

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: P841700

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

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
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-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23520 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

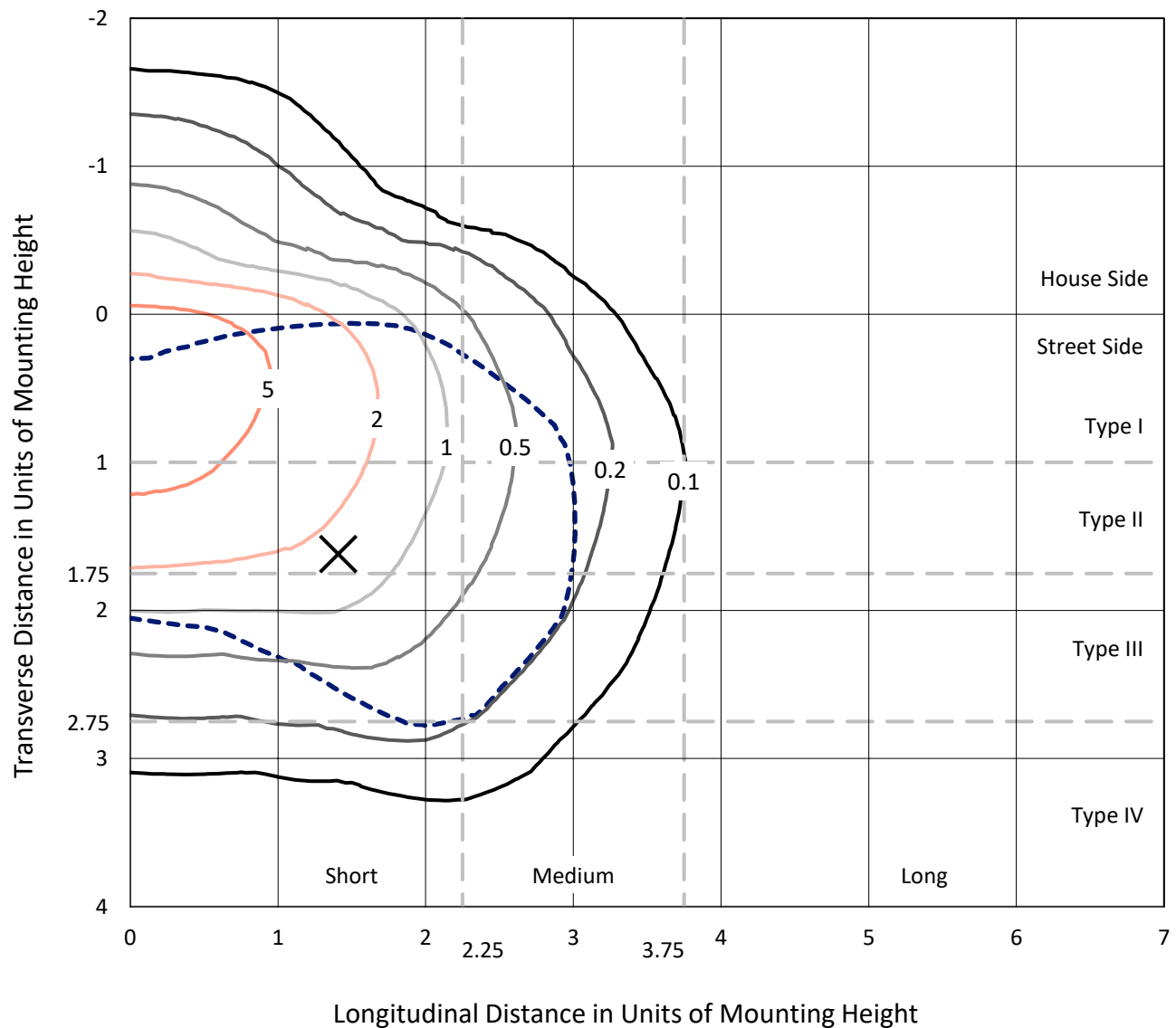
Input Watts (W): 213.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

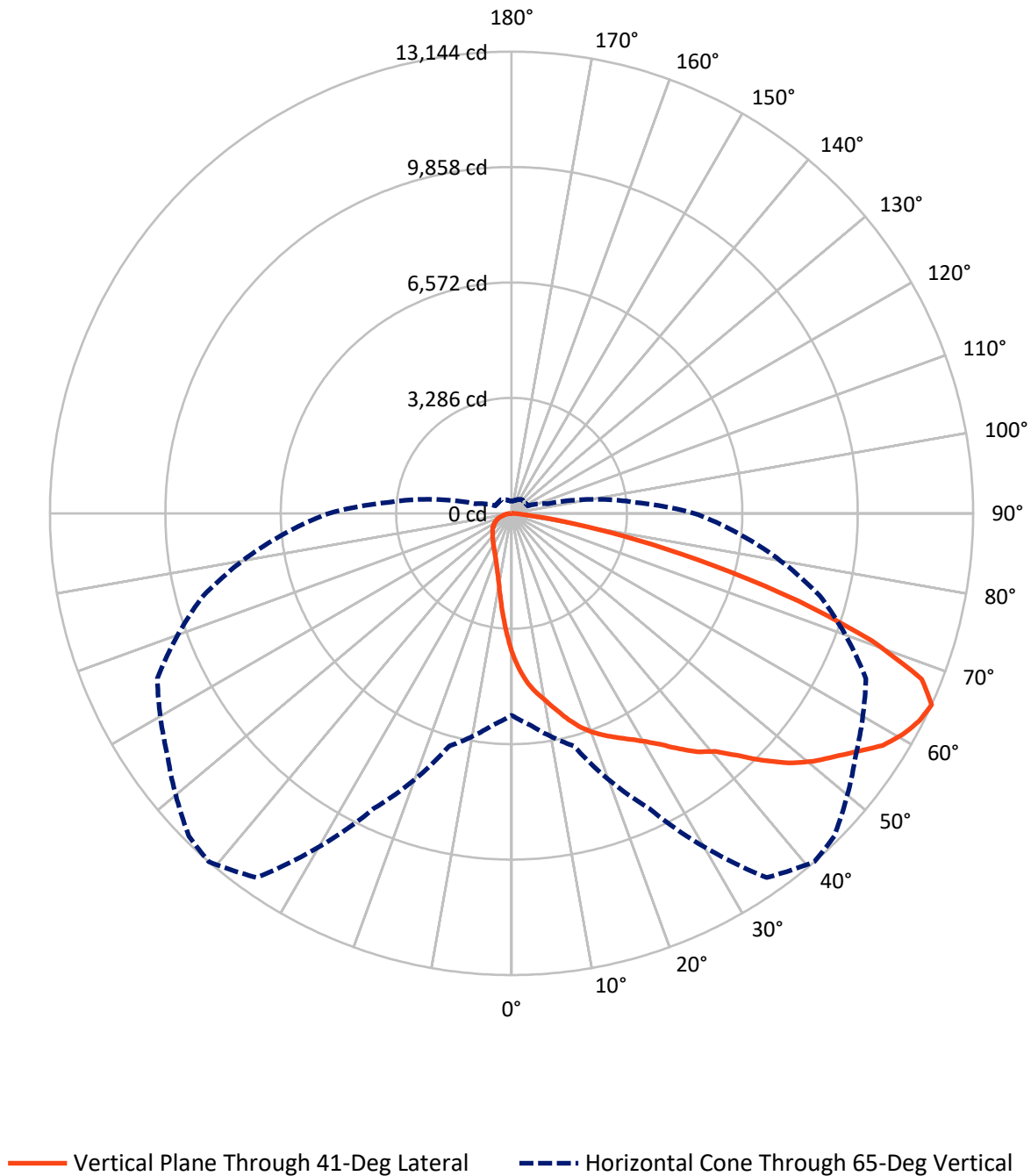
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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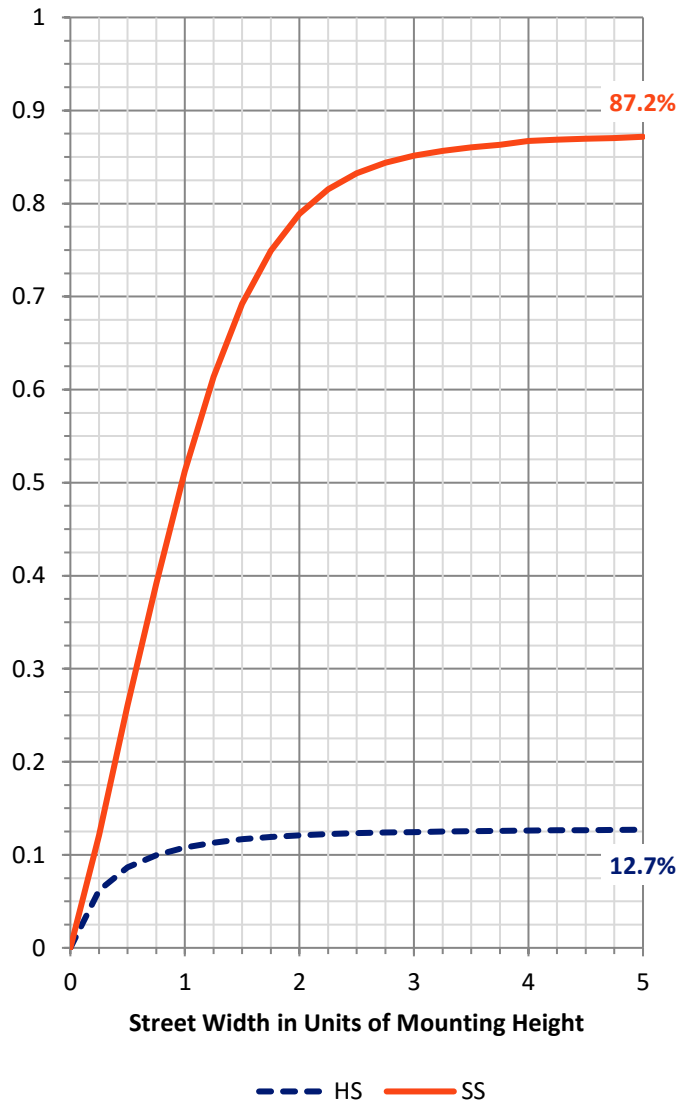
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3019.6	0.0	3019.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	20500.4	0.0	20500.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	23520.0	0.0	23520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.4	1.6
10°-20°	1119.7	4.8
20°-30°	1926.3	8.2
30°-40°	2921.5	12.4
40°-50°	4280.1	18.2
50°-60°	5404.8	23.0
60°-70°	5068.0	21.5
70°-80°	2258.8	9.6
80°-90°	167.3	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°	23520.0	100.0
0°-180°	23520.0	100.0

Coefficient of Utilization



