

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: P841619

Luminaire Tested: **ARCH4-200-740-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841619
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: ARCH4-200-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 22689 lumens
Efficiency: N/A
Efficacy: 111.4 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): 203.7
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



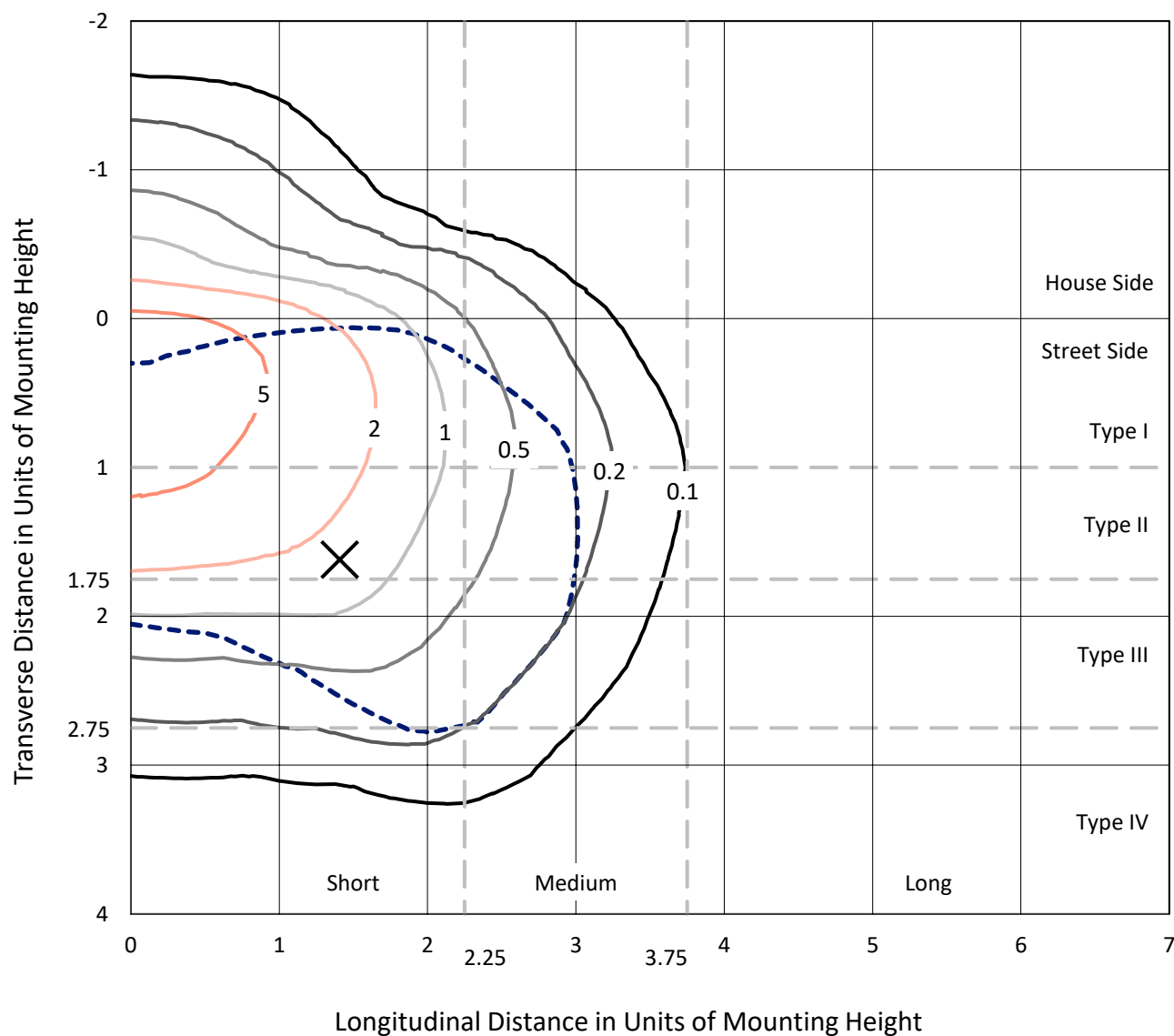
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

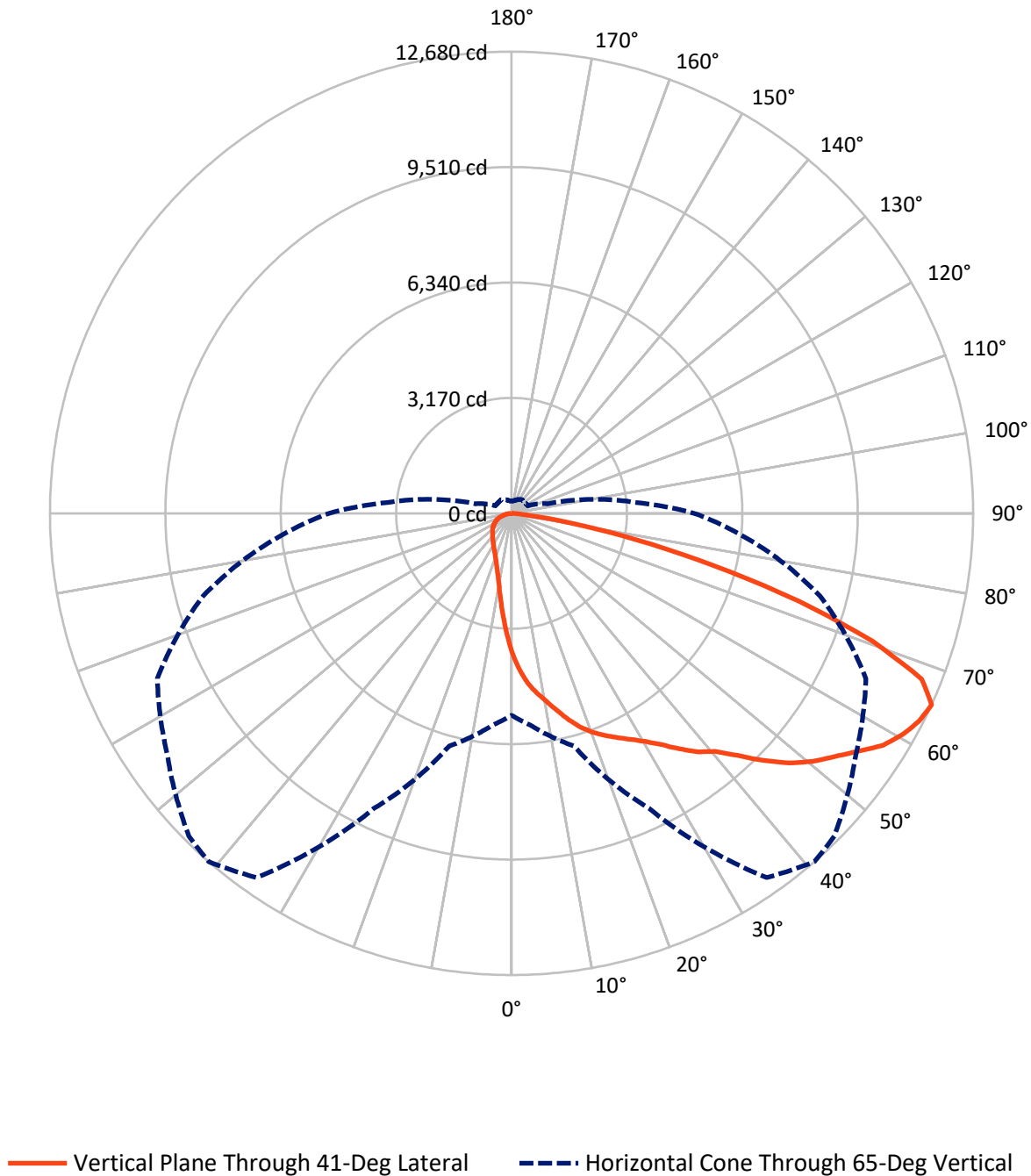


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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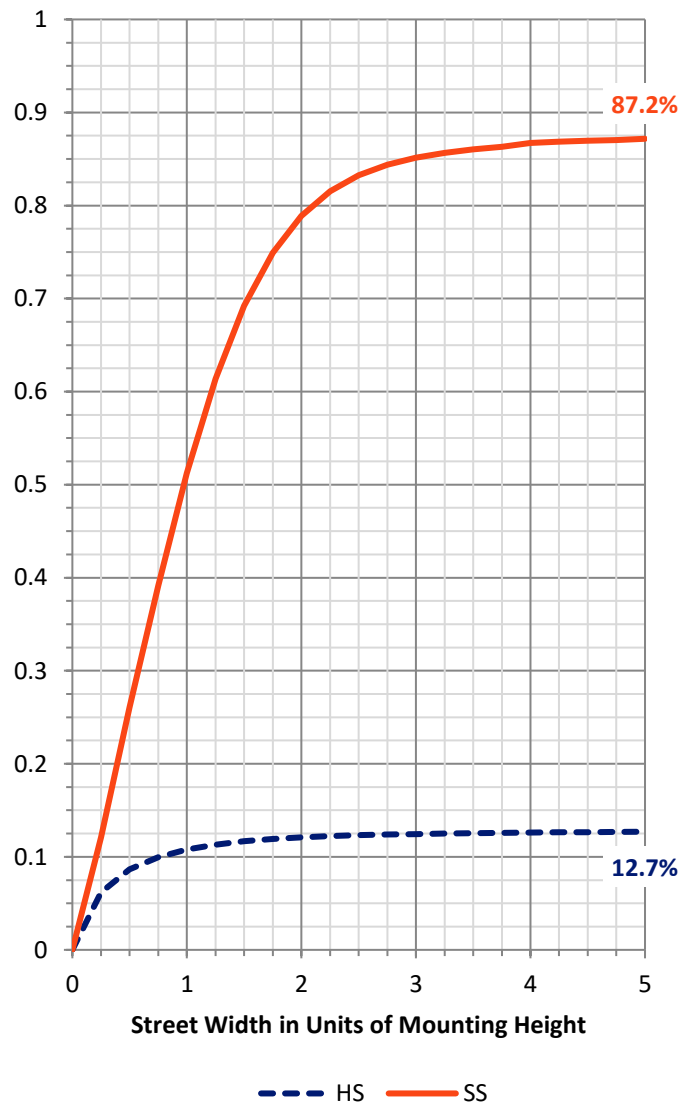
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2912.9	0.0	2912.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	19776.1	0.0	19776.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	22689.0	0.0	22689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.2	1.6
10°-20°	1080.1	4.8
20°-30°	1858.2	8.2
30°-40°	2818.3	12.4
40°-50°	4128.9	18.2
50°-60°	5213.9	23.0
60°-70°	4889.0	21.5
70°-80°	2179.0	9.6
80°-90°	161.4	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°	22689.0	100.0
0°-180°	22689.0	100.0

