Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P842015

Luminaire Tested: **ARCH4-260-722-U-T4W-HSS**

Issue Date: 5/27/2024

Report Generated By 670246001

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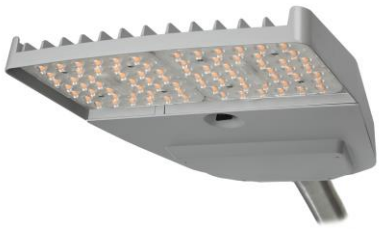
Test Information

Test Method:	LM-79-08
Report Number:	P842015
	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:	ARCH4-260-722-U-T4W-HSS
Description:	ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
	(2) 70 CRI, 2200K, 1010mA 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:	22868 lumens
Efficiency:	N/A
Efficacy:	88.2 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):	259.2
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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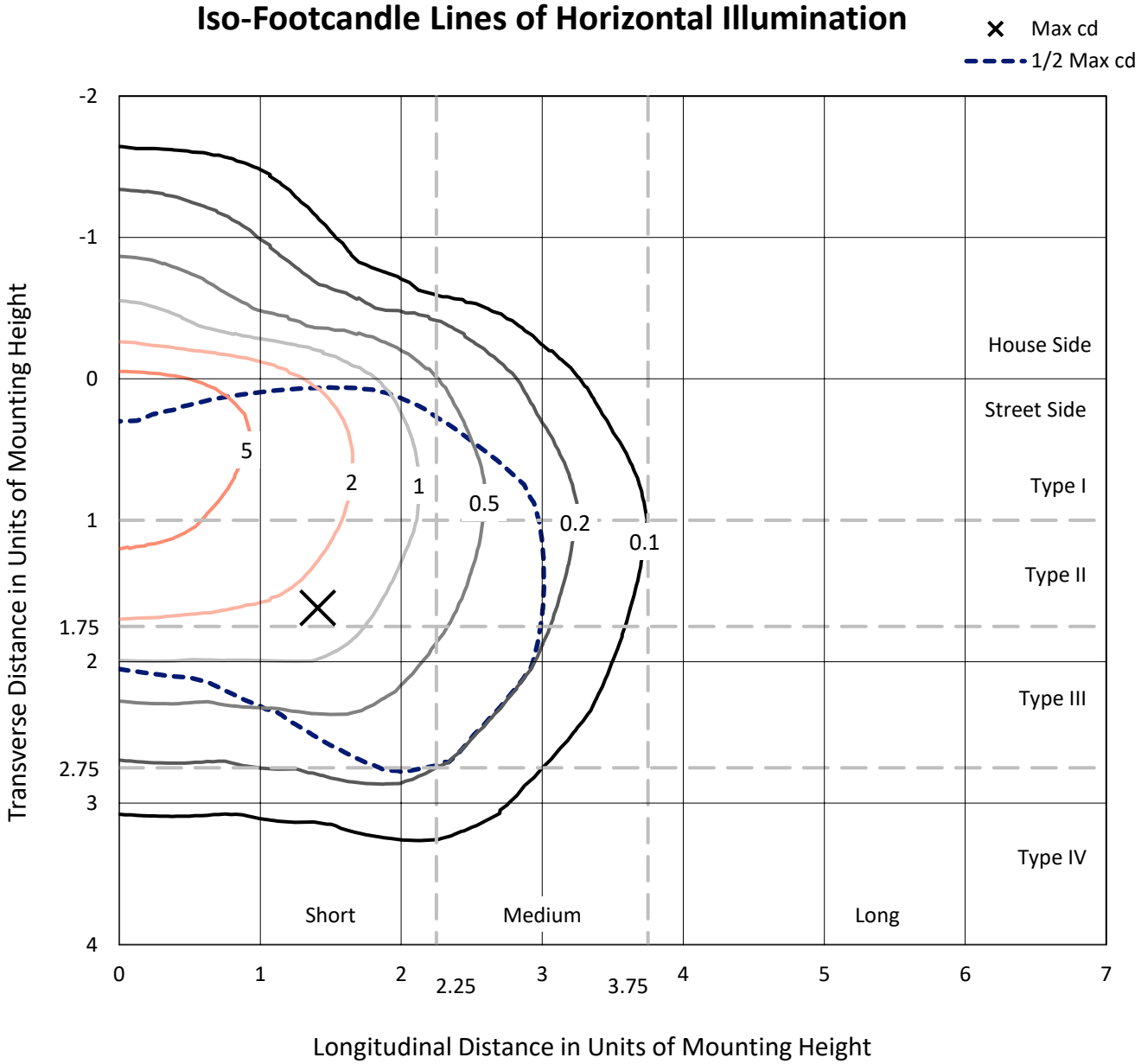
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type III - Short - N/A

