

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: P841889

Luminaire Tested: **ARCH4-240-730-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841889
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: ARCH4-240-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 940mA 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: 24700 lumens
Efficiency: N/A
Efficacy: 102.8 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): 240.2
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



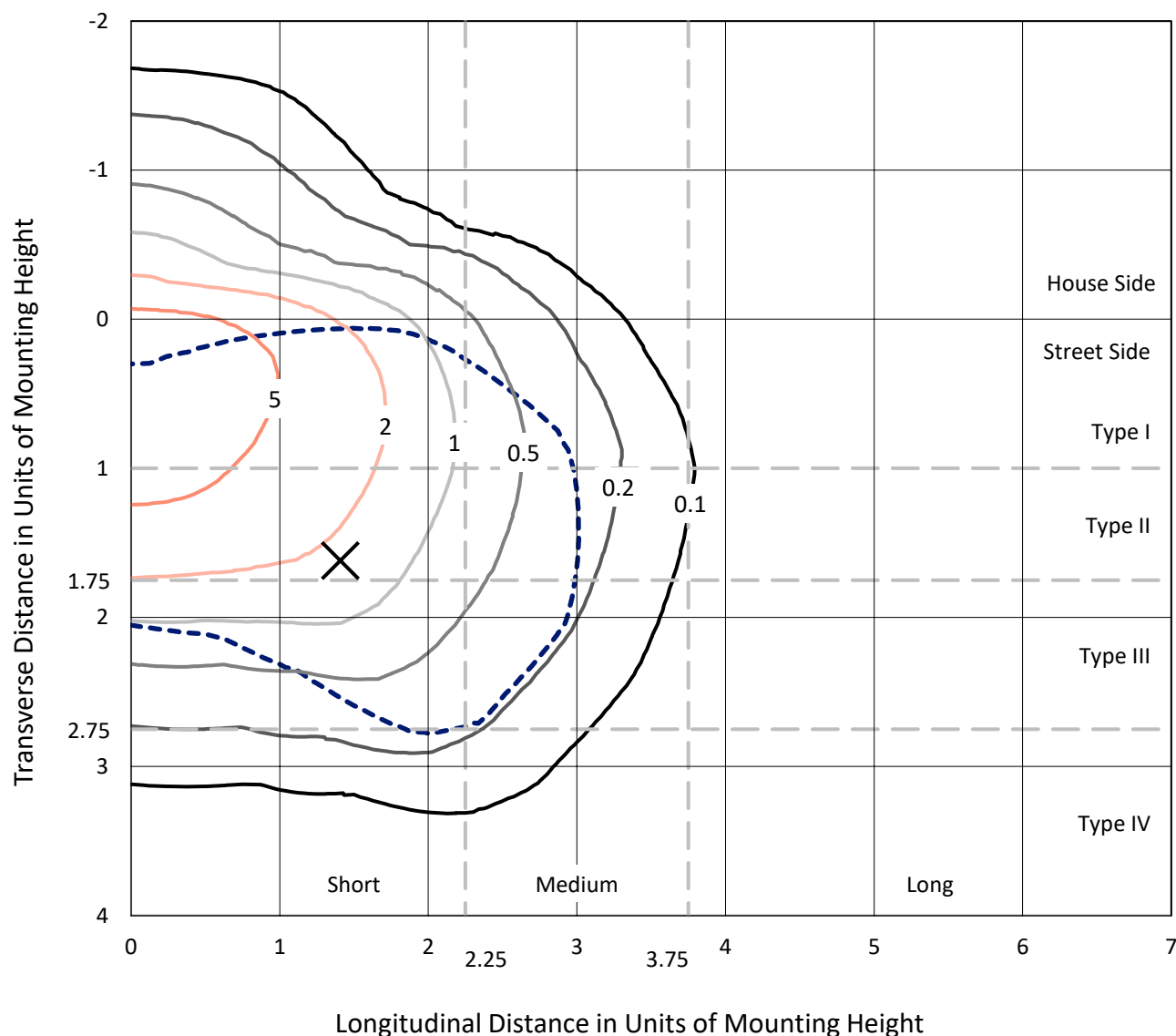
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

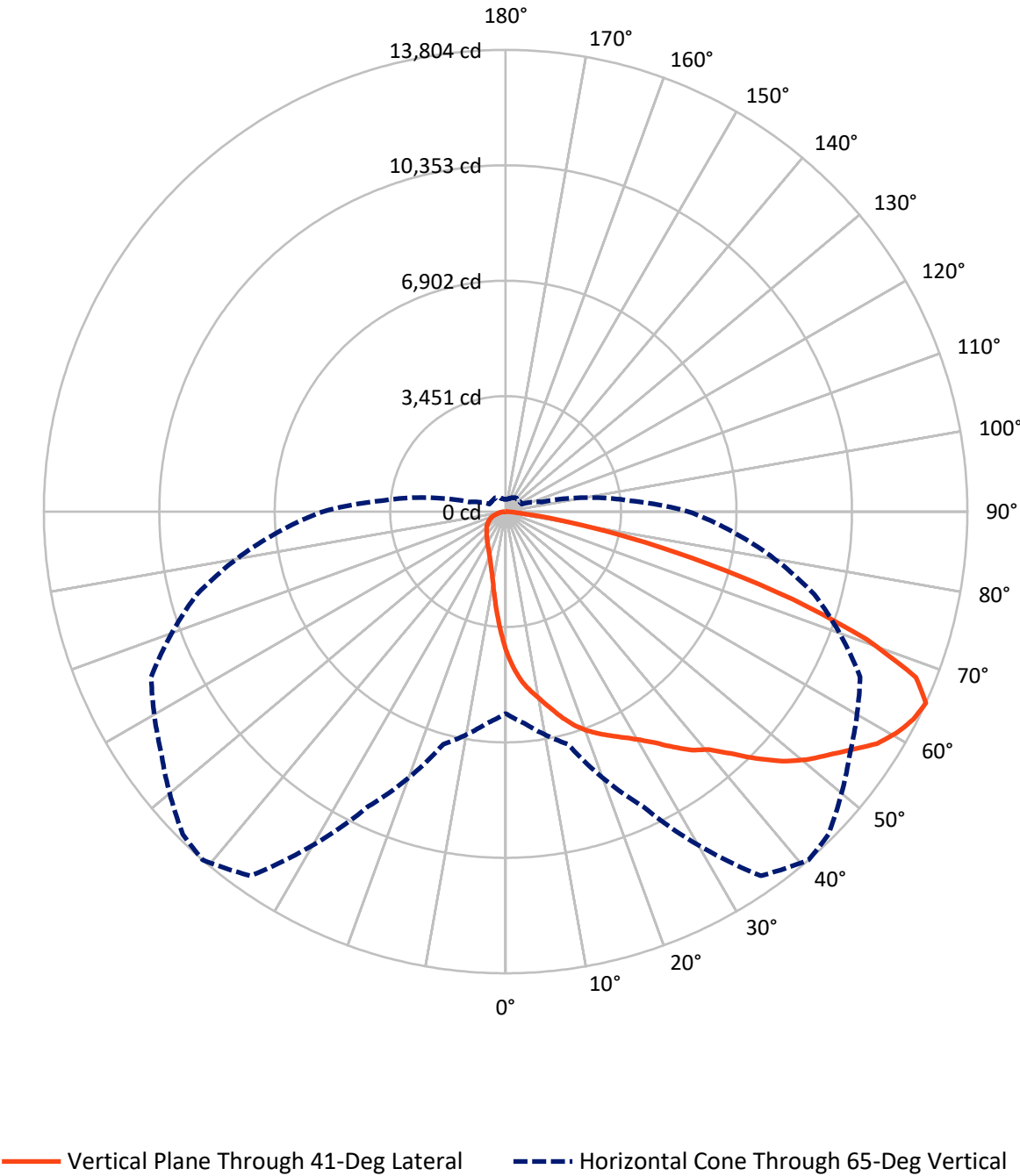


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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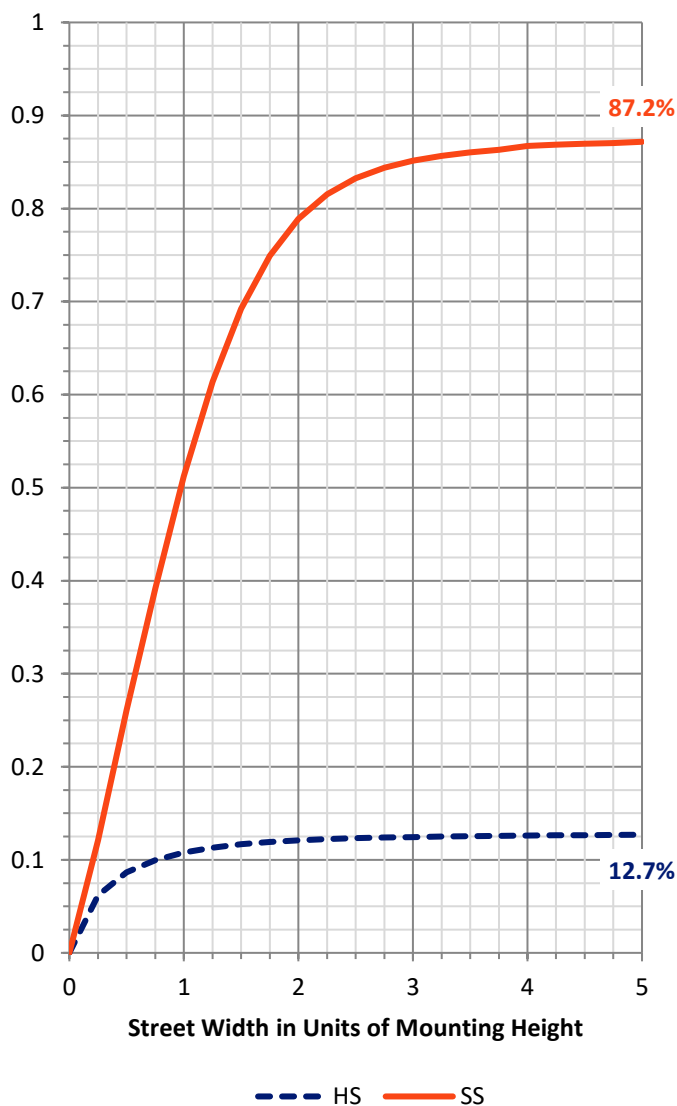
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3171.1	0.0	3171.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	21528.9	0.0	21528.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	24700.0	0.0	24700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.1	1.6
10°-20°	1175.9	4.8
20°-30°	2022.9	8.2
30°-40°	3068.1	12.4
40°-50°	4494.8	18.2
50°-60°	5676.0	23.0
60°-70°	5322.3	21.5
70°-80°	2372.1	9.6
80°-90°	175.7	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°	24700.0	100.0
