

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: P836036

Luminaire Tested: **ARCH3-130-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13629 lumens
Efficiency: N/A
Efficacy: 102.8 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): 132.6
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

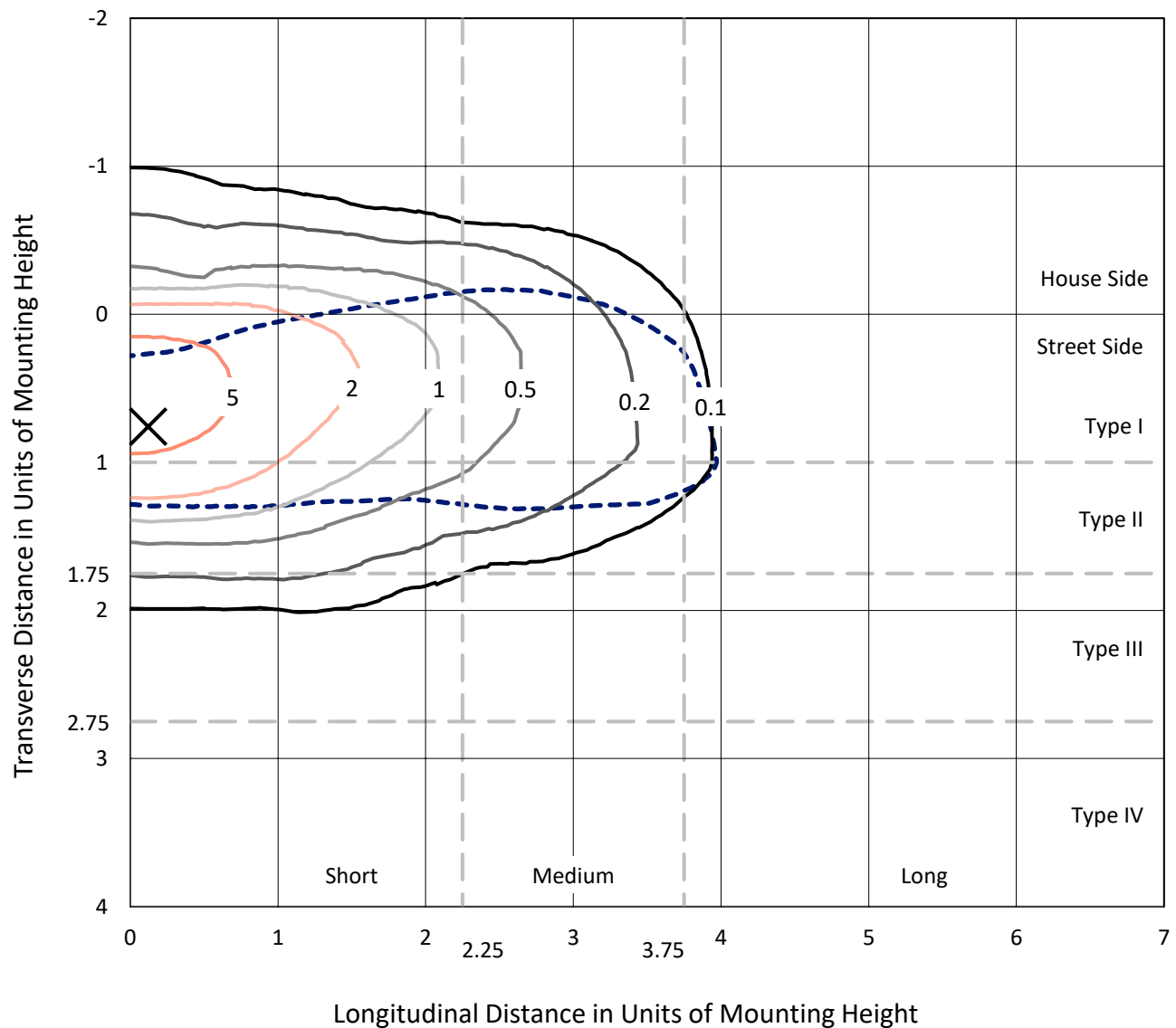


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Iso-Footcandle Lines of Horizontal Illumination

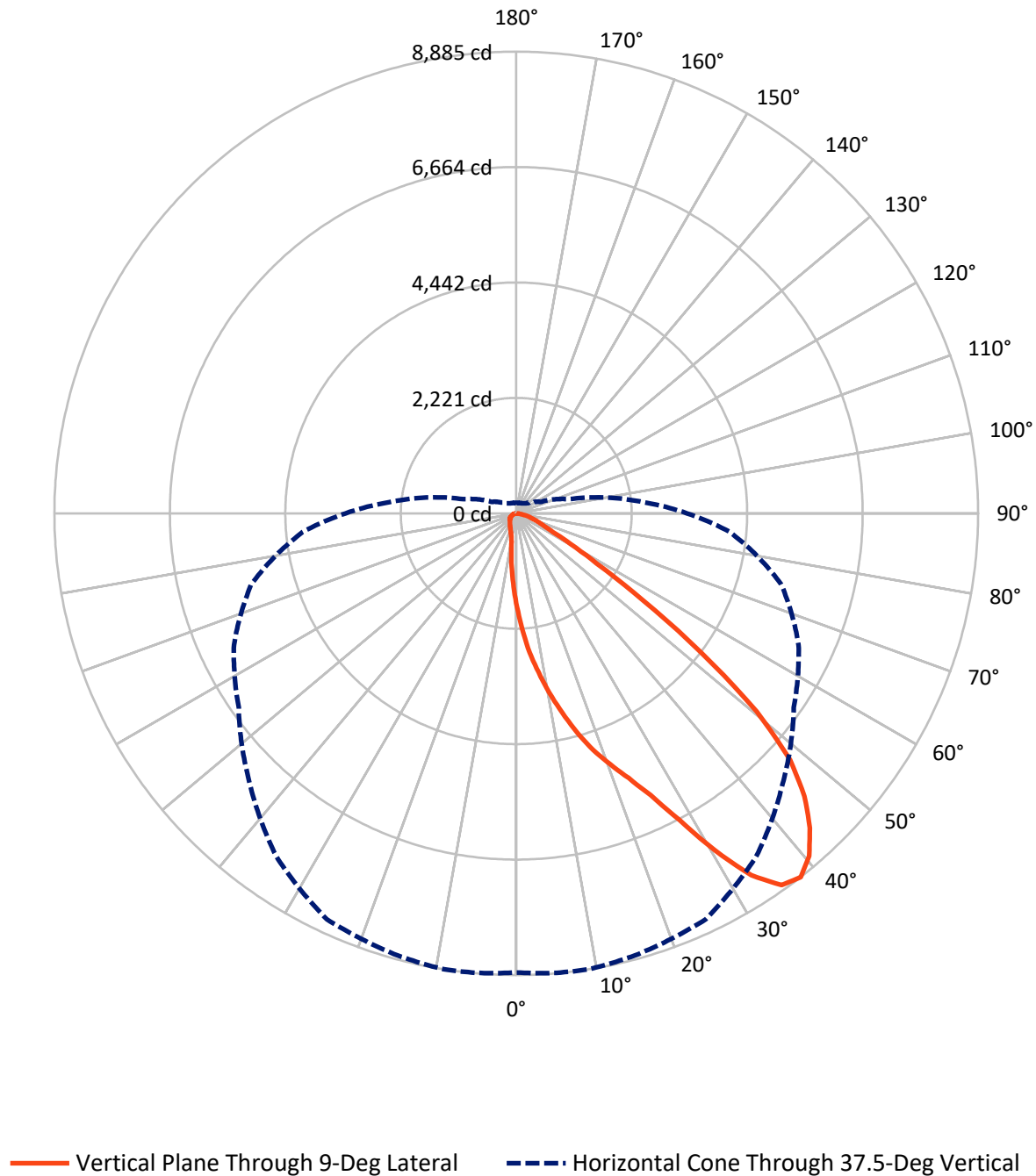
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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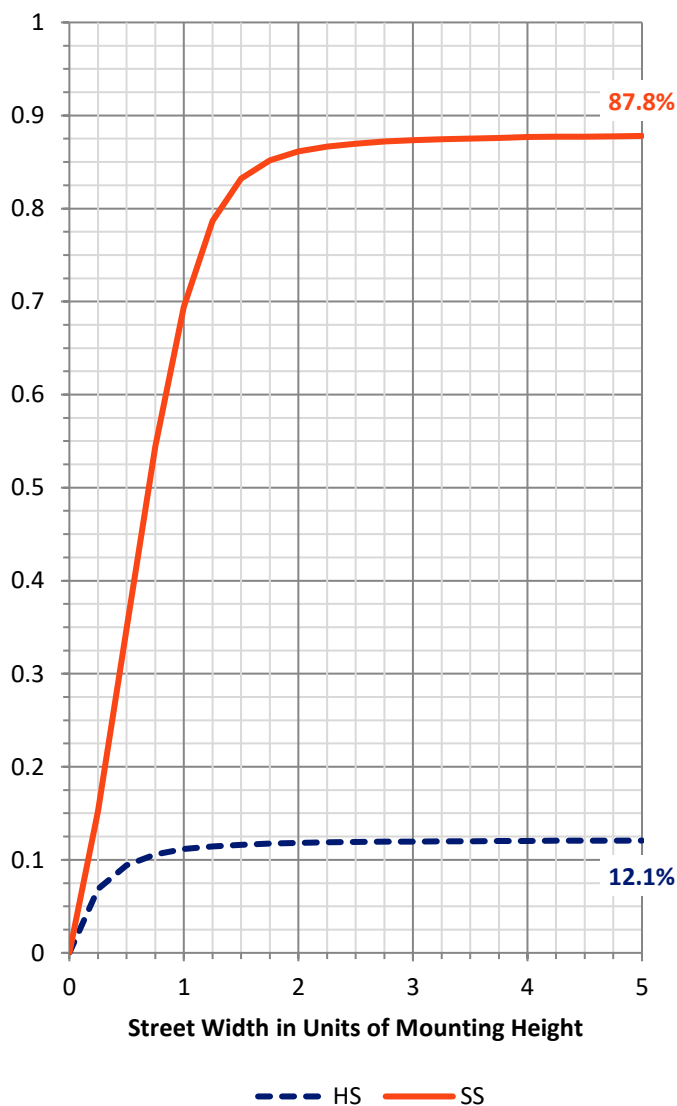
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1657.5	0.0	1657.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11971.5	0.0	11971.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	13629.0	0.0	13629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	1.3
10°-20°	629.4	4.6
20°-30°	1293.3	9.5
30°-40°	2286.0	16.8
40°-50°	3036.7	22.3
50°-60°	2880.1	21.1
60°-70°	2197.3	16.1
70°-80°	1065.2	7.8
80°-90°	60.0	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°	13629.0	100.0
0°-180°	13629.0	100.0

Coefficient of Utilization