Coefficient of Utilization



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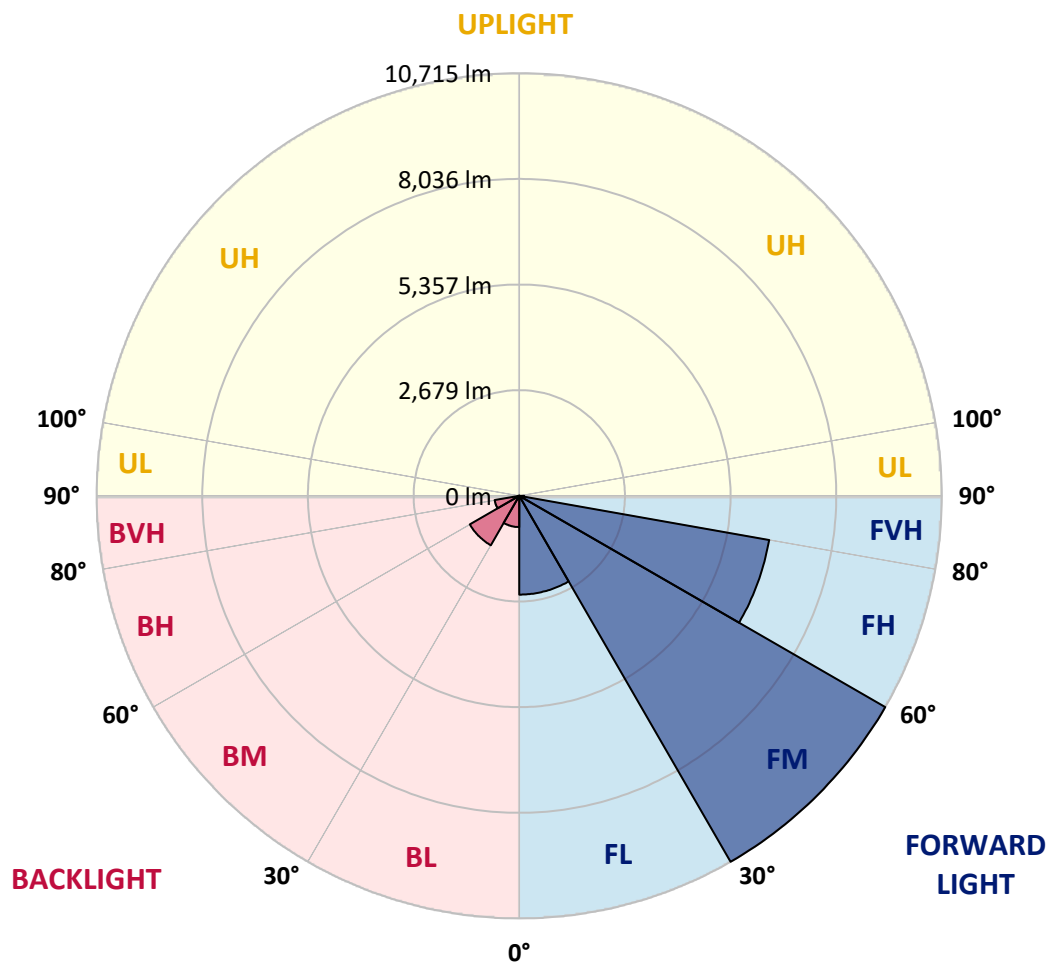
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2505.7	11.0			
FM	(30°-60°)	10714.6	47.2			
FH	(60°-80°)	6435.2	28.4			G3/7500
FVH	(80°-90°)	120.6	0.5			G2/225
BL	(0°-30°)	792.9	3.5	B2/1000		
BM	(30°-60°)	1446.4	6.4	B2/2500		
BH	(60°-80°)	632.8	2.8	B2/1000		G2/1000
BVH	(80°-90°)	40.9	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°	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1
2.5°	4459.4	4445.0	4435.5	4382.8	4382.8	4311.1	4315.9	4248.9	4167.5	4038.3	3899.6
5°	4880.5	4861.3	4837.4	4784.8	4765.6	4693.9	4684.3	4588.6	4449.8	4224.9	3976.1
7.5°	5248.9	5229.7	5196.3	5119.7	5067.1	4980.9	4957.0	4832.6	4679.5	4402.0	4052.7
10°	5583.8	5569.5	5526.4	5430.7	5358.9	5253.7	5210.6	5043.1	4851.7	4545.5	4114.9
12.5°	5923.5	5904.4	5847.0	5765.6	5679.5	5555.1	5502.5	5287.2	5043.1	4703.4	4205.8
15°	6239.3	6210.6	6167.6	6081.4	6004.9	5885.3	5827.8	5574.2	5277.6	4880.5	4325.4
17.5°	6445.1	6421.1	6382.9	6335.0	6272.8	6181.9	6124.5	5875.7	5512.0	5052.7	4449.8
20°	6569.5	6559.9	6545.6	6516.8	6488.1	6425.9	6382.9	6148.4	5765.6	5220.2	4569.4
22.5°	6665.2	6655.6	6650.8	6650.8	6655.6	6631.7	6603.0	6402.0	6009.7	5397.2	4679.5