0°-180°	24700.0	100.0

Coefficient of Utilization



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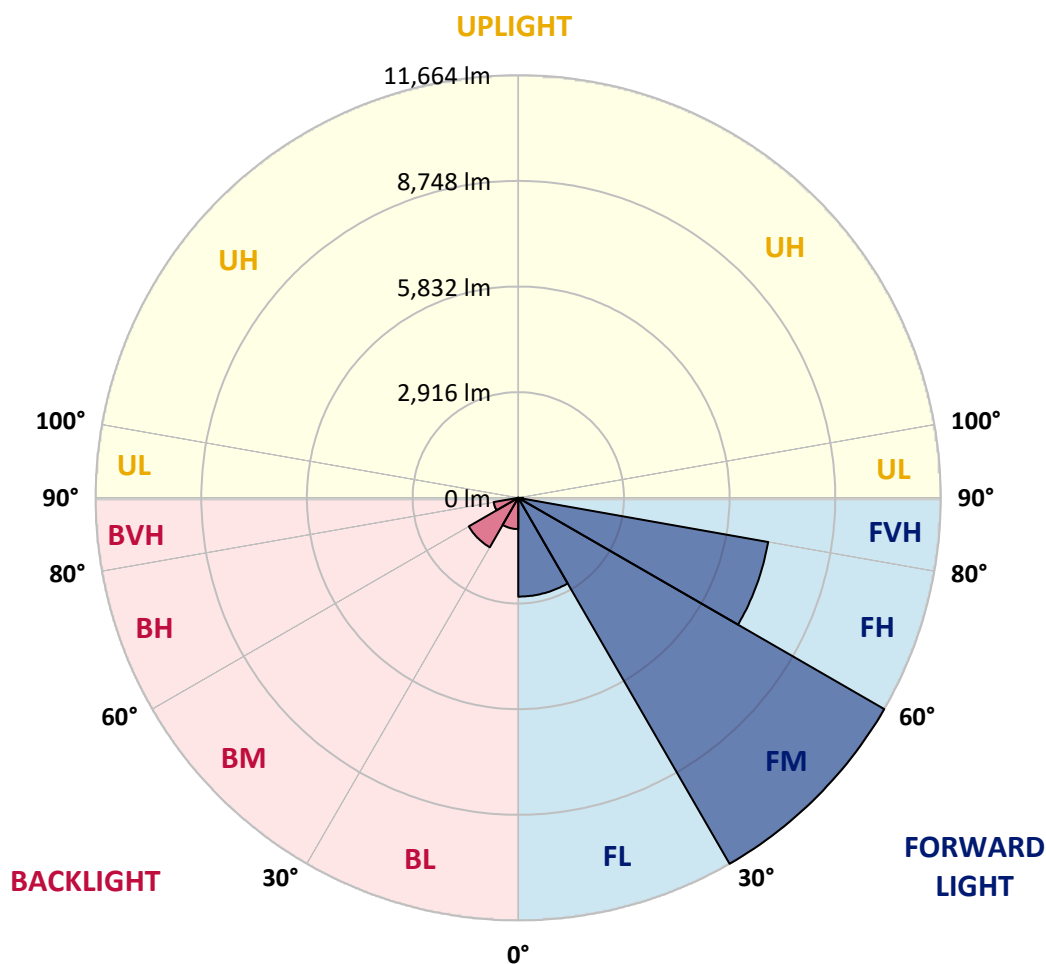
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2727.8	11.0			
FM	(30°-60°)	11664.3	47.2			
FH	(60°-80°)	7005.6	28.4			G3/7500
FVH	(80°-90°)	131.2	0.5			G2/225
BL	(0°-30°)	863.1	3.5	B2/1000		
BM	(30°-60°)	1574.6	6.4	B2/2500		
BH	(60°-80°)	688.9	2.8	B2/1000		G2/1000
BVH	(80°-90°)	44.5	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°	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8
2.5°	4854.6	4839.0	4828.6	4771.3	4771.3	4693.2	4698.4	4625.5	4536.9	4396.3	4245.2
5°	5313.0	5292.2	5266.1	5208.9	5188.0	5109.9	5099.5	4995.3	4844.2	4599.4	4328.6
7.5°	5714.1	5693.3	5656.8	5573.5	5516.2	5422.4	5396.4	5260.9	5094.3	4792.1	4411.9
10°	6078.7	6063.1	6016.2	5912.0	5833.9	5719.3	5672.4	5490.1	5281.8	4948.4	4479.6
12.5°	6448.6	6427.7	6365.2	6276.7	6182.9	6047.5	5990.2	5755.8	5490.1	5120.3	4578.6
15°	6792.3	6761.1	6714.2	6620.4	6537.1	6406.9	6344.4	6068.3	5745.4	5313.0	4708.8
17.5°	7016.3	6990.3	6948.6	6896.5	6828.8	6729.8	6667.3	6396.5	6000.6	5500.5	4844.2
20°	7151.8	7141.3	7125.7	7094.5	7063.2	6995.5	6948.6	6693.4	6276.7	5682.9	4974.5