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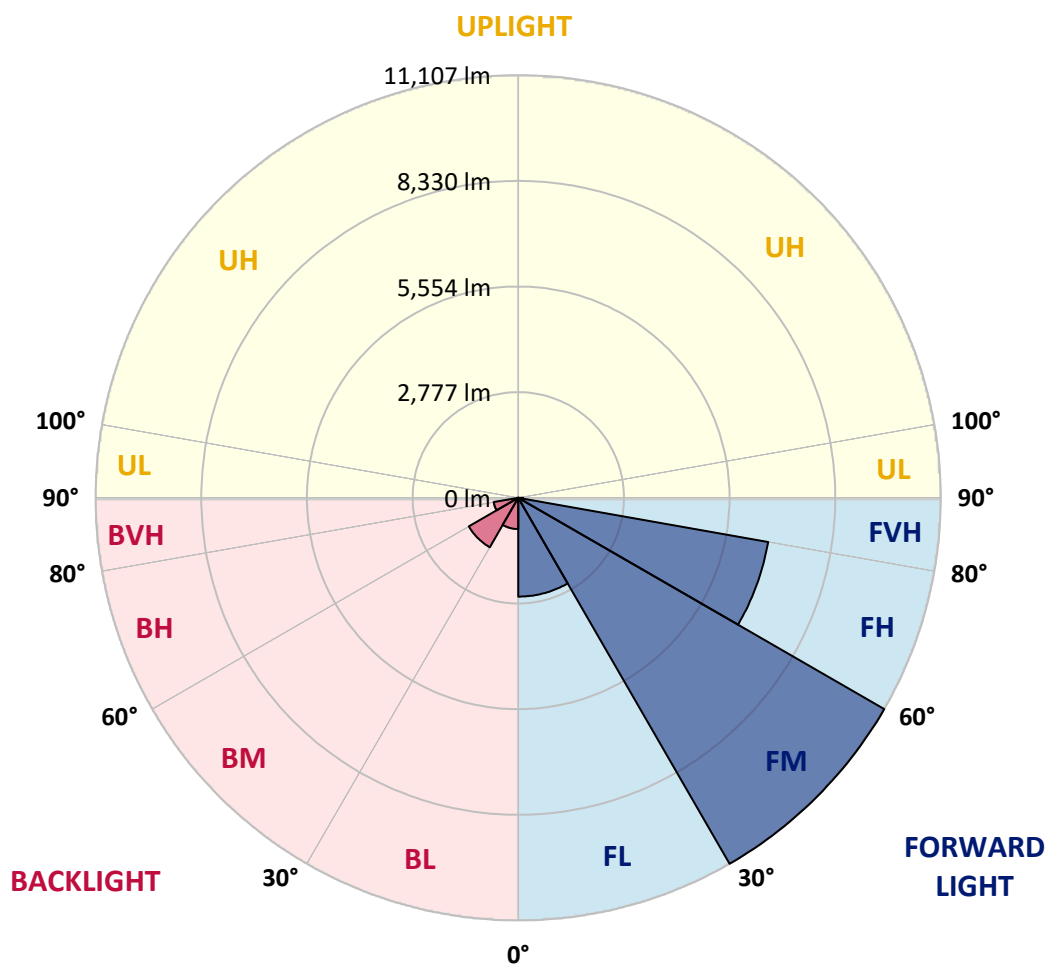
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2597.5	11.0			
FM	(30°-60°)	11107.1	47.2			
FH	(60°-80°)	6670.9	28.4			G3/7500
FVH	(80°-90°)	125.0	0.5			G2/225
BL	(0°-30°)	821.9	3.5	B2/1000		
BM	(30°-60°)	1499.4	6.4	B2/2500		
BH	(60°-80°)	656.0	2.8	B2/1000		G2/1000
BVH	(80°-90°)	42.4	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7
2.5°	4622.7	4607.8	4597.9	4543.4	4543.4	4469.0	4473.9	4404.5	4320.2	4186.2	4042.4
5°	5059.2	5039.4	5014.6	4960.0	4940.2	4865.8	4855.8	4756.6	4612.8	4379.7	4121.8
7.5°	5441.1	5421.3	5386.6	5307.2	5252.6	5163.4	5138.6	5009.6	4850.9	4563.2	4201.1
10°	5788.3	5773.4	5728.8	5629.6	5555.2	5446.1	5401.4	5227.8	5029.4	4712.0	4265.6
12.5°	6140.5	6120.6	6061.1	5976.8	5887.5	5758.6	5704.0	5480.8	5227.8	4875.7	4359.8
15°	6467.8	6438.1	6393.4	6304.2	6224.8	6100.8	6041.3	5778.4	5470.9	5059.2	4483.8
17.5°	6681.1	6656.3	6616.6	6567.0	6502.6	6408.3	6348.8	6090.9	5713.9	5237.8	4612.8
20°	6810.1	6800.2	6785.3	6755.5	6725.8	6661.3	6616.6	6373.6	5976.8	5411.4	4736.8
22.5°	6909.3	6899.4	6894.4	6894.4	6899.4	6874.6	6844.8	6636.5	6229.8	5594.9	4850.9
25°	7063.0	7058.1	7048.2	7038.2	7073.0	7077.9	7068.0	6924.2	6547.2	5837.9	4994.7
