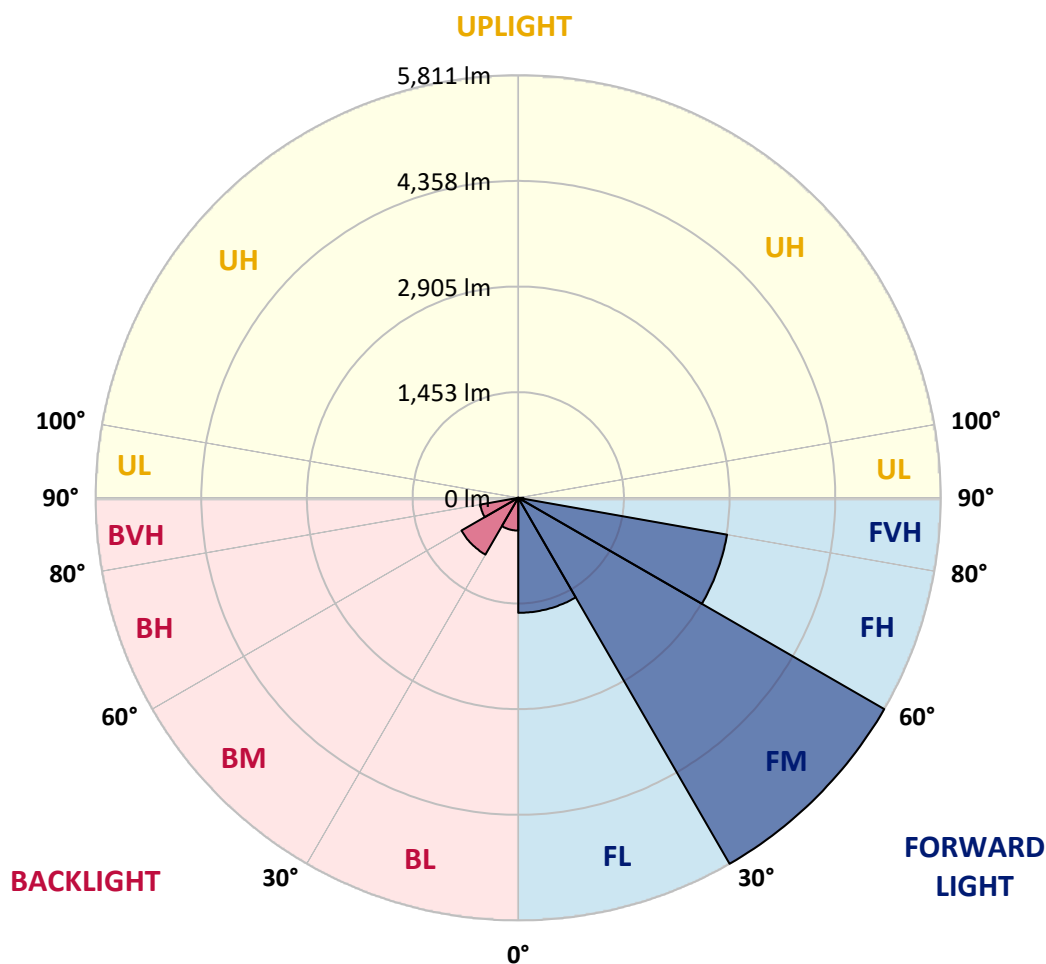
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1581.3	12.9			
FM	(30°-60°)	5810.8	47.3			
FH	(60°-80°)	2915.8	23.7			G2/5000
FVH	(80°-90°)	71.9	0.6			G1/100
BL	(0°-30°)	450.1	3.7	B1/500		
BM	(30°-60°)	901.6	7.3	B1/1000		
BH	(60°-80°)	531.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	21.0	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0
2.5°	2647.2	2676.6	2660.6	2671.3	2617.8	2583.0	2542.8	2465.2	2422.4	2417.0	2366.2
5°	3035.3	3067.4	3040.7	3032.6	2939.0	2858.7	2767.6	2631.1	2540.1	2524.1	2411.7
7.5°	3423.4	3452.9	3420.7	3396.7	3270.9	3129.0	2995.2	2794.4	2652.6	2625.8	2449.1
10°	3696.4	3723.2	3699.1	3675.0	3543.9	3399.3	3209.3	2947.0	2754.3	2711.4	2473.2
12.5°	3902.5	3918.6	3907.9	3886.5	3763.4	3608.1	3426.1	3118.3	2869.4	2815.8	2510.7
15°	4071.2	4097.9	4084.6	4068.5	3950.7	3795.5	3621.5	3297.6	3003.2	2936.3	2566.9
17.5°	4183.6	4202.3	4205.0	4205.0	4100.6	3948.0	3779.4	3460.9	3137.0	3051.4	2620.4
20°	4234.4	4255.9	4269.2	4290.7	4205.0	4073.8	3902.5	3600.1	3262.8	3166.5	2671.3
22.5°	4258.5	4277.3	4312.1	4360.2	4290.7	4180.9	4023.0	3728.6	3388.6	3286.9	2730.2
25°	4277.3	4301.4	4352.2	4443.2	4395.0	4301.4	4164.9	3875.8	3538.5	3434.1	2815.8
27.5°	4328.1	4357.6	4405.8	4515.5	4456.6	4411.1	4314.7	4033.7	3696.4	3589.4	2920.2
30°	4504.8	4528.9	4526.2	4595.8	4523.5	4510.1	4443.2	4186.3	3849.0	3741.9	3043.3
32.5°	4826.0	4850.1	4791.2	4764.4	4606.5	4609.2	4582.4	4349.5	4031.0	3921.3	3185.2
35°	5171.3	5198.0	5120.4	5074.9	4809.9	4732.3	4745.7	4553.0	4234.4	4124.7	3361.9
37.5°	5479.1	5511.2	5444.3	5377.4	5109.7	4930.4	4927.7	4780.5	4467.3	4354.9	3557.3
40°	5647.7	5685.2	5725.3	5687.9	5406.8	5208.7	5123.1	5013.3	4697.5	4582.4	3768.7
42.5°	5728.0	5832.4	5904.7	5880.6	5650.4	5449.6	5347.9	5256.9	4978.6	4866.1	4020.3
45°	5503.2	5505.9	5658.4	5789.6	5746.7	5612.9	5594.2	5529.9	5299.8	5192.7	4304.0
47.5°	5222.1	5200.7	5307.8	5540.6	5661.1	5695.9	5805.6	5832.4	5666.4	5559.4	4593.1
