

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: P841698

Luminaire Tested: **ARCH4-210-750-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23057 lumens
Efficiency: N/A
Efficacy: 108.2 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

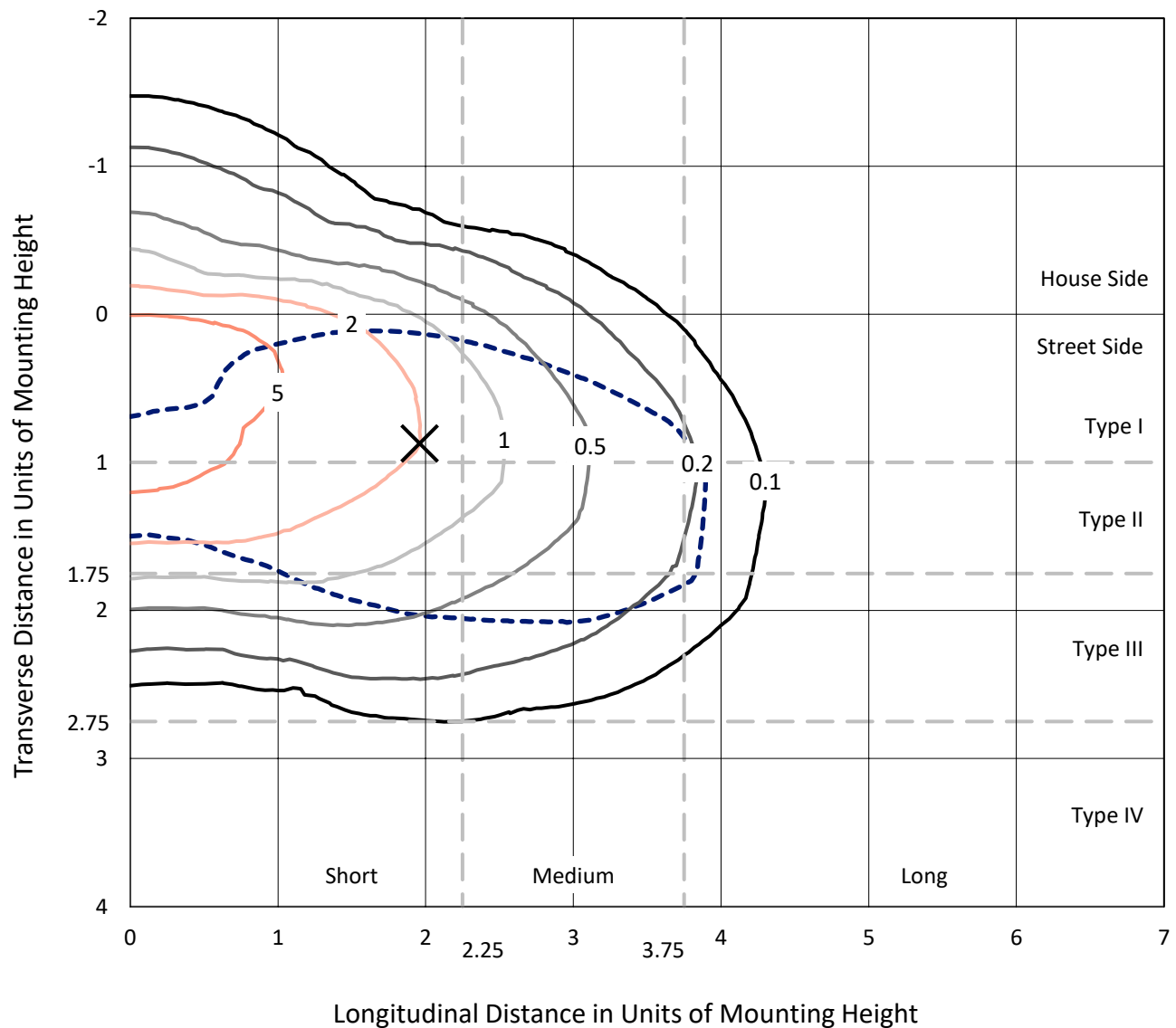


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Iso-Footcandle Lines of Horizontal Illumination

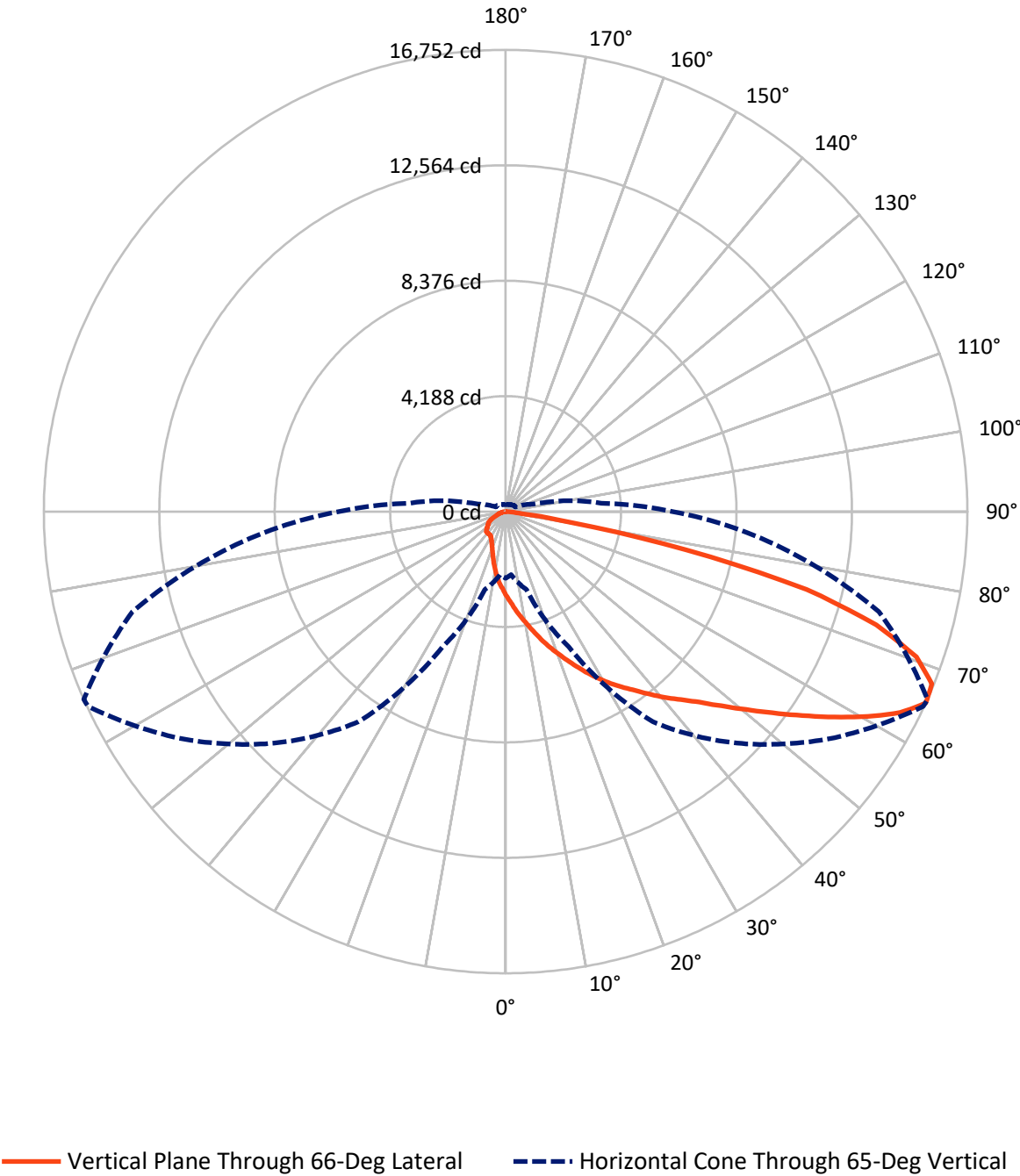
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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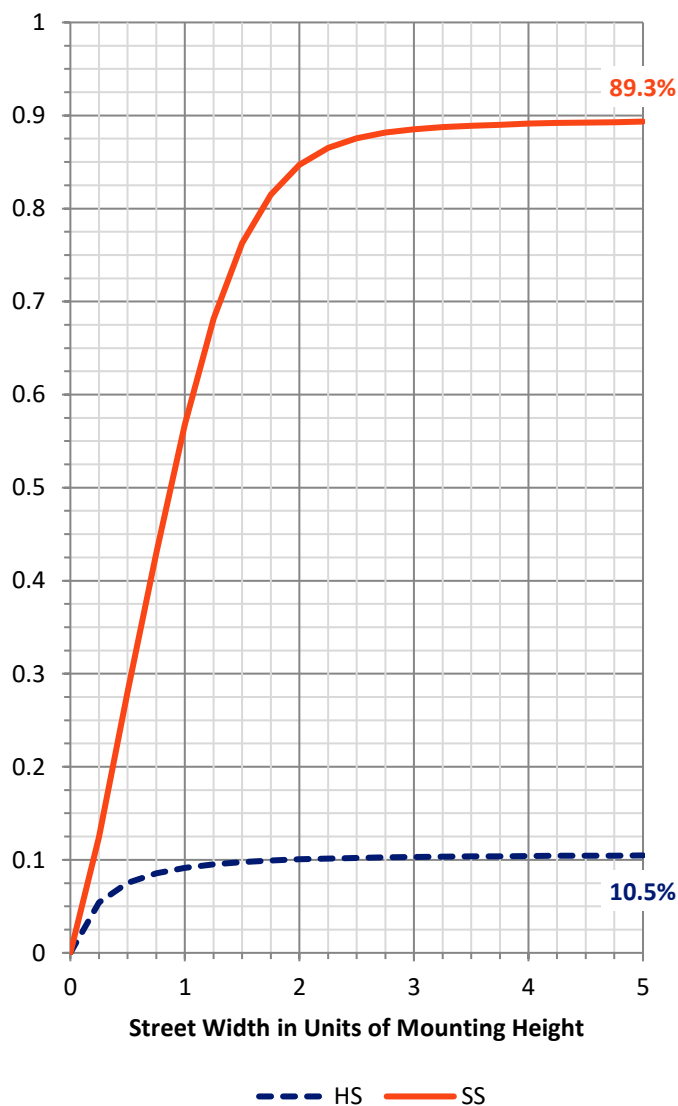
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2438.8	0.0	2438.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	20618.2	0.0	20618.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	23057.0	0.0	23057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.2	1.3
10°-20°	981.6	4.3
20°-30°	1776.1	7.7
30°-40°	2777.3	12.0
40°-50°	4213.2	18.3
50°-60°	5353.0	23.2
60°-70°	5001.8	21.7
70°-80°	2485.9	10.8
80°-90°	167.0	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°	23057.0	100.0
0°-180°	23057.0	100.0

Coefficient of Utilization



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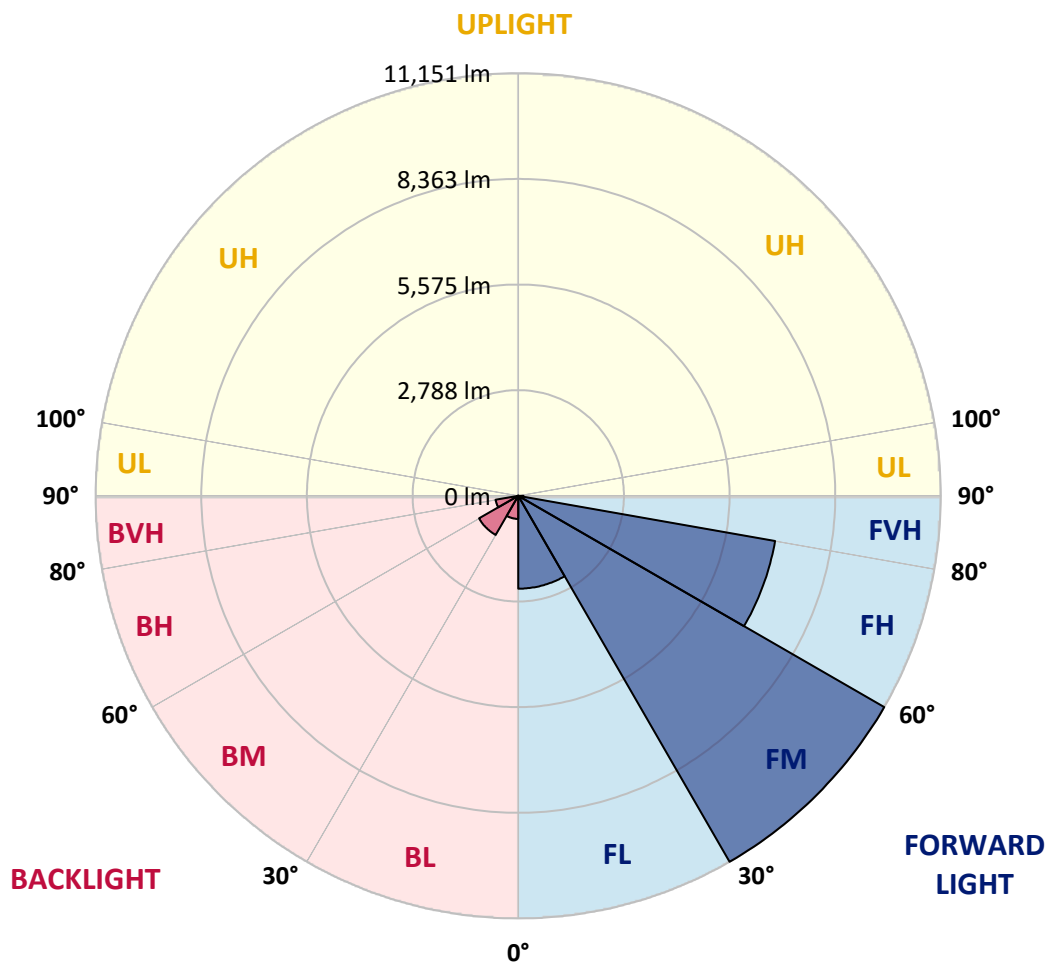