25°	6813.5	6808.7	6799.1	6789.6	6823.1	6827.9	6818.3	6679.5	6315.9	5631.7	4818.3
27.5°	7019.2	7004.9	6985.8	6976.2	7009.7	7033.6	7052.7	6957.0	6641.2	5870.9	4976.2
30°	7335.0	7292.0	7244.1	7210.6	7234.6	7272.8	7315.9	7258.5	6976.2	6167.6	5138.8
32.5°	7708.3	7655.6	7545.6	7483.4	7545.6	7574.3	7607.8	7579.1	7325.5	6488.1	5301.5
35°	8162.8	8100.6	7985.8	7894.9	8004.9	7942.7	7928.3	7899.6	7655.6	6803.9	5483.3
37.5°	8918.8	8827.9	8646.1	8445.1	8445.1	8311.1	8258.5	8172.4	7952.3	7086.2	5660.4
40°	9794.4	9674.8	9440.3	9143.7	8870.9	8593.4	8559.9	8497.7	8301.6	7411.6	5861.3
42.5°	10756.1	10526.5	10201.1	9842.3	9402.1	9086.3	9009.7	8832.7	8641.3	7741.7	6062.3
45°	11823.1	11344.7	10871.0	10689.2	9961.9	9674.8	9531.2	9210.7	8995.4	8086.2	6272.8
47.5°	11995.4	11622.2	11306.4	11277.7	10483.4	10244.2	10081.5	9622.2	9378.1	8454.7	6492.9
50°	11899.7	11674.8	11708.3	11593.5	10866.2	10708.3	10583.9	10062.4	9756.1	8808.7	6693.9
52.5°	11497.8	11622.2	11813.6	11603.0	11229.8	11100.6	11038.4	10536.0	10110.2	9134.1	6875.7
55°	11019.3	11105.4	11516.9	11775.3	11650.9	11536.1	11478.6	11086.3	10459.5	9406.8	7043.2
57.5°	10320.7	10282.5	10737.0	11746.6	12091.1	12024.1	11961.9	11627.0	10784.9	9603.0	7148.4