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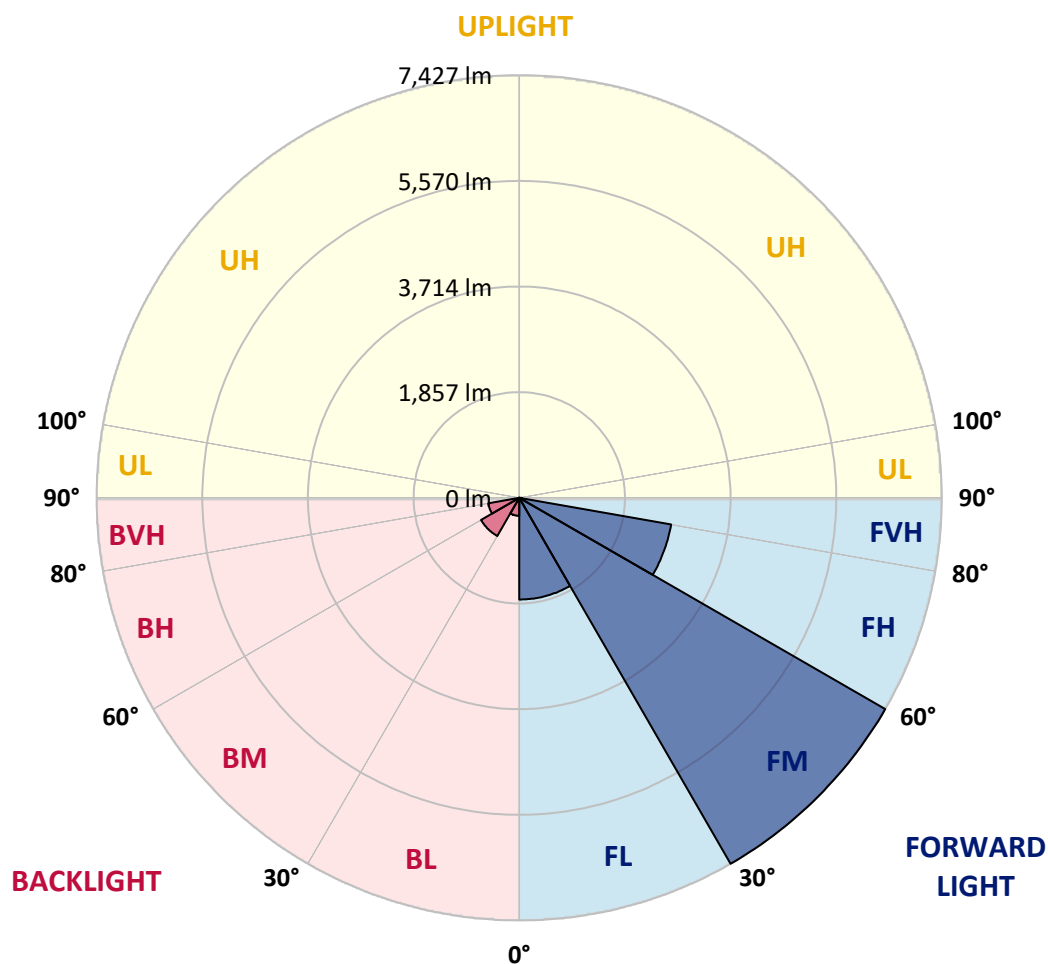
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1787.4	13.1			
FM	(30°-60°)	7427.2	54.5			
FH	(60°-80°)	2709.4	19.9			G2/5000
FVH	(80°-90°)	47.5	0.3			G1/100
BL	(0°-30°)	316.3	2.3	B1/500		
BM	(30°-60°)	775.6	5.7	B1/1000		
BH	(60°-80°)	553.1	4.1	B2/1000		G2/1000
BVH	(80°-90°)	12.5	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°	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6
2.5°	2232.4	2193.2	2238.0	2232.4	2193.2	2168.1	2089.7	2064.6	1972.2	1905.1	1846.3
5°	2691.2	2652.0	2691.2	2680.0	2624.1	2562.5	2433.8	2349.9	2184.8	2039.4	1907.9
7.5°	3071.7	3071.7	3088.4	3091.2	3024.1	2929.0	2769.5	2643.6	2411.4	2187.6	1977.8
10°	3482.9	3485.7	3522.1	3496.9	3407.4	3278.7	3077.2	2917.8	2638.0	2344.3	2045.0
12.5°	3922.1	3924.9	3936.1	3924.9	3818.6	3653.5	3410.2	3200.3	2878.6	2523.3	2137.3
15°	4361.3	4364.1	4378.1	4358.5	4241.0	4048.0	3771.0	3513.7	3133.2	2724.8	2249.2
17.5°	4772.5	4778.1	4789.3	4764.1	4641.0	4411.7	4129.1	3818.6	3404.6	2940.2	2375.1
20°	5141.8	5147.4	5155.8	5122.2	4999.1	4769.7	4464.8	4140.3	3681.5	3161.2	2512.2