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2449.8	10.6			
FM	(30°-60°)	11150.6	48.4			
FH	(60°-80°)	6880.3	29.8			G3/7500
FVH	(80°-90°)	137.4	0.6			G2/225
BL	(0°-30°)	609.1	2.6	B2/1000		
BM	(30°-60°)	1192.8	5.2	B2/2500		
BH	(60°-80°)	607.3	2.6	B2/1000		G2/1000
BVH	(80°-90°)	29.6	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5
2.5°	3564.1	3593.1	3607.6	3612.4	3501.2	3452.8	3404.5	3293.3	3269.1	3206.2	3124.0
5°	4192.7	4231.4	4221.8	4202.4	4067.0	3912.3	3786.5	3578.6	3544.7	3394.8	3211.1
7.5°	4811.7	4845.6	4835.9	4763.4	4613.5	4395.9	4187.9	3883.2	3834.9	3593.1	3298.1
10°	5329.2	5358.2	5353.4	5280.8	5101.9	4835.9	4584.5	4178.2	4120.2	3776.9	3370.6
12.5°	5754.7	5793.4	5788.6	5740.2	5580.7	5290.5	5005.2	4516.8	4444.2	3999.3	3472.2
15°	6088.4	6136.8	6136.8	6117.4	6006.2	5764.4	5440.4	4889.1	4802.1	4255.6	3597.9
17.5°	6291.5	6330.2	6364.1	6397.9	6320.6	6136.8	5841.8	5261.5	5169.6	4507.1	3728.5
20°	6397.9	6436.6	6460.8	6533.3	6547.8	6456.0	6223.8	5629.0	5532.3	4792.4	3878.4
22.5°	6572.0	6605.9	6610.7	6673.6	6702.6	6726.8	6581.7	5991.7	5914.3	5106.7	4047.7
25°	6862.2	6900.9	6886.4	6915.4	6920.2	6949.2	6934.7	6407.6	6330.2	5464.6	4250.8