22.5°	7255.9	7245.5	7240.3	7240.3	7245.5	7219.5	7188.2	6969.4	6542.3	5875.6	5094.3
25°	7417.4	7412.2	7401.8	7391.4	7427.8	7433.0	7422.6	7271.6	6875.7	6130.8	5245.3
27.5°	7641.4	7625.8	7604.9	7594.5	7631.0	7657.0	7677.8	7573.7	7229.9	6391.3	5417.2
30°	7985.2	7938.3	7886.2	7849.7	7875.8	7917.5	7964.3	7901.8	7594.5	6714.2	5594.3
32.5°	8391.5	8334.2	8214.4	8146.6	8214.4	8245.6	8282.1	8250.8	7974.7	7063.2	5771.4
35°	8886.3	8818.6	8693.6	8594.6	8714.4	8646.7	8631.1	8599.8	8334.2	7407.0	5969.3
37.5°	9709.3	9610.3	9412.4	9193.6	9193.6	9047.8	8990.5	8896.7	8657.1	7714.3	6162.1
40°	10662.5	10532.3	10277.1	9954.1	9657.2	9355.1	9318.6	9250.9	9037.4	8068.5	6380.8
42.5°	11709.5	11459.5	11105.3	10714.6	10235.4	9891.6	9808.3	9615.5	9407.2	8427.9	6599.6
45°	12871.1	12350.2	11834.5	11636.6	10844.8	10532.3	10376.0	10027.0	9792.6	8803.0	6828.8
47.5°	13058.6	12652.3	12308.5	12277.3	11412.6	11152.1	10975.0	10475.0	10209.3	9204.0	7068.4
50°	12954.4	12709.6	12746.1	12621.0	11829.3	11657.4	11522.0	10954.2	10620.8	9589.5	7287.2
52.5°	12516.9	12652.3	12860.7	12631.5	12225.2	12084.5	12016.8	11469.9	11006.3	9943.7	7485.1
55°	11996.0	12089.7	12537.7	12819.0	12683.5	12558.5	12496.0	12068.9	11386.5	10240.6	7667.4
57.5°	11235.5	11193.8	11688.7	12787.7	13162.8	13089.8	13022.1	12657.5	11740.7	10454.2	7782.0