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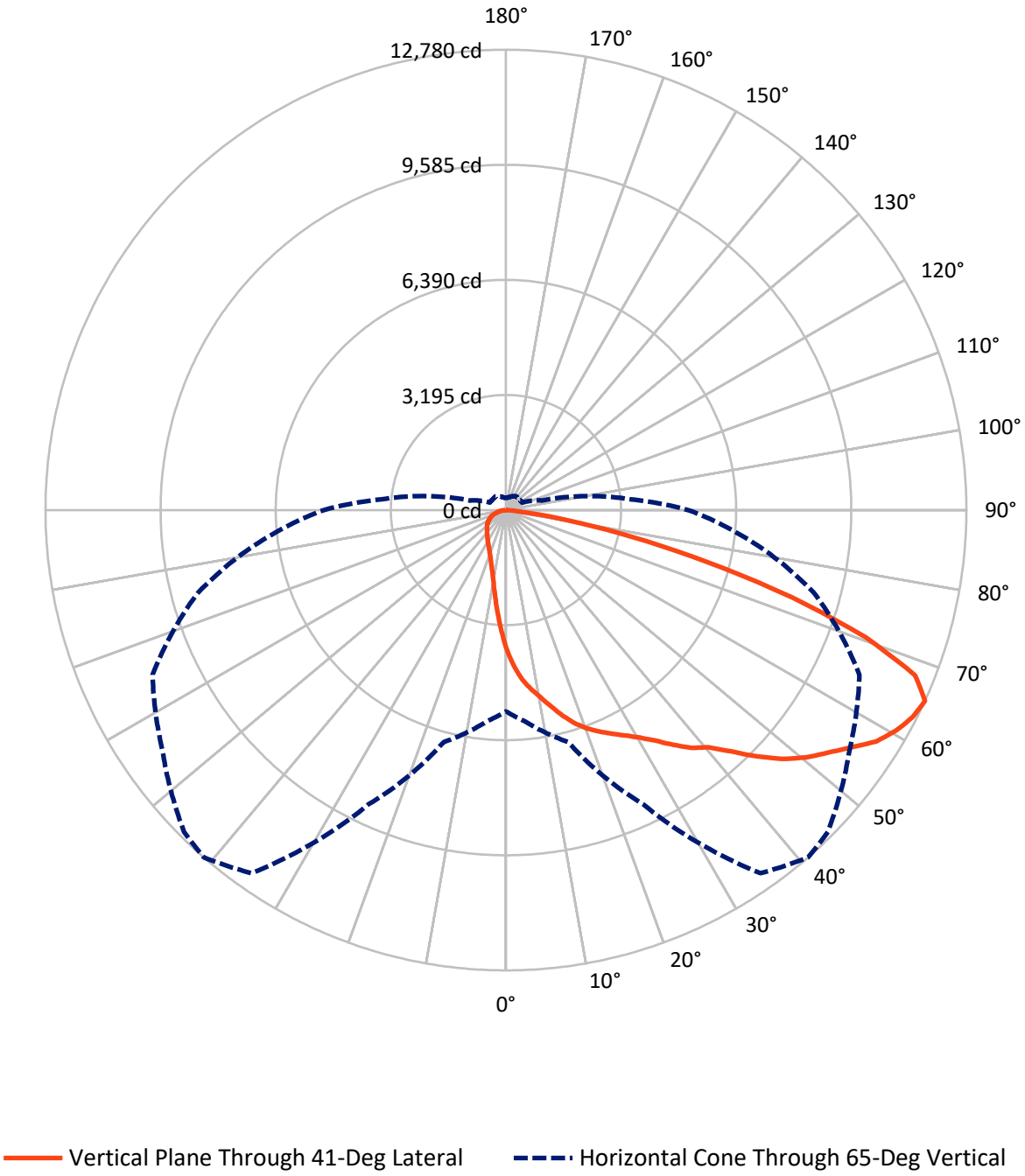
Luminous Intensity Polar Plot