27.5°	7234.5	7282.9	7273.2	7244.2	7200.7	7176.5	7239.4	6828.3	6755.8	5822.5	4458.7
30°	7635.9	7694.0	7679.4	7621.4	7505.4	7403.8	7490.8	7224.9	7157.2	6190.0	4690.8
32.5°	8042.1	8109.8	8105.0	8008.3	7810.0	7635.9	7766.5	7597.2	7548.9	6586.5	4942.3
35°	8308.1	8395.2	8385.5	8327.5	8071.2	7921.2	8080.8	7979.3	7945.4	7070.1	5305.0
37.5°	8738.5	8830.4	8748.2	8603.1	8308.1	8230.7	8424.2	8409.7	8385.5	7582.7	5687.0
40°	9783.1	9918.5	9700.9	9106.0	8622.5	8554.7	8830.4	8888.4	8864.2	8090.5	6030.4
42.5°	10876.0	11079.1	10740.6	9918.5	9193.1	8946.5	9275.3	9357.5	9328.5	8525.7	6339.9
45°	11538.5	11625.6	11287.0	10648.7	10203.8	9420.4	9749.2	9884.6	9860.4	9048.0	6736.4
47.5°	12080.1	12046.3	11659.4	11229.0	11311.2	10087.7	10286.0	10552.0	10532.6	9623.5	7171.7
50°	12196.2	12118.8	11964.1	11693.3	11910.9	10764.8	10851.8	11311.2	11291.9	10261.8	7611.7
52.5°	11378.9	11277.4	11698.1	11925.4	11852.8	11258.0	11475.6	12143.0	12133.3	10953.4	8032.5
55°	9338.2	9256.0	10387.6	11562.7	11790.0	11606.2	12167.2	13008.6	13061.8	11688.4	8414.5
57.5°	7345.8	7258.7	8371.0	10653.5	11557.9	11925.4	12974.8	14000.0	14067.7	12486.4	8777.2
60°	5856.3	5725.7	6576.9	9222.1	11122.6	12172.0	13753.4	15088.1	15097.8	13216.6	8999.7