60°	9272.9	9191.5	9765.7	11172.4	12234.6	12339.9	12311.2	11985.8	11033.7	9598.2	7105.4
62.5°	7459.4	7660.4	8454.7	10234.6	12296.8	12564.8	12512.2	12014.5	11115.0	9320.7	6832.6
65°	5545.5	5832.6	6612.5	8942.7	12210.7	12679.6	12536.1	11545.6	10737.0	8770.5	6234.5
67.5°	3995.3	4248.9	4818.3	7359.0	11382.9	12153.3	11985.8	10780.1	9866.2	7990.6	5406.8
70°	2732.1	2913.9	3301.5	5358.9	9717.8	10507.3	10402.1	9636.5	8493.0	7062.3	4392.4
72.5°	1928.3	2004.8	2253.6	3535.9	7382.9	8244.1	8119.7	7928.3	6823.1	5870.9	3416.3
75°	1445.0	1492.8	1626.8	2287.1	4980.9	5713.0	5598.2	5708.2	5095.8	4445.0	2488.1
77.5°	545.5	593.3	923.5	1459.4	2947.4	3507.2	3392.4	3459.4	2832.6	2244.1	1239.3
80°	148.3	157.9	306.2	693.8	1339.7	1746.4	1588.5	1363.7	1052.6	1033.5	655.5
82.5°	62.2	71.8	138.8	373.2	478.5	478.5	401.9	497.6	401.9	483.3	315.8
85°	23.9	28.7	33.5	95.7	62.2	67.0	71.8	95.7	81.3	100.5	71.8
87.5°	0.0	0.0	0.0	4.8	4.8	9.6	4.8	9.6	14.4	14.4	14.4
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°	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1	3866.1
2.5°	3842.2	3789.5	3713.0	3588.6	3459.4	3387.6	3296.7	3282.3	3186.7	3177.1	3138.8
5°	3866.1	3756.0	3559.9	3320.6	3086.2	2904.3	2770.4	2698.6	2559.8	2559.8	2521.6
7.5°	3885.2	3713.0	3397.2	3043.1	2722.5	2478.5	2296.7	2220.1	2095.7	2086.2	2057.4