22.5°	5513.9	5519.5	5533.5	5488.7	5351.6	5088.6	4789.3	4453.6	3975.2	3404.6	2671.6
25°	5989.4	5995.0	6006.2	5941.9	5754.5	5446.7	5130.6	4786.5	4294.2	3678.7	2867.4
27.5°	6686.0	6680.4	6680.4	6562.9	6241.2	5841.2	5474.7	5125.0	4638.3	3972.4	3082.8
30°	7547.7	7533.7	7525.3	7365.8	6907.0	6286.0	5827.2	5441.1	4968.4	4283.0	3315.0
32.5°	8319.8	8319.8	8303.0	8135.1	7648.4	6884.6	6202.1	5748.9	5287.3	4596.3	3555.6
35°	8775.8	8795.3	8786.9	8661.1	8305.8	7528.1	6708.4	6118.1	5623.0	4923.6	3843.8
37.5°	8837.3	8876.5	8884.9	8809.3	8621.9	8054.0	7270.7	6518.2	5992.2	5276.1	4123.5
40°	8588.3	8672.2	8672.2	8661.1	8593.9	8303.0	7743.5	6982.6	6372.7	5642.6	4406.1
42.5°	8205.1	8291.8	8280.6	8322.6	8305.8	8244.2	8009.2	7416.2	6753.2	6020.2	4663.4
45°	7704.3	7793.8	7771.5	7847.0	7880.6	7947.7	7981.3	7718.3	7128.0	6431.4	4951.6
47.5°	6901.4	7052.5	7086.1	7220.3	7360.2	7570.0	7729.5	7827.4	7477.7	6873.5	5264.9
50°	5715.3	5927.9	5995.0	6277.6	6660.8	7094.5	7351.8	7693.1	7723.9	7326.6	5603.4
52.5°	4092.7	4338.9	4442.4	4906.8	5695.7	6451.0	6915.4	7396.6	7819.0	7760.3	5969.9
55°	2646.4	2856.2	2957.0	3393.4	4442.4	5628.6	6400.7	7013.3	7765.9	8157.5	6389.5
57.5°	1630.9	1751.2	1818.4	2193.2	3158.4	4573.9	5726.5	6660.8	7603.6	8501.6	6825.9