62.5°	3980.0	3834.9	4777.9	7408.6	10392.4	12210.7	14353.0	16026.2	16064.9	13763.0	9038.3
65°	2418.0	2297.1	2935.4	5411.4	9314.0	11881.9	14362.7	16717.8	16751.6	14014.5	8806.2
67.5°	1402.4	1354.1	1678.1	3370.6	7524.7	10996.9	13758.2	16611.4	16674.3	13908.1	8279.1
70°	817.3	812.4	933.3	1668.4	5309.8	9241.4	12409.0	15716.7	15808.6	13352.0	7471.5
72.5°	599.7	609.3	657.7	894.6	3075.6	6654.2	10508.5	13917.8	14058.0	12263.9	6320.6
75°	473.9	478.8	522.3	609.3	1615.2	3762.3	7872.9	11171.0	11282.2	10324.7	4937.5
77.5°	353.0	362.7	396.5	430.4	749.6	1726.4	4429.7	6881.5	6697.8	5667.7	2384.1
80°	256.3	280.5	295.0	309.5	396.5	667.4	1329.9	2398.6	2379.3	2476.0	1126.8
82.5°	164.4	183.8	198.3	207.9	237.0	319.2	396.5	536.8	580.3	962.3	449.7
85°	72.5	82.2	91.9	111.2	101.6	111.2	164.4	106.4	91.9	145.1	82.2
87.5°	0.0	0.0	14.5	24.2	19.3	9.7	29.0	19.3	14.5	14.5	14.5
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°	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5
2.5°	3080.5	3027.3	2916.1	2809.7	2746.8	2664.6	2592.1	2524.4	2519.5	2500.2	2466.3
5°	3119.2	3017.6	2809.7	2611.4	2461.5	2301.9	2166.5	2060.1	2021.4	1992.4	1953.7
7.5°	3157.9	2998.3	2688.8	2398.6	2161.7	1939.2	1779.6	1634.5	1591.0	1552.3	1528.2