60°	10094.8	10006.2	10631.3	12162.7	13319.0	13433.6	13402.4	13048.2	12011.6	10449.0	7735.1
62.5°	8120.6	8339.4	9204.0	11141.7	13386.7	13678.4	13621.1	13079.4	12100.2	10146.8	7438.2
65°	6037.1	6349.6	7198.6	9735.3	13293.0	13803.5	13647.2	12569.0	11688.7	9547.8	6787.1
67.5°	4349.4	4625.5	5245.3	8011.2	12391.9	13230.5	13048.2	11735.5	10740.6	8698.8	5886.0
70°	2974.3	3172.2	3594.1	5833.9	10579.2	11438.6	11324.0	10490.6	9245.7	7688.3	4781.7
72.5°	2099.2	2182.5	2453.4	3849.3	8037.3	8974.8	8839.4	8631.1	7427.8	6391.3	3719.1
75°	1573.1	1625.2	1771.0	2489.8	5422.4	6219.4	6094.4	6214.2	5547.4	4839.0	2708.6
77.5°	593.8	645.9	1005.3	1588.7	3208.7	3818.1	3693.1	3766.0	3083.6	2443.0	1349.1
80°	161.5	171.9	333.4	755.3	1458.5	1901.2	1729.3	1484.5	1145.9	1125.1	713.6
82.5°	67.7	78.1	151.1	406.3	520.9	520.9	437.5	541.7	437.5	526.1	343.8
85°	26.0	31.3	36.5	104.2	67.7	72.9	78.1	104.2	88.6	109.4	78.1
87.5°	0.0	0.0	0.0	5.2	5.2	10.4	5.2	10.4	15.6	15.6	15.6
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°	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8
2.5°	4182.7	4125.4	4042.1	3906.6	3766.0	3687.9	3588.9	3573.3	3469.1	3458.7	3417.0
5°	4208.8	4088.9	3875.4	3614.9	3359.7	3161.8	3015.9	2937.8	2786.7	2786.7	2745.1
