

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: P842009

Luminaire Tested: **ARCH4-260-722-U-T2R-HSS**

Issue Date: 5/27/2024

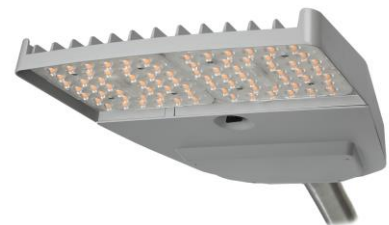
Test Information

Test Method: LM-79-08
Report Number: P842009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23004 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 259.2
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

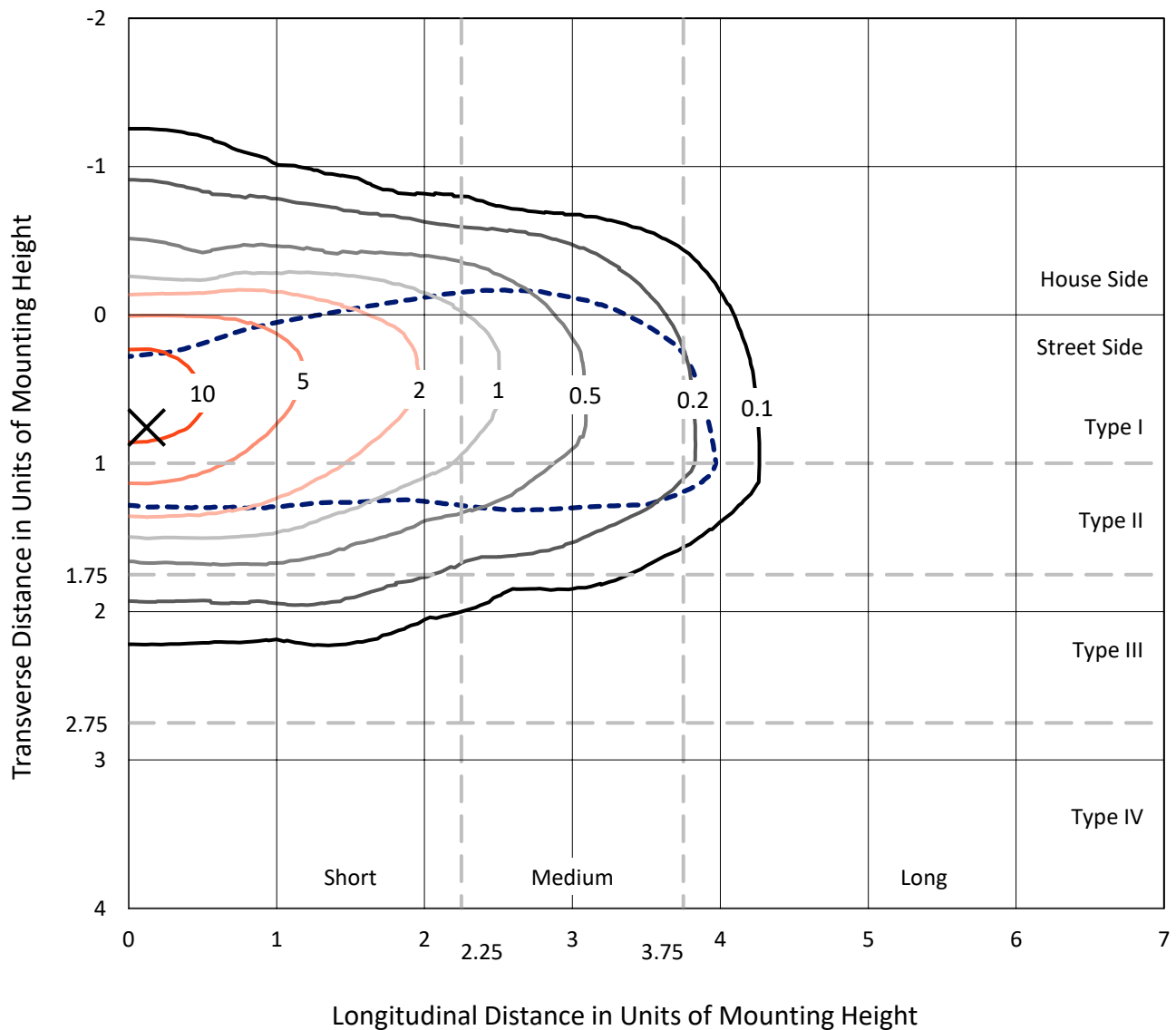


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

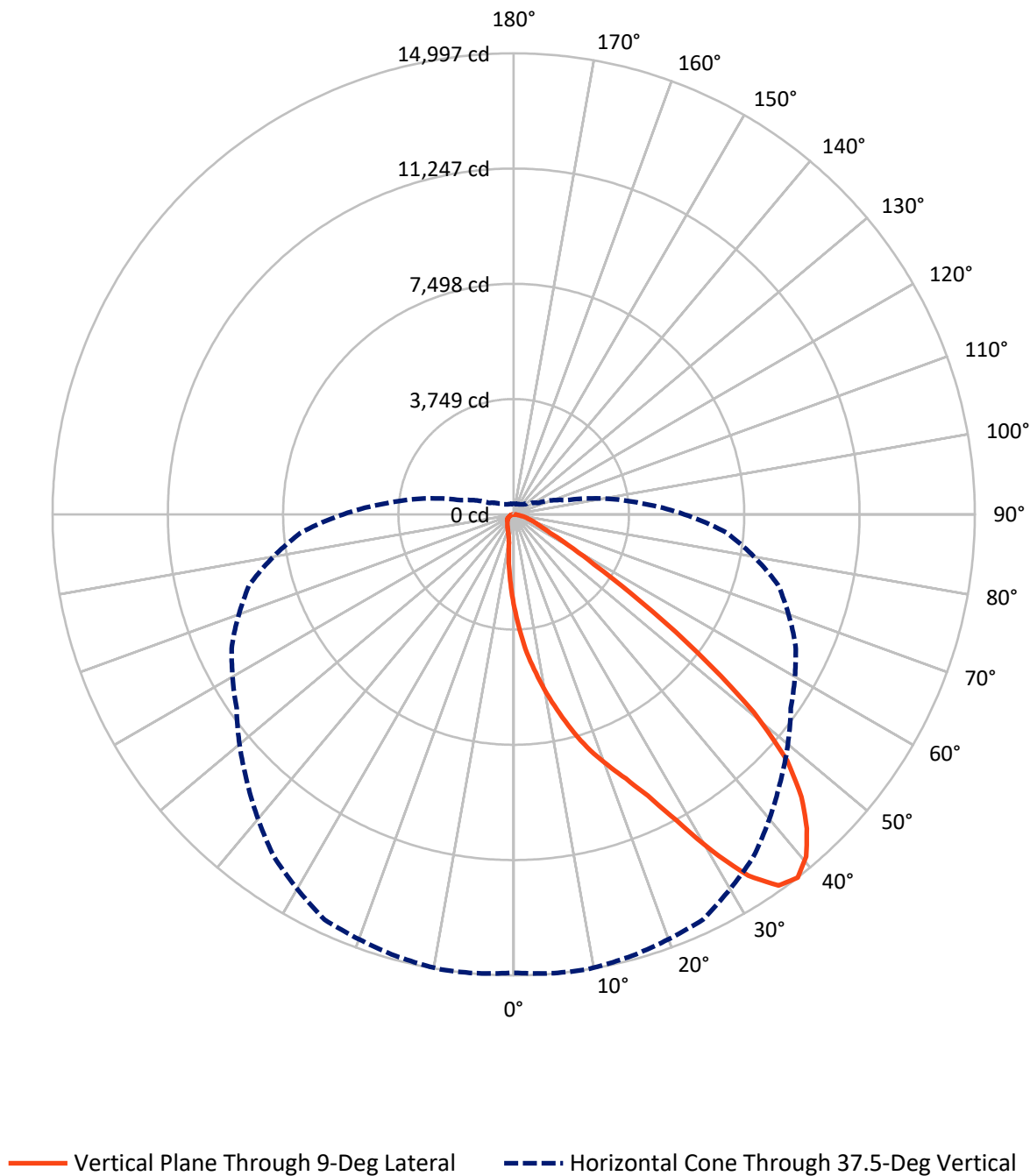


Based on 25 foot mounting height. Maximum calculated value = 13.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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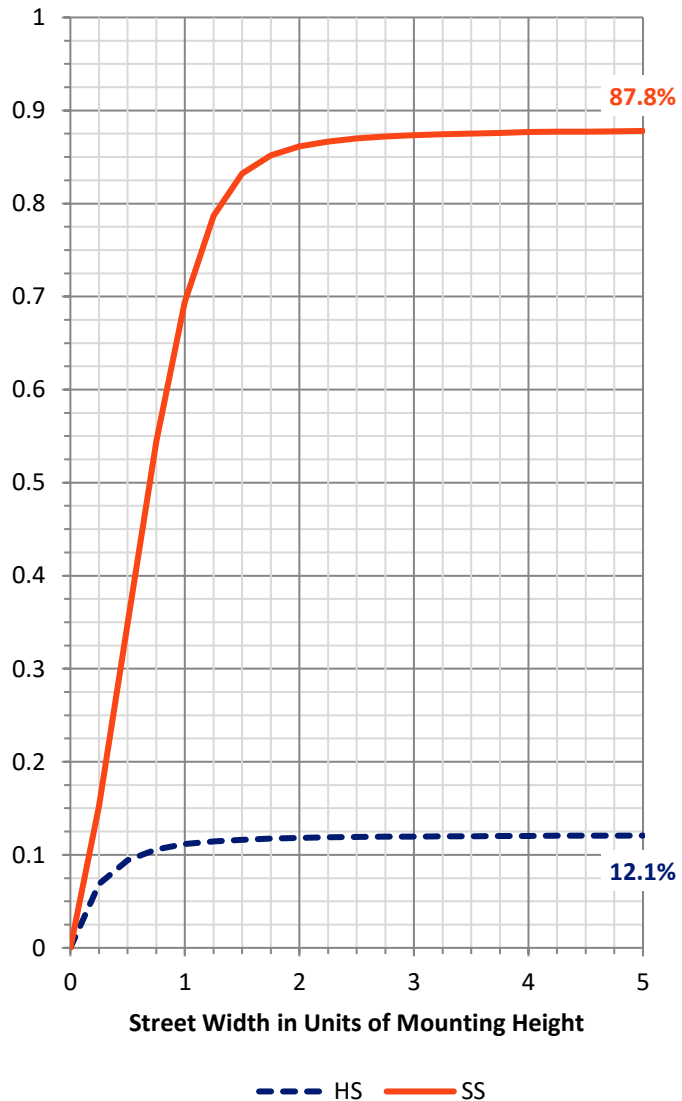
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2797.7	0.0	2797.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20206.3	0.0	20206.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	23004.0	0.0	23004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.7	1.3
10°-20°	1062.3	4.6
20°-30°	2182.9	9.5
30°-40°	3858.4	16.8
40°-50°	5125.6	22.3
50°-60°	4861.3	21.1
60°-70°	3708.7	16.1
70°-80°	1798.0	7.8
80°-90°	101.2	0.4
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°	23004.0	100.0
0°-180°	23004.0	100.0