60°	1099.4	1169.4	1202.9	1379.2	2145.7	3418.5	4800.5	6291.6	7391.0	8733.8	7223.1
62.5°	730.1	752.5	786.1	895.2	1415.5	2400.3	3687.1	5631.4	7231.5	8747.8	7516.9
65°	565.1	576.3	590.3	637.8	872.8	1678.5	2593.3	4562.7	6993.7	8451.2	7609.2
67.5°	444.8	456.0	472.8	498.0	632.2	1138.6	1765.2	3343.0	6507.0	7986.9	7458.1
70°	349.7	358.1	369.3	391.6	492.4	825.3	1166.6	2221.2	5525.1	7544.9	6982.6
72.5°	277.0	285.3	296.5	318.9	400.0	604.3	800.1	1384.8	4260.6	7004.9	6067.8
75°	218.2	223.8	232.2	254.6	321.7	470.0	542.7	828.1	2895.4	6017.4	4727.8
77.5°	109.1	134.3	153.9	176.2	235.0	324.5	360.9	458.8	1222.5	3088.4	2254.8
80°	64.3	78.3	83.9	97.9	153.9	195.8	195.8	184.6	386.1	1186.1	920.4
82.5°	36.4	50.4	53.2	55.9	92.3	111.9	89.5	67.1	78.3	397.2	268.6
85°	11.2	16.8	19.6	22.4	30.8	33.6	30.8	28.0	22.4	39.2	25.2
87.5°	0.0	0.0	0.0	0.0	2.8	5.6	5.6	5.6	8.4	8.4	8.4
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°	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6	1801.6
2.5°	1812.8	1776.4	1706.5	1642.1	1580.6	1535.8	1493.9	1454.7	1426.7	1404.3	1401.5
5°	1838.0	1765.2	1630.9	1505.1	1390.4	1295.2	1214.1	1149.8	1102.2	1068.6	1065.8