10°	3890.0	3660.3	3220.1	2760.8	2368.5	2119.6	1942.6	1856.5	1746.4	1736.9	1717.7
12.5°	3928.3	3631.6	3062.2	2516.8	2114.9	1846.9	1674.7	1602.9	1516.8	1507.2	1488.1
15°	3990.5	3631.6	2928.3	2311.0	1890.0	1641.2	1492.8	1425.9	1363.7	1354.1	1344.5
17.5°	4052.7	3622.1	2794.3	2119.6	1703.4	1478.5	1349.3	1296.7	1248.8	1244.0	1234.5
20°	4110.1	3617.3	2660.3	1957.0	1559.8	1344.5	1244.0	1196.2	1157.9	1157.9	1153.1
22.5°	4167.5	3607.7	2531.1	1803.9	1435.4	1244.0	1157.9	1105.3	1076.6	1076.6	1071.8
25°	4253.7	3607.7	2411.5	1674.7	1334.9	1167.5	1081.4	1043.1	1019.2	1014.4	1014.4
27.5°	4354.1	3636.4	2306.3	1559.8	1248.8	1090.9	1023.9	985.7	957.0	947.4	952.2
30°	4464.2	3660.3	2210.6	1459.4	1167.5	1033.5	961.7	923.5	894.8	885.2	890.0
32.5°	4574.2	3689.1	2124.4	1368.4	1086.1	980.9	909.1	866.0	837.3	832.5	832.5
35°	4693.9	3717.8	2038.3	1291.9	1019.2	928.2	861.3	813.4	794.3	784.7	789.5
37.5°	4813.5	3765.6	1957.0	1220.1	971.3	880.4	818.2	770.3	756.0	751.2	751.2
40°	4957.0	3837.4	1923.5	1172.3	928.2	837.3	784.7	736.9	722.5	722.5	722.5
42.5°	5076.6	3894.8	1894.8	1119.6	894.8	799.1	751.2	712.9	703.4	698.6	703.4
45°	5196.3	3947.4	1856.5	1071.8	851.7	760.8	722.5	684.2	674.7	674.7	674.7