Coefficient of Utilization



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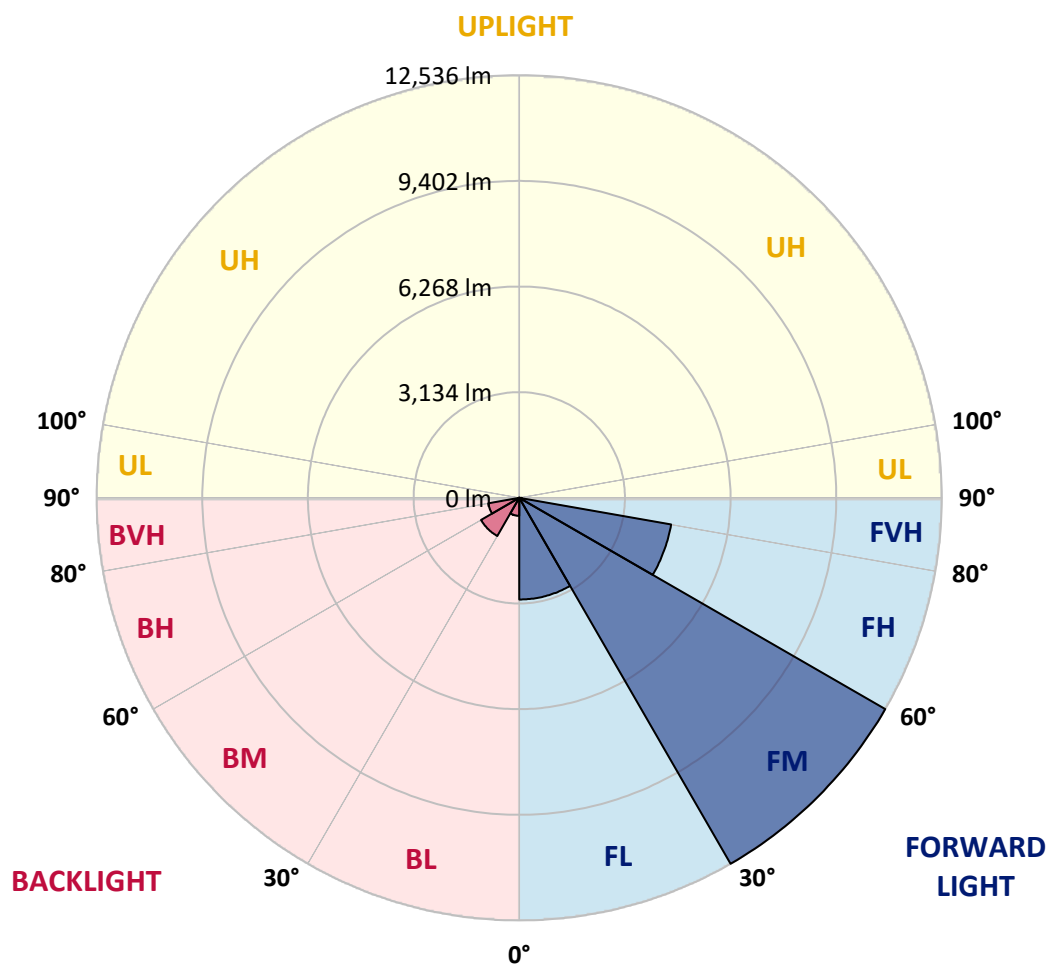
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3017.0	13.1			
FM	(30°-60°)	12536.1	54.5			
FH	(60°-80°)	4573.1	19.9			G2/5000
FVH	(80°-90°)	80.1	0.3			G1/100
BL	(0°-30°)	533.9	2.3	B2/1000		
BM	(30°-60°)	1309.1	5.7	B2/2500		
BH	(60°-80°)	933.6	4.1	B2/1000		G2/1000
BVH	(80°-90°)	21.1	0.1			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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9
2.5°	3768.0	3701.9	3777.5	3768.0	3701.9	3659.4	3527.2	3484.7	3328.9	3215.6	3116.4
5°	4542.4	4476.3	4542.4	4523.5	4429.1	4325.2	4108.0	3966.3	3687.7	3442.2	3220.3
7.5°	5184.6	5184.6	5212.9	5217.6	5104.3	4943.7	4674.6	4462.1	4070.2	3692.5	3338.3
10°	5878.7	5883.4	5944.8	5902.3	5751.2	5534.0	5194.0	4924.9	4452.7	3956.9	3451.6
12.5°	6620.0	6624.7	6643.6	6624.7	6445.3	6166.7	5755.9	5401.8	4858.8	4259.1	3607.5
15°	7361.3	7366.0	7389.6	7356.6	7158.3	6832.5	6365.0	5930.6	5288.4	4599.1	3796.3
17.5°	8055.4	8064.9	8083.8	8041.3	7833.5	7446.3	6969.4	6445.3	5746.5	4962.6	4008.8
20°	8678.7	8688.1	8702.3	8645.6	8437.9	8050.7	7536.0	6988.3	6213.9	5335.7	4240.2
22.5°	9306.7	9316.1	9339.8	9264.2	9032.8	8589.0	8083.8	7517.1	6709.7	5746.5	4509.3
25°	10109.4	10118.9	10137.7	10029.1	9712.8	9193.4	8659.8	8079.0	7248.0	6209.2	4839.9
27.5°	11285.1	11275.7	11275.7	11077.4	10534.4	9859.2	9240.6	8650.4	7828.8	6705.0	5203.4
30°	12739.5	12715.9	12701.7	12432.5	11658.2	10609.9	9835.5	9183.9	8385.9	7229.1	5595.4
32.5°	14042.7	14042.7	14014.4	13731.0	12909.4	11620.4	10468.3	9703.3	8924.2	7757.9	6001.4
35°	14812.3	14845.4	14831.2	14618.7	14019.1	12706.4	11322.9	10326.6	9490.9	8310.4	6487.8
37.5°	14916.2	14982.3	14996.5	14869.0	14552.6	13594.1	12272.0	11001.8	10114.1	8905.3	6960.0
40°	14496.0	14637.6	14637.6	14618.7	14505.4	14014.4	13070.0	11785.7	10756.3	9523.9	7436.9
42.5°	13849.1	13995.5	13976.6	14047.4	14019.1	13915.2	13518.6	12517.5	11398.5	10161.4	7871.3
45°	13003.9	13155.0	13117.2	13244.7	13301.4	13414.7	13471.3	13027.5	12031.2	10855.5	8357.6
