

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: P840974

Luminaire Tested: **ARCH4-110-750-U-T2R-HSS**

Issue Date: 5/27/2024

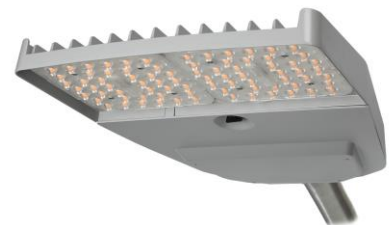
Test Information

Test Method: LM-79-08
Report Number: P840974
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: ARCH4-110-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 920mA 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: 13935 lumens
Efficiency: N/A
Efficacy: 123.8 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

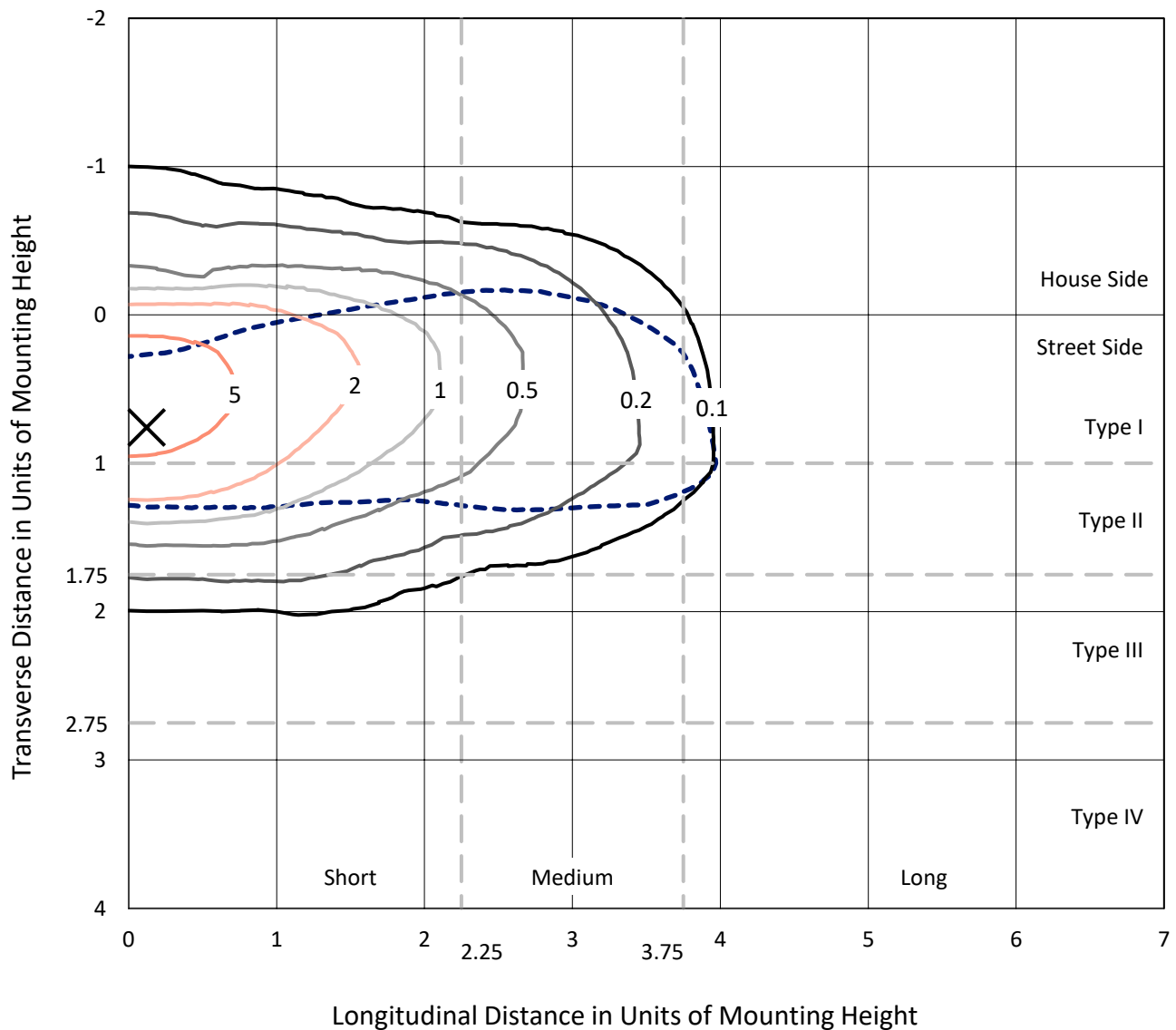
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

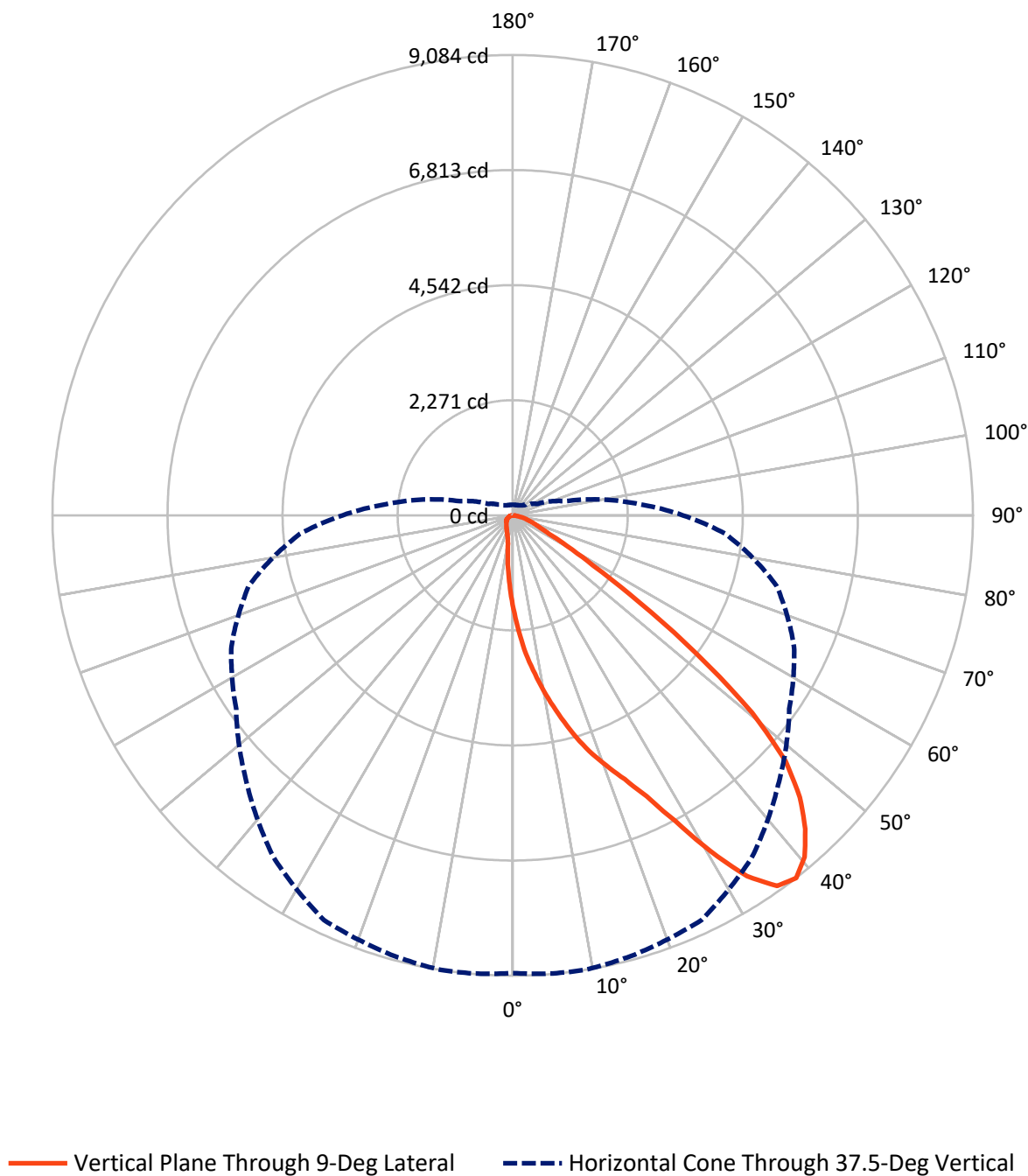
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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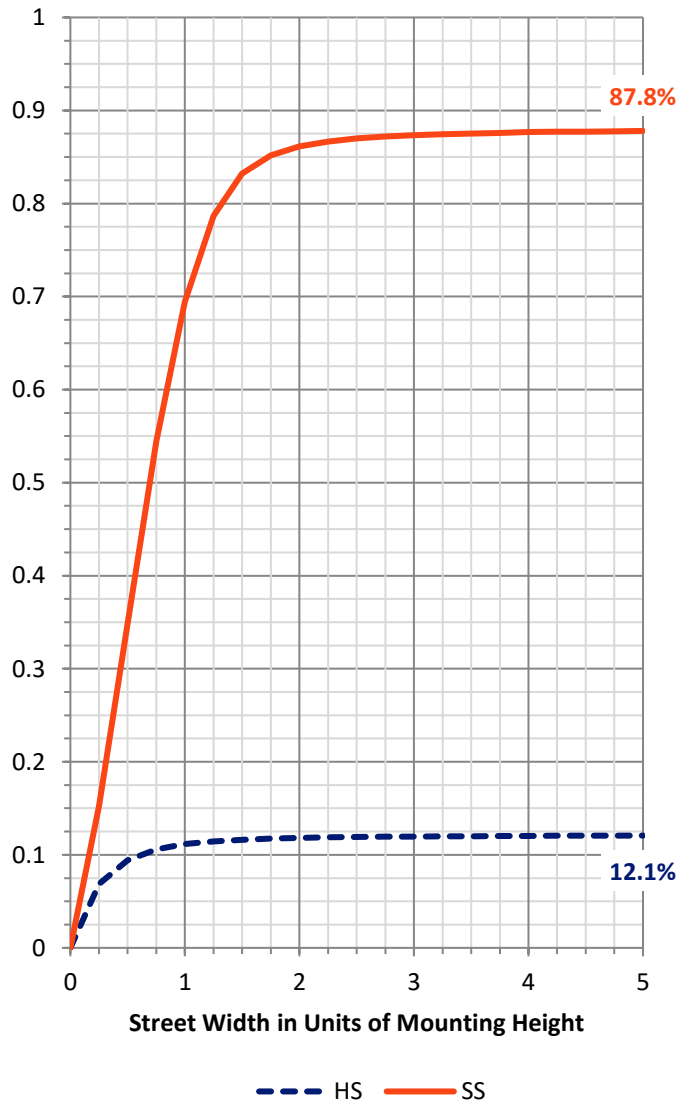
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1694.7	0.0	1694.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12240.3	0.0	12240.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	13935.0	0.0	13935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	1.3
10°-20°	643.5	4.6
20°-30°	1322.3	9.5
30°-40°	2337.3	16.8
40°-50°	3104.9	22.3
50°-60°	2944.8	21.1
60°-70°	2246.6	16.1
70°-80°	1089.1	7.8