27.5°	7276.3	7261.4	7241.6	7231.7	7266.4	7291.2	7311.0	7211.8	6884.5	6085.9	5158.4
30°	7603.7	7559.0	7509.4	7474.7	7499.5	7539.2	7583.8	7524.3	7231.7	6393.4	5327.0
32.5°	7990.6	7936.0	7821.9	7757.4	7821.9	7851.7	7886.4	7856.6	7593.8	6725.8	5495.7
35°	8461.8	8397.3	8278.3	8184.0	8298.1	8233.6	8218.7	8189.0	7936.0	7053.1	5684.2
37.5°	9245.5	9151.2	8962.7	8754.4	8754.4	8615.5	8561.0	8471.7	8243.5	7345.8	5867.7
40°	10153.1	10029.1	9786.1	9478.6	9195.9	8908.2	8873.5	8809.0	8605.6	7683.0	6076.0
42.5°	11150.1	10912.0	10574.7	10202.7	9746.4	9419.1	9339.7	9156.2	8957.8	8025.3	6284.3
45°	12256.2	11760.2	11269.1	11080.7	10326.7	10029.1	9880.3	9548.0	9324.8	8382.4	6502.6
47.5°	12434.7	12047.9	11720.5	11690.7	10867.4	10619.4	10450.7	9974.6	9721.6	8764.3	6730.7
50°	12335.5	12102.4	12137.1	12018.1	11264.2	11100.5	10971.5	10430.9	10113.5	9131.4	6939.0
52.5°	11918.9	12047.9	12246.3	12028.0	11641.1	11507.2	11442.7	10921.9	10480.5	9468.7	7127.5
55°	11422.9	11512.2	11938.7	12206.6	12077.6	11958.6	11899.1	11492.3	10842.6	9751.4	7301.1
57.5°	10698.7	10659.1	11130.3	12176.8	12533.9	12464.5	12400.0	12052.8	11179.9	9954.7	7410.2
60°	9612.5	9528.2	10123.4	11581.6	12682.7	12791.9	12762.1	12424.8	11437.8	9949.8	7365.6