7.5°	4229.6	4042.1	3698.3	3312.8	2963.8	2698.2	2500.2	2416.9	2281.5	2271.1	2239.8
10°	4234.8	3984.8	3505.6	3005.5	2578.4	2307.5	2114.8	2021.0	1901.2	1890.8	1870.0
12.5°	4276.5	3953.5	3333.7	2739.9	2302.3	2010.6	1823.1	1745.0	1651.2	1640.8	1620.0
15°	4344.2	3953.5	3187.8	2515.9	2057.5	1786.6	1625.2	1552.2	1484.5	1474.1	1463.7
17.5°	4411.9	3943.1	3042.0	2307.5	1854.4	1609.5	1468.9	1411.6	1359.5	1354.3	1343.9
20°	4474.4	3937.9	2896.1	2130.4	1698.1	1463.7	1354.3	1302.2	1260.5	1260.5	1255.3
22.5°	4536.9	3927.5	2755.5	1963.7	1562.7	1354.3	1260.5	1203.2	1172.0	1172.0	1166.8
25°	4630.7	3927.5	2625.3	1823.1	1453.3	1271.0	1177.2	1135.5	1109.5	1104.3	1104.3
27.5°	4740.1	3958.7	2510.7	1698.1	1359.5	1187.6	1114.7	1073.0	1041.8	1031.4	1036.6
30°	4859.9	3984.8	2406.5	1588.7	1271.0	1125.1	1047.0	1005.3	974.1	963.6	968.8
32.5°	4979.7	4016.0	2312.7	1489.7	1182.4	1067.8	989.7	942.8	911.5	906.3	906.3
35°	5109.9	4047.3	2219.0	1406.4	1109.5	1010.5	937.6	885.5	864.7	854.3	859.5
37.5°	5240.1	4099.4	2130.4	1328.3	1057.4	958.4	890.7	838.6	823.0	817.8	817.8
40°	5396.4	4177.5	2094.0	1276.2	1010.5	911.5	854.3	802.2	786.5	786.5	786.5
42.5°	5526.6	4240.0	2062.7	1218.9	974.1	869.9	817.8	776.1	765.7	760.5	765.7
45°	5656.8	4297.3	2021.0	1166.8	927.2	828.2	786.5	744.9	734.4	734.4	734.4