80°-90°	61.3	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°	13935.0	100.0
0°-180°	13935.0	100.0

Coefficient of Utilization



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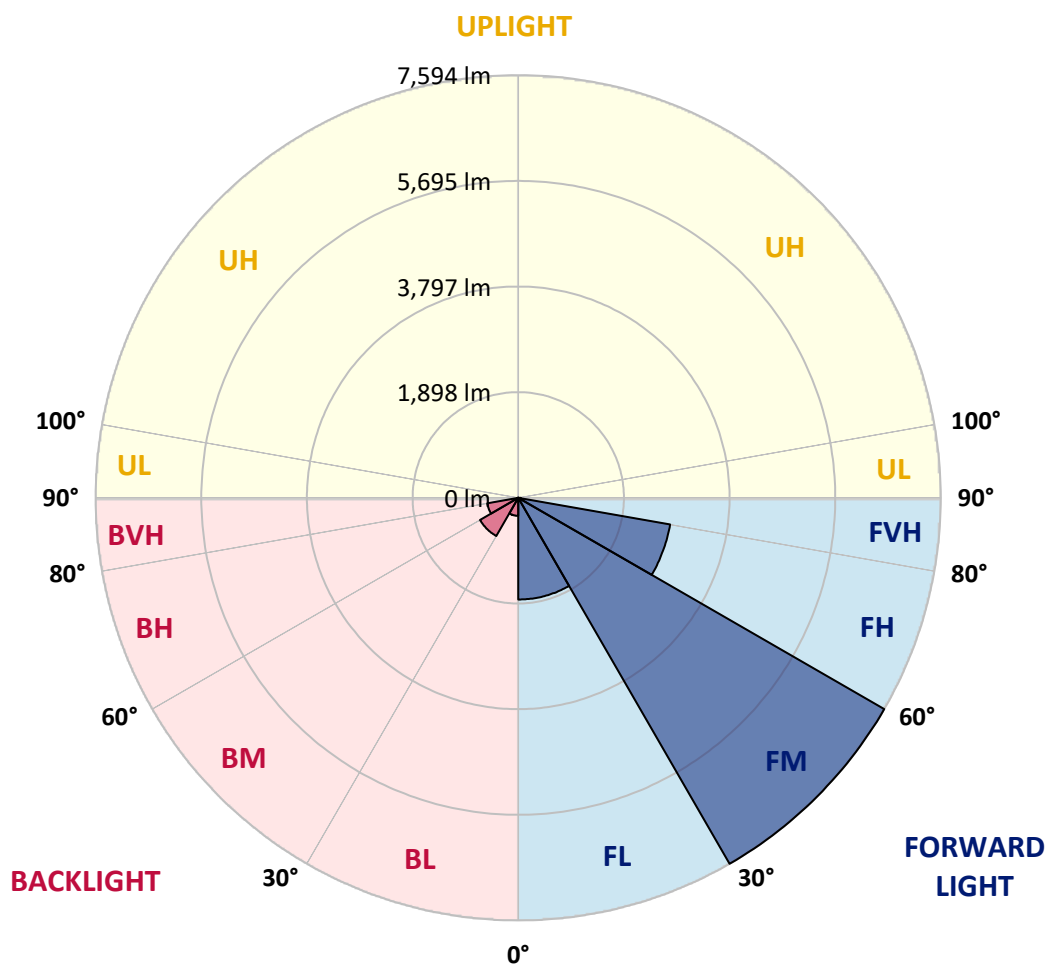
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1827.6	13.1			
FM	(30°-60°)	7593.9	54.5			
FH	(60°-80°)	2770.2	19.9			G2/5000
FVH	(80°-90°)	48.5	0.3			G1/100
BL	(0°-30°)	323.4	2.3	B1/500		
BM	(30°-60°)	793.0	5.7	B1/1000		
BH	(60°-80°)	565.5	4.1	B2/1000		G2/1000
BVH	(80°-90°)	12.8	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°	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0
2.5°	2282.5	2242.5	2288.2	2282.5	2242.5	2216.7	2136.7	2110.9	2016.5	1947.9	1887.8
5°	2751.6	2711.6	2751.6	2740.2	2683.0	2620.0	2488.5	2402.7	2233.9	2085.2	1950.7
7.5°	3140.6	3140.6	3157.8	3160.6	3092.0	2994.7	2831.7	2703.0	2465.6	2236.8	2022.2
10°	3561.1	3563.9	3601.1	3575.4	3483.9	3352.3	3146.3	2983.3	2697.3	2396.9	2090.9
12.5°	4010.2	4013.0	4024.5	4013.0	3904.3	3735.6	3486.7	3272.2	2943.3	2580.0	2185.3
15°	4459.2	4462.1	4476.4	4456.4	4336.2	4138.9	3855.7	3592.5	3203.5	2785.9	2299.7
17.5°	4879.7	4885.4	4896.8	4871.1	4745.3	4510.7	4221.8	3904.3	3481.0	3006.2	2428.4