62.5°	7732.6	7941.0	8764.3	10609.5	12747.2	13025.0	12970.4	12454.6	11522.1	9662.1	7082.9
65°	5748.6	6046.2	6854.7	9270.3	12657.9	13144.0	12995.2	11968.5	11130.3	9091.7	6462.9
67.5°	4141.6	4404.5	4994.7	7628.5	11799.9	12598.4	12424.8	11174.9	10227.5	8283.2	5604.8
70°	2832.2	3020.6	3422.4	5555.2	10073.8	10892.2	10783.1	9989.5	8804.0	7321.0	4553.3
72.5°	1998.9	2078.2	2336.2	3665.4	7653.3	8546.1	8417.1	8218.7	7073.0	6085.9	3541.4
75°	1497.9	1547.5	1686.4	2370.9	5163.4	5922.2	5803.2	5917.3	5282.4	4607.8	2579.2
77.5°	565.4	615.0	957.3	1512.8	3055.4	3635.7	3516.6	3586.1	2936.3	2326.2	1284.6
80°	153.8	163.7	317.4	719.2	1388.8	1810.4	1646.7	1413.6	1091.2	1071.4	679.5
82.5°	64.5	74.4	143.8	386.9	496.0	496.0	416.6	515.8	416.6	501.0	327.4
85°	24.8	29.8	34.7	99.2	64.5	69.4	74.4	99.2	84.3	104.2	74.4
87.5°	0.0	0.0	0.0	5.0	5.0	9.9	5.0	9.9	14.9	14.9	14.9
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°	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7	4007.7
2.5°	3982.9	3928.3	3849.0	3720.0	3586.1	3511.7	3417.4	3402.6	3303.4	3293.4	3253.8
5°	4007.7	3893.6	3690.2	3442.2	3199.2	3010.7	2871.8	2797.4	2653.6	2653.6	2613.9
7.5°	4027.5	3849.0	3521.6	3154.6	2822.2	2569.3	2380.8	2301.4	2172.5	2162.6	2132.8