50°	4547.6	4561.0	4909.0	5243.5	5479.1	5703.9	5955.5	6142.9	6043.9	5942.1	4898.3
52.5°	3699.1	3731.2	4130.1	4866.1	5238.2	5623.6	6043.9	6453.4	6429.3	6332.9	5203.4
55°	2965.7	3016.6	3439.5	4237.1	4930.4	5444.3	6081.3	6737.1	6828.1	6739.8	5503.2
57.5°	2267.1	2320.6	2676.6	3495.7	4536.9	5152.5	6054.6	6986.0	7200.2	7144.0	5778.9
60°	1707.7	1761.2	1988.7	2834.6	4044.4	4826.0	5920.7	7149.3	7534.7	7475.9	5979.6
62.5°	1223.2	1266.1	1434.7	2205.6	3444.8	4437.9	5591.5	7152.0	7724.8	7676.6	6076.0
65°	880.6	880.6	1017.1	1573.9	2882.7	3972.1	5093.6	6822.8	7684.6	7671.3	6009.1
67.5°	634.4	639.7	749.5	1100.1	2299.2	3407.4	4448.6	6236.6	7374.1	7441.1	5768.2
70°	449.7	463.1	513.9	768.2	1737.1	2690.0	3758.0	5468.4	6814.7	6932.5	5302.4
72.5°	348.0	356.0	390.8	535.3	1268.7	1999.5	2995.2	4611.9	6067.9	6201.8	4668.1
75°	267.7	275.7	302.5	393.5	910.1	1402.6	2127.9	3578.7	4892.9	5131.1	3750.0
77.5°	195.4	206.1	224.8	286.4	530.0	891.3	1290.1	2012.8	2700.7	2813.2	1964.7
80°	91.0	104.4	131.2	184.7	286.4	420.2	457.7	776.2	1298.2	1357.1	1065.3
82.5°	50.9	64.2	74.9	112.4	144.5	149.9	155.2	195.4	489.8	540.7	447.0
85°	24.1	32.1	34.8	48.2	48.2	42.8	50.9	37.5	80.3	96.4	93.7
87.5°	0.0	2.7	5.4	13.4	10.7	8.0	8.0	8.0	8.0	10.7	8.0
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°	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0	2326.0
2.5°	2342.1	2307.3	2227.0	2157.4	2111.9	2071.7	2018.2	1994.1	1951.3	1959.3	1935.2
5°	2355.4	2291.2	2149.3	2018.2	1921.8	1836.2	1742.5	1689.0	1630.1	1624.7	1606.0
7.5°	2363.5	2264.4	2061.0	1876.3	1729.1	1598.0	1472.2	1402.6	1330.3	1314.2	1298.2
10°	2355.4	2224.3	1970.0	1729.1	1533.7	1370.4	1228.6	1140.2	1065.3	1046.6	1030.5
12.5°	2363.5	2202.9	1884.4	1592.6	1359.7	1175.0	1014.4	923.4	853.8	835.1	824.4
15°	2382.2	2189.5	1812.1	1469.5	1204.5	998.4	840.5	762.8	706.6	687.9	682.5
17.5°	2398.3	2176.1	1734.5	1349.0	1049.2	843.1	706.6	642.4	594.2	575.5	570.1
20°	2419.7	2157.4	1656.8	1233.9	912.7	720.0	599.6	543.4	505.9	492.5	489.8