20°	5257.2	5263.0	5271.5	5237.2	5111.4	4876.8	4565.1	4233.3	3764.2	3232.1	2568.6
22.5°	5637.7	5643.4	5657.7	5611.9	5471.8	5202.9	4896.8	4553.6	4064.5	3481.0	2731.6
25°	6123.9	6129.6	6141.1	6075.3	5883.7	5569.0	5245.8	4894.0	4390.6	3761.3	2931.8
27.5°	6836.1	6830.4	6830.4	6710.3	6381.3	5972.3	5597.6	5240.1	4742.4	4061.6	3152.1
30°	7717.1	7702.8	7694.2	7531.2	7062.1	6427.1	5958.0	5563.3	5079.9	4379.1	3389.5
32.5°	8506.6	8506.6	8489.4	8317.8	7820.1	7039.2	6341.3	5877.9	5406.0	4699.5	3635.5
35°	8972.8	8992.8	8984.2	8855.5	8492.3	7697.1	6859.0	6255.5	5749.2	5034.1	3930.1
37.5°	9035.7	9075.8	9084.3	9007.1	8815.5	8234.8	7433.9	6664.5	6126.8	5394.5	4216.1
40°	8781.1	8867.0	8867.0	8855.5	8786.9	8489.4	7917.3	7139.3	6515.8	5769.2	4505.0
42.5°	8389.3	8478.0	8466.5	8509.4	8492.3	8429.3	8189.1	7582.7	6904.8	6155.4	4768.1
45°	7877.3	7968.8	7945.9	8023.2	8057.5	8126.1	8160.5	7891.6	7288.1	6575.8	5062.7
47.5°	7056.4	7210.8	7245.2	7382.5	7525.5	7740.0	7903.0	8003.1	7645.6	7027.8	5383.1
50°	5843.6	6061.0	6129.6	6418.5	6810.4	7253.7	7516.9	7865.8	7897.3	7491.1	5729.2
52.5°	4184.6	4436.3	4542.2	5017.0	5823.6	6595.9	7070.7	7562.7	7994.6	7934.5	6103.9
55°	2705.9	2920.4	3023.3	3469.6	4542.2	5754.9	6544.4	7170.8	7940.2	8340.7	6532.9