47.5°	11648.7	11903.7	11960.4	12187.0	12423.1	12777.2	13046.4	13211.6	12621.4	11601.5	8886.5
50°	9646.7	10005.5	10118.9	10595.8	11242.6	11974.5	12408.9	12985.0	13036.9	12366.4	9457.8
52.5°	6908.0	7323.5	7498.2	8282.1	9613.6	10888.5	11672.3	12484.5	13197.5	13098.3	10076.4
55°	4466.8	4821.0	4991.0	5727.6	7498.2	9500.3	10803.5	11837.6	13107.8	13768.8	10784.6
57.5°	2752.8	2955.9	3069.2	3701.9	5330.9	7720.2	9665.6	11242.6	12833.9	14349.6	11521.2
60°	1855.7	1973.7	2030.4	2327.9	3621.6	5770.1	8102.6	10619.4	12475.0	14741.5	12191.7
62.5°	1232.4	1270.2	1326.8	1511.0	2389.2	4051.3	6223.4	9505.0	12205.9	14765.1	12687.5
65°	953.8	972.7	996.3	1076.6	1473.2	2833.1	4377.1	7701.3	11804.5	14264.6	12843.3
67.5°	750.8	769.7	798.0	840.5	1067.1	1921.8	2979.5	5642.6	10982.9	13480.8	12588.4
70°	590.2	604.4	623.3	661.1	831.0	1392.9	1969.0	3749.1	9325.6	12734.7	11785.7
72.5°	467.5	481.6	500.5	538.3	675.2	1019.9	1350.4	2337.3	7191.3	11823.4	10241.6
75°	368.3	377.7	391.9	429.7	543.0	793.3	916.0	1397.7	4887.1	10156.6	7979.9
77.5°	184.2	226.6	259.7	297.5	396.6	547.7	609.1	774.4	2063.4	5212.9	3805.8
80°	108.6	132.2	141.7	165.3	259.7	330.5	330.5	311.6	651.6	2002.1	1553.5
82.5°	61.4	85.0	89.7	94.4	155.8	188.9	151.1	113.3	132.2	670.5	453.3
85°	18.9	28.3	33.1	37.8	51.9	56.7	51.9	47.2	37.8	66.1	42.5
87.5°	0.0	0.0	0.0	0.0	4.7	9.4	9.4	9.4	14.2	14.2	14.2
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°	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9
2.5°	3059.7	2998.4	2880.3	2771.7	2667.8	2592.3	2521.5	2455.3	2408.1	2370.4	2365.6
5°	3102.2	2979.5	2752.8	2540.3	2346.7	2186.2	2049.3	1940.7	1860.4	1803.7	1799.0
7.5°	3158.9	2970.0	2625.3	2309.0	2020.9	1789.6	1591.3	1444.9	1341.0	1298.5	1265.4
10°	3206.1	2960.6	2497.8	2077.6	1699.9	1407.1	1171.0	1024.6	949.1	920.8	906.6
12.5°	3286.4	2970.0	2389.2	1865.1	1421.3	1076.6	897.1	816.9	783.8	760.2	755.5
15°	3404.4	3012.5	2285.4	1657.4	1138.0	868.8	764.9	713.0	679.9	675.2	670.5
17.5°	3522.5	3050.3	2190.9	1444.9	944.4	755.5	684.7	642.2	618.6	613.8	613.8