10°	3172.4	2964.4	2548.5	2161.7	1852.2	1615.2	1445.9	1339.6	1300.9	1281.5	1267.0
12.5°	3215.9	2945.1	2418.0	1939.2	1581.3	1363.7	1242.8	1180.0	1165.5	1150.9	1136.4
15°	3273.9	2945.1	2287.4	1721.6	1368.6	1194.5	1121.9	1078.4	1068.7	1063.9	1054.2
17.5°	3336.8	2945.1	2161.7	1537.8	1213.8	1083.2	1030.1	1005.9	1001.0	996.2	991.4
20°	3423.8	2949.9	2026.3	1378.2	1102.6	1001.0	957.5	928.5	923.7	918.8	918.8
22.5°	3510.9	2959.6	1895.7	1257.3	1030.1	938.2	885.0	856.0	846.3	846.3	846.3
25°	3622.1	2988.6	1774.8	1155.8	967.2	880.1	812.4	788.3	783.4	783.4	778.6
27.5°	3752.7	3022.5	1668.4	1078.4	904.3	812.4	744.7	720.6	710.9	710.9	706.0
30°	3892.9	3056.3	1581.3	1020.4	841.5	744.7	681.9	652.8	643.2	648.0	643.2
32.5°	4047.7	3104.7	1513.6	981.7	783.4	686.7	628.7	594.8	590.0	590.0	585.1
35°	4308.8	3240.1	1504.0	962.3	735.1	643.2	585.1	551.3	546.5	546.5	541.6
37.5°	4589.3	3394.8	1547.5	952.7	696.4	604.5	551.3	517.4	512.6	512.6	512.6
40°	4826.3	3510.9	1595.9	952.7	672.2	570.6	522.3	493.3	493.3	493.3	493.3
42.5°	4985.8	3520.6	1586.2	952.7	652.8	546.5	502.9	473.9	473.9	478.8	473.9
45°	5222.8	3568.9	1547.5	938.2	638.3	527.1	483.6	459.4	454.6	459.4	459.4
47.5°	5503.3	3656.0	1508.8	880.1	633.5	507.8	469.1	440.1	435.2	440.1	435.2