57.5°	1667.6	1790.6	1859.2	2242.5	3229.3	4676.6	5855.1	6810.4	7774.3	8692.5	6979.2
60°	1124.1	1195.6	1229.9	1410.1	2193.9	3495.3	4908.3	6432.8	7556.9	8929.9	7385.3
62.5°	746.5	769.4	803.7	915.3	1447.3	2454.1	3769.9	5757.8	7393.9	8944.2	7685.6
65°	577.8	589.2	603.5	652.2	892.4	1716.2	2651.5	4665.2	7150.8	8641.0	7780.0
67.5°	454.8	466.2	483.4	509.1	646.4	1164.1	1804.9	3418.1	6653.1	8166.2	7625.6
70°	357.5	366.1	377.6	400.4	503.4	843.8	1192.7	2271.1	5649.1	7714.3	7139.3
72.5°	283.2	291.8	303.2	326.1	409.0	617.8	818.0	1415.9	4356.2	7162.2	6204.0
75°	223.1	228.8	237.4	260.3	328.9	480.5	554.9	846.7	2960.4	6152.5	4833.9
77.5°	111.6	137.3	157.3	180.2	240.3	331.8	369.0	469.1	1250.0	3157.8	2305.4
80°	65.8	80.1	85.8	100.1	157.3	200.2	200.2	188.8	394.7	1212.8	941.0
82.5°	37.2	51.5	54.3	57.2	94.4	114.4	91.5	68.6	80.1	406.2	274.6
85°	11.4	17.2	20.0	22.9	31.5	34.3	31.5	28.6	22.9	40.0	25.7
87.5°	0.0	0.0	0.0	0.0	2.9	5.7	5.7	5.7	8.6	8.6	8.6
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°	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0
2.5°	1853.5	1816.3	1744.8	1679.0	1616.1	1570.3	1527.4	1487.4	1458.8	1435.9	1433.0
5°	1879.2	1804.9	1667.6	1538.8	1421.6	1324.3	1241.4	1175.6	1127.0	1092.6	1089.8