7.5°	1871.5	1759.6	1555.4	1368.0	1197.3	1060.3	942.8	856.0	794.5	769.3	749.7
10°	1899.5	1754.0	1479.9	1230.9	1007.1	833.7	693.8	607.1	562.3	545.5	537.1
12.5°	1947.1	1759.6	1415.5	1105.0	842.0	637.8	531.5	484.0	464.4	450.4	447.6
15°	2017.0	1784.8	1354.0	981.9	674.2	514.7	453.2	422.4	402.8	400.0	397.2
17.5°	2086.9	1807.2	1298.0	856.0	559.5	447.6	405.6	380.5	366.5	363.7	363.7
20°	2168.1	1835.2	1236.5	735.7	478.4	402.8	369.3	349.7	332.9	330.1	330.1
22.5°	2263.2	1874.3	1177.7	629.4	425.2	369.3	341.3	318.9	304.9	302.1	302.1
25°	2391.9	1933.1	1130.2	551.1	388.9	341.3	316.1	296.5	285.3	279.7	279.7
27.5°	2534.5	2014.2	1096.6	503.5	363.7	318.9	293.7	277.0	265.8	260.2	260.2
30°	2694.0	2103.7	1074.2	484.0	349.7	299.3	277.0	260.2	246.2	243.4	243.4
32.5°	2870.2	2207.2	1060.3	486.8	346.9	285.3	260.2	243.4	232.2	226.6	226.6
35°	3066.1	2321.9	1051.9	503.5	352.5	274.2	246.2	229.4	218.2	212.6	212.6
37.5°	3284.3	2456.2	1051.9	520.3	366.5	271.4	232.2	215.4	207.0	201.4	201.4
40°	3488.5	2598.9	1063.0	539.9	380.5	271.4	221.0	207.0	195.8	190.2	190.2
42.5°	3647.9	2680.0	1071.4	559.5	388.9	268.6	209.8	195.8	187.4	181.8	181.8
45°	3829.8	2766.7	1054.7	567.9	388.9	263.0	201.4	187.4	179.0	173.4	173.4