50°	5769.3	3733.3	1489.5	802.8	623.8	488.4	449.7	420.7	415.9	420.7	415.9
52.5°	5991.7	3767.2	1455.6	749.6	599.7	469.1	430.4	401.4	391.7	396.5	396.5
55°	6170.6	3757.5	1407.3	706.0	556.1	449.7	406.2	382.0	367.5	367.5	362.7
57.5°	6335.1	3762.3	1363.7	662.5	507.8	420.7	386.9	357.9	338.5	333.7	328.8
60°	6397.9	3738.2	1286.4	604.5	459.4	396.5	362.7	328.8	309.5	304.7	299.8
62.5°	6310.9	3651.1	1184.8	502.9	415.9	367.5	338.5	304.7	285.3	280.5	275.6
65°	6064.2	3486.7	1030.1	396.5	377.2	333.7	309.5	285.3	261.1	251.5	246.6
67.5°	5643.5	3249.7	836.6	319.2	333.7	304.7	290.2	261.1	232.1	222.5	217.6
70°	5043.9	2935.4	628.7	270.8	295.0	270.8	261.1	232.1	207.9	198.3	193.4
72.5°	4202.4	2427.6	440.1	232.1	256.3	237.0	227.3	207.9	183.8	169.3	169.3
75°	3177.2	1740.9	290.2	198.3	212.8	203.1	188.6	174.1	159.6	149.9	145.1
77.5°	1368.6	677.0	178.9	149.9	174.1	169.3	149.9	140.2	135.4	125.7	125.7
80°	590.0	275.6	111.2	111.2	125.7	120.9	116.1	106.4	106.4	101.6	96.7
82.5°	217.6	111.2	67.7	82.2	91.9	82.2	82.2	82.2	82.2	77.4	77.4
85°	53.2	33.9	33.9	48.4	53.2	48.4	53.2	48.4	48.4	48.4	43.5
87.5°	14.5	14.5	19.3	19.3	19.3	19.3	19.3	14.5	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)