7.5°	1913.5	1799.1	1590.3	1398.7	1224.2	1084.1	963.9	875.3	812.3	786.6	766.6
10°	1942.1	1793.4	1513.1	1258.5	1029.7	852.4	709.4	620.7	574.9	557.8	549.2
12.5°	1990.8	1799.1	1447.3	1129.8	861.0	652.2	543.5	494.8	474.8	460.5	457.6
15°	2062.3	1824.9	1384.4	1004.0	689.3	526.3	463.4	431.9	411.9	409.0	406.2
17.5°	2133.8	1847.8	1327.2	875.3	572.1	457.6	414.7	389.0	374.7	371.8	371.8
20°	2216.7	1876.4	1264.3	752.3	489.1	411.9	377.6	357.5	340.4	337.5	337.5
22.5°	2314.0	1916.4	1204.2	643.6	434.8	377.6	349.0	326.1	311.8	308.9	308.9
25°	2445.6	1976.5	1155.6	563.5	397.6	349.0	323.2	303.2	291.8	286.0	286.0
27.5°	2591.4	2059.4	1121.2	514.9	371.8	326.1	300.3	283.2	271.7	266.0	266.0
30°	2754.5	2151.0	1098.4	494.8	357.5	306.1	283.2	266.0	251.7	248.8	248.8
32.5°	2934.7	2256.8	1084.1	497.7	354.7	291.8	266.0	248.8	237.4	231.7	231.7
35°	3134.9	2374.1	1075.5	514.9	360.4	280.3	251.7	234.5	223.1	217.4	217.4
37.5°	3358.0	2511.4	1075.5	532.0	374.7	277.4	237.4	220.2	211.7	205.9	205.9
40°	3566.8	2657.2	1086.9	552.0	389.0	277.4	226.0	211.7	200.2	194.5	194.5
42.5°	3729.8	2740.2	1095.5	572.1	397.6	274.6	214.5	200.2	191.6	185.9	185.9
45°	3915.8	2828.8	1078.3	580.6	397.6	268.9	205.9	191.6	183.1	177.3	177.3