10°	4032.5	3794.4	3338.1	2861.9	2455.2	2197.3	2013.8	1924.5	1810.4	1800.5	1780.6
12.5°	4072.2	3764.6	3174.4	2609.0	2192.3	1914.6	1736.0	1661.6	1572.3	1562.4	1542.6
15°	4136.6	3764.6	3035.5	2395.7	1959.2	1701.3	1547.5	1478.1	1413.6	1403.7	1393.8
17.5°	4201.1	3754.7	2896.6	2197.3	1765.8	1532.6	1398.7	1344.2	1294.6	1289.6	1279.7
20°	4260.6	3749.8	2757.8	2028.6	1617.0	1393.8	1289.6	1240.0	1200.3	1200.3	1195.4
22.5°	4320.2	3739.8	2623.8	1869.9	1488.0	1289.6	1200.3	1145.8	1116.0	1116.0	1111.0
25°	4409.4	3739.8	2499.8	1736.0	1383.8	1210.2	1121.0	1081.3	1056.5	1051.5	1051.5
27.5°	4513.6	3769.6	2390.7	1617.0	1294.6	1130.9	1061.4	1021.8	992.0	982.1	987.0
30°	4627.7	3794.4	2291.5	1512.8	1210.2	1071.4	997.0	957.3	927.5	917.6	922.6
32.5°	4741.8	3824.2	2202.2	1418.6	1125.9	1016.8	942.4	897.8	868.0	863.0	863.0
35°	4865.8	3853.9	2113.0	1339.2	1056.5	962.2	892.8	843.2	823.4	813.4	818.4
37.5°	4989.8	3903.5	2028.6	1264.8	1006.9	912.6	848.2	798.6	783.7	778.7	778.7
40°	5138.6	3977.9	1993.9	1215.2	962.2	868.0	813.4	763.8	749.0	749.0	749.0
42.5°	5262.6	4037.4	1964.2	1160.6	927.5	828.3	778.7	739.0	729.1	724.2	729.1
45°	5386.6	4092.0	1924.5	1111.0	882.9	788.6	749.0	709.3	699.4	699.4	699.4
47.5°	5510.6	4121.8	1869.9	1061.4	843.2	753.9	719.2	684.5	674.6	674.6	674.6