20°	3659.4	3097.5	2087.0	1241.8	807.4	679.9	623.3	590.2	561.9	557.2	557.2
22.5°	3820.0	3163.6	1987.9	1062.4	717.7	623.3	576.1	538.3	514.7	510.0	510.0
25°	4037.2	3262.8	1907.6	930.2	656.3	576.1	533.6	500.5	481.6	472.2	472.2
27.5°	4278.0	3399.7	1851.0	849.9	613.8	538.3	495.8	467.5	448.6	439.1	439.1
30°	4547.1	3550.8	1813.2	816.9	590.2	505.2	467.5	439.1	415.5	410.8	410.8
32.5°	4844.6	3725.5	1789.6	821.6	585.5	481.6	439.1	410.8	391.9	382.5	382.5
35°	5175.1	3919.1	1775.4	849.9	594.9	462.7	415.5	387.2	368.3	358.9	358.9
37.5°	5543.4	4145.8	1775.4	878.3	618.6	458.0	391.9	363.6	349.4	340.0	340.0
40°	5888.1	4386.6	1794.3	911.3	642.2	458.0	373.0	349.4	330.5	321.1	321.1
42.5°	6157.3	4523.5	1808.5	944.4	656.3	453.3	354.1	330.5	316.4	306.9	306.9
45°	6464.2	4669.9	1780.1	958.5	656.3	443.9	340.0	316.4	302.2	292.8	292.8
47.5°	6804.1	4849.3	1775.4	968.0	642.2	425.0	325.8	302.2	292.8	283.3	283.3
50°	7148.8	5047.6	1784.8	963.3	623.3	396.6	306.9	292.8	278.6	269.1	269.1
52.5°	7540.7	5255.4	1803.7	953.8	580.8	363.6	292.8	278.6	264.4	255.0	250.3
55°	7975.1	5482.0	1841.5	934.9	524.1	330.5	278.6	264.4	245.5	236.1	231.4
57.5°	8475.7	5760.6	1884.0	897.1	462.7	302.2	264.4	245.5	217.2	203.0	198.3
60°	8952.6	6077.0	1931.2	807.4	401.4	273.9	250.3	221.9	193.6	184.2	179.4
62.5°	9401.1	6388.6	1954.8	646.9	340.0	250.3	236.1	203.0	174.7	165.3	160.5
65°	9689.2	6728.6	1902.9	439.1	278.6	231.4	217.2	188.9	160.5	146.4	146.4
67.5°	9708.1	6889.1	1723.5	288.0	226.6	207.8	198.3	170.0	141.7	132.2	127.5
70°	9231.2	6648.3	1317.4	226.6	188.9	179.4	179.4	151.1	122.8	113.3	108.6
72.5°	8135.7	5888.1	840.5	184.2	160.5	151.1	151.1	127.5	108.6	94.4	89.7
75°	6421.7	4542.4	448.6	151.1	132.2	127.5	118.0	103.9	89.7	80.3	75.5
77.5°	2951.1	2002.1	207.8	108.6	99.2	99.2	89.7	75.5	70.8	61.4	61.4
80°	1166.3	679.9	103.9	70.8	66.1	66.1	66.1	51.9	51.9	42.5	37.8
82.5°	321.1	141.7	51.9	42.5	42.5	42.5	37.8	33.1	33.1	28.3	28.3
85°	33.1	23.6	23.6	23.6	23.6	18.9	18.9	14.2	9.4	9.4	9.4
87.5°	14.2	14.2	14.2	14.2	14.2	9.4	4.7	0.0	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)