22.5°	2438.4	2144.0	1584.6	1118.8	786.9	621.0	519.3	473.8	447.0	433.6	433.6
25°	2486.6	2149.3	1523.0	1011.8	693.3	543.4	457.7	422.9	401.5	393.5	393.5
27.5°	2542.8	2170.8	1474.8	920.8	613.0	484.5	414.9	385.4	374.7	364.0	366.7
30°	2623.1	2213.6	1442.7	845.8	554.1	439.0	380.1	358.7	348.0	345.3	345.3
32.5°	2724.8	2283.2	1440.0	797.6	511.2	404.2	356.0	337.3	331.9	329.2	329.2
35°	2845.3	2344.7	1424.0	776.2	484.5	380.1	337.3	323.9	321.2	321.2	321.2
37.5°	2989.8	2446.5	1413.3	746.8	471.1	366.7	323.9	313.2	313.2	313.2	313.2
40°	3139.7	2529.4	1397.2	720.0	465.7	358.7	315.8	302.5	302.5	302.5	302.5
42.5°	3319.0	2649.9	1391.9	706.6	457.7	353.3	305.1	289.1	291.8	291.8	294.4
45°	3535.8	2786.4	1389.2	693.3	455.0	348.0	294.4	275.7	278.4	275.7	275.7
47.5°	3755.3	2944.3	1397.2	685.2	452.4	342.6	286.4	262.3	262.3	259.6	259.6
50°	3985.5	3088.8	1402.6	677.2	447.0	331.9	273.0	251.6	246.3	240.9	243.6
52.5°	4202.3	3222.7	1405.2	663.8	430.9	315.8	262.3	238.2	230.2	222.2	224.8
55°	4419.1	3351.2	1410.6	647.7	409.5	299.8	248.9	224.8	214.1	203.4	203.4
57.5°	4614.5	3463.6	1397.2	607.6	385.4	283.7	235.5	208.8	192.7	182.0	182.0
60°	4748.4	3543.9	1357.1	548.7	353.3	265.0	222.2	192.7	174.0	166.0	166.0
62.5°	4812.6	3557.3	1284.8	452.4	313.2	246.3	206.1	176.7	160.6	155.2	155.2
65°	4751.0	3498.4	1172.4	339.9	270.3	224.8	190.0	163.3	147.2	133.8	133.8
67.5°	4536.9	3332.4	1017.1	257.0	230.2	203.4	174.0	149.9	131.2	120.4	120.4
70°	4106.0	2987.1	786.9	206.1	195.4	176.7	157.9	133.8	117.8	104.4	104.4
72.5°	3541.2	2532.1	554.1	166.0	166.0	149.9	133.8	117.8	101.7	91.0	91.0
75°	2716.8	1873.6	372.1	133.8	136.5	125.8	109.7	96.4	85.7	77.6	77.6
77.5°	1482.9	926.1	227.5	99.0	101.7	96.4	85.7	77.6	72.3	64.2	64.2
80°	720.0	406.8	131.2	69.6	72.3	69.6	64.2	56.2	56.2	50.9	50.9
82.5°	302.5	152.6	69.6	48.2	48.2	42.8	40.1	40.1	40.1	37.5	37.5
85°	74.9	29.4	29.4	26.8	26.8	26.8	24.1	24.1	24.1	18.7	21.4
87.5°	10.7	10.7	10.7	10.7	10.7	10.7	8.0	2.7	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)