47.5°	4121.7	2937.5	1075.5	586.4	389.0	257.4	197.4	183.1	177.3	171.6	171.6
50°	4330.5	3057.7	1081.2	583.5	377.6	240.3	185.9	177.3	168.8	163.0	163.0
52.5°	4567.9	3183.5	1092.6	577.8	351.8	220.2	177.3	168.8	160.2	154.5	151.6
55°	4831.1	3320.8	1115.5	566.3	317.5	200.2	168.8	160.2	148.7	143.0	140.2
57.5°	5134.3	3489.6	1141.3	543.5	280.3	183.1	160.2	148.7	131.6	123.0	120.1
60°	5423.1	3681.2	1169.9	489.1	243.1	165.9	151.6	134.4	117.3	111.6	108.7
62.5°	5694.9	3870.0	1184.2	391.9	205.9	151.6	143.0	123.0	105.8	100.1	97.3
65°	5869.4	4075.9	1152.7	266.0	168.8	140.2	131.6	114.4	97.3	88.7	88.7
67.5°	5880.8	4173.2	1044.0	174.5	137.3	125.9	120.1	103.0	85.8	80.1	77.2
70°	5591.9	4027.3	798.0	137.3	114.4	108.7	108.7	91.5	74.4	68.6	65.8
72.5°	4928.3	3566.8	509.1	111.6	97.3	91.5	91.5	77.2	65.8	57.2	54.3
75°	3890.0	2751.6	271.7	91.5	80.1	77.2	71.5	62.9	54.3	48.6	45.8
77.5°	1787.7	1212.8	125.9	65.8	60.1	60.1	54.3	45.8	42.9	37.2	37.2
80°	706.5	411.9	62.9	42.9	40.0	40.0	40.0	31.5	31.5	25.7	22.9
82.5°	194.5	85.8	31.5	25.7	25.7	25.7	22.9	20.0	20.0	17.2	17.2
85°	20.0	14.3	14.3	14.3	14.3	11.4	11.4	8.6	5.7	5.7	5.7
87.5°	8.6	8.6	8.6	8.6	8.6	5.7	2.9	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)