47.5°	5787.0	4328.6	1963.7	1114.7	885.5	791.7	755.3	718.8	708.4	708.4	708.4
50°	5891.2	4354.6	1880.4	1057.4	838.6	760.5	724.0	687.6	677.2	677.2	677.2
52.5°	5995.4	4359.8	1791.8	989.7	791.7	724.0	692.8	656.3	645.9	640.7	640.7
55°	6089.1	4354.6	1687.7	911.5	739.7	682.4	656.3	625.1	604.2	583.4	593.8
57.5°	6156.9	4349.4	1567.9	833.4	687.6	640.7	630.3	588.6	546.9	494.8	505.3
60°	6130.8	4292.1	1437.6	734.4	630.3	599.0	599.0	541.7	468.8	442.8	448.0
62.5°	5964.1	4130.6	1302.2	630.3	573.0	557.3	552.1	489.6	432.3	406.3	411.5
65°	5464.1	3724.3	1104.3	536.5	515.7	510.5	510.5	453.2	401.1	369.8	375.0
67.5°	4703.6	3125.3	901.1	453.2	458.4	468.8	468.8	416.7	364.6	333.4	338.6
70°	3771.2	2443.0	718.8	390.7	395.9	411.5	421.9	375.0	328.2	296.9	296.9
72.5°	2838.8	1854.4	578.2	328.2	354.2	354.2	369.8	333.4	286.5	255.2	260.4
75°	2057.5	1328.3	458.4	276.1	307.3	302.1	302.1	281.3	244.8	224.0	224.0
77.5°	974.1	698.0	364.6	197.9	239.6	234.4	239.6	224.0	208.4	187.5	192.7
80°	479.2	343.8	234.4	140.6	166.7	171.9	187.5	177.1	171.9	156.3	156.3
82.5°	229.2	135.4	109.4	99.0	114.6	119.8	130.2	130.2	135.4	125.0	125.0
85°	62.5	36.5	46.9	62.5	72.9	78.1	88.6	93.8	93.8	88.6	93.8
87.5°	15.6	15.6	20.8	31.3	36.5	41.7	46.9	46.9	20.8	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)