47.5°	4031.2	2873.0	1051.9	573.5	380.5	251.8	193.0	179.0	173.4	167.8	167.8
50°	4235.4	2990.5	1057.5	570.7	369.3	235.0	181.8	173.4	165.1	159.5	159.5
52.5°	4467.6	3113.6	1068.6	565.1	344.1	215.4	173.4	165.1	156.7	151.1	148.3
55°	4725.0	3247.9	1091.0	553.9	310.5	195.8	165.1	156.7	145.5	139.9	137.1
57.5°	5021.5	3412.9	1116.2	531.5	274.2	179.0	156.7	145.5	128.7	120.3	117.5
60°	5304.1	3600.4	1144.2	478.4	237.8	162.3	148.3	131.5	114.7	109.1	106.3
62.5°	5569.8	3785.0	1158.2	383.3	201.4	148.3	139.9	120.3	103.5	97.9	95.1
65°	5740.5	3986.4	1127.4	260.2	165.1	137.1	128.7	111.9	95.1	86.7	86.7
67.5°	5751.7	4081.5	1021.1	170.6	134.3	123.1	117.5	100.7	83.9	78.3	75.5
70°	5469.1	3938.9	780.5	134.3	111.9	106.3	106.3	89.5	72.7	67.1	64.3
72.5°	4820.1	3488.5	498.0	109.1	95.1	89.5	89.5	75.5	64.3	55.9	53.2
75°	3804.6	2691.2	265.8	89.5	78.3	75.5	69.9	61.5	53.2	47.6	44.8
77.5°	1748.4	1186.1	123.1	64.3	58.7	58.7	53.2	44.8	42.0	36.4	36.4
80°	691.0	402.8	61.5	42.0	39.2	39.2	39.2	30.8	30.8	25.2	22.4
82.5°	190.2	83.9	30.8	25.2	25.2	25.2	22.4	19.6	19.6	16.8	16.8
85°	19.6	14.0	14.0	14.0	14.0	11.2	11.2	8.4	5.6	5.6	5.6
87.5°	8.4	8.4	8.4	8.4	8.4	5.6	2.8	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)