50°	5609.8	4146.6	1790.6	1006.9	798.6	724.2	689.4	654.7	644.8	644.8	644.8
52.5°	5709.0	4151.5	1706.2	942.4	753.9	689.4	659.7	625.0	615.0	610.1	610.1
55°	5798.2	4146.6	1607.0	868.0	704.3	649.8	625.0	595.2	575.4	555.5	565.4
57.5°	5862.7	4141.6	1493.0	793.6	654.7	610.1	600.2	560.5	520.8	471.2	481.1
60°	5837.9	4087.0	1369.0	699.4	600.2	570.4	570.4	515.8	446.4	421.6	426.6
62.5°	5679.2	3933.3	1240.0	600.2	545.6	530.7	525.8	466.2	411.7	386.9	391.8
65°	5203.0	3546.4	1051.5	510.9	491.0	486.1	486.1	431.5	381.9	352.2	357.1
67.5°	4478.9	2976.0	858.1	431.5	436.5	446.4	446.4	396.8	347.2	317.4	322.4
70°	3591.0	2326.2	684.5	372.0	377.0	391.8	401.8	357.1	312.5	282.7	282.7
72.5°	2703.2	1765.8	550.6	312.5	337.3	337.3	352.2	317.4	272.8	243.0	248.0
75°	1959.2	1264.8	436.5	262.9	292.6	287.7	287.7	267.8	233.1	213.3	213.3
77.5°	927.5	664.6	347.2	188.5	228.2	223.2	228.2	213.3	198.4	178.6	183.5
80°	456.3	327.4	223.2	133.9	158.7	163.7	178.6	168.6	163.7	148.8	148.8
82.5°	218.2	129.0	104.2	94.2	109.1	114.1	124.0	124.0	129.0	119.0	119.0
85°	59.5	34.7	44.6	59.5	69.4	74.4	84.3	89.3	89.3	84.3	89.3
87.5°	14.9	14.9	19.8	29.8	34.7	39.7	44.6	44.6	19.8	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)