47.5°	5315.9	3976.1	1803.9	1023.9	813.4	727.3	693.8	660.3	650.7	650.7	650.7
50°	5411.6	4000.1	1727.3	971.3	770.3	698.6	665.1	631.6	622.0	622.0	622.0
52.5°	5507.3	4004.8	1646.0	909.1	727.3	665.1	636.4	602.9	593.3	588.5	588.5
55°	5593.4	4000.1	1550.3	837.3	679.4	626.8	602.9	574.2	555.0	535.9	545.5
57.5°	5655.6	3995.3	1440.2	765.6	631.6	588.5	579.0	540.7	502.4	454.6	464.1
60°	5631.7	3942.6	1320.6	674.7	579.0	550.2	550.2	497.6	430.6	406.7	411.5
62.5°	5478.6	3794.3	1196.2	579.0	526.3	512.0	507.2	449.8	397.1	373.2	378.0
65°	5019.2	3421.1	1014.4	492.8	473.7	468.9	468.9	416.3	368.4	339.7	344.5
67.5°	4320.6	2870.9	827.8	416.3	421.1	430.6	430.6	382.8	334.9	306.2	311.0
70°	3464.2	2244.1	660.3	358.9	363.6	378.0	387.6	344.5	301.4	272.7	272.7
72.5°	2607.7	1703.4	531.1	301.4	325.4	325.4	339.7	306.2	263.2	234.5	239.2
75°	1890.0	1220.1	421.1	253.6	282.3	277.5	277.5	258.4	224.9	205.7	205.7
77.5°	894.8	641.2	334.9	181.8	220.1	215.3	220.1	205.7	191.4	172.3	177.0
80°	440.2	315.8	215.3	129.2	153.1	157.9	172.3	162.7	157.9	143.5	143.5
82.5°	210.5	124.4	100.5	90.9	105.3	110.0	119.6	119.6	124.4	114.8	114.8
85°	57.4	33.5	43.1	57.4	67.0	71.8	81.3	86.1	86.1	81.3	86.1
87.5°	14.4	14.4	19.1	28.7	33.5	38.3	43.1	43.1	19.1	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)