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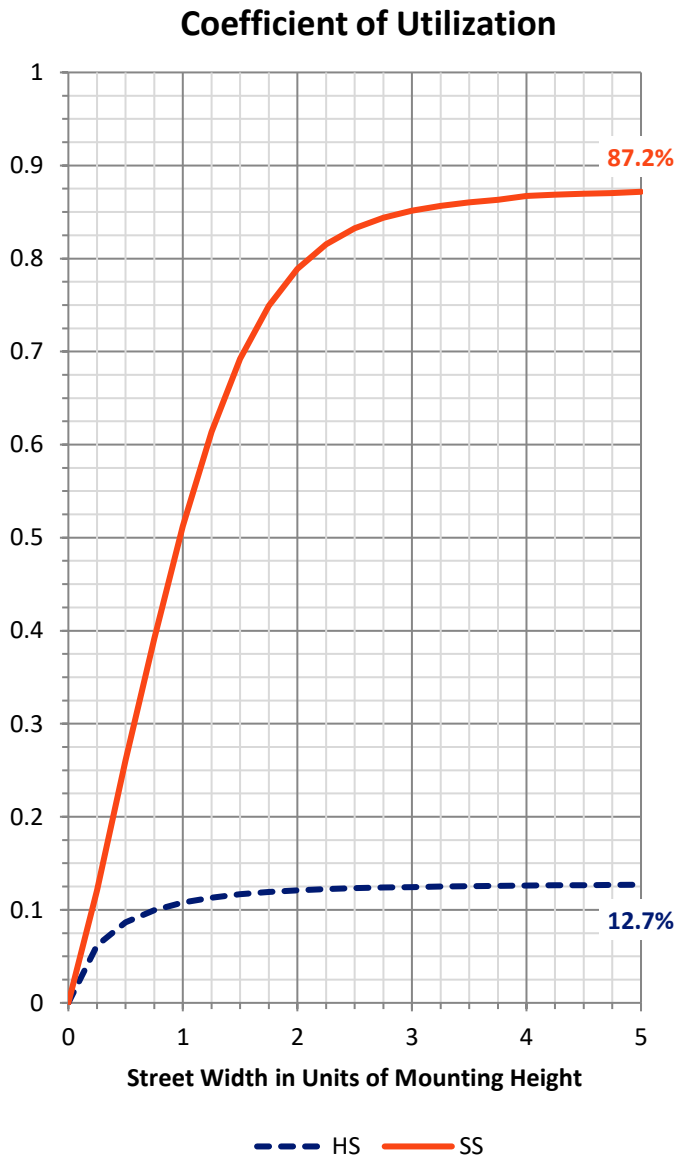
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2935.9	0.0	2935.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	19932.1	0.0	19932.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	22868.0	0.0	22868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	1.6
10°-20°	1088.7	4.8
20°-30°	1872.9	8.2
30°-40°	2840.5	12.4
40°-50°	4161.5	18.2
50°-60°	5255.0	23.0
60°-70°	4927.5	21.5
70°-80°	2196.2	9.6
80°-90°	162.7	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°	22868.0	100.0
0°-180°	22868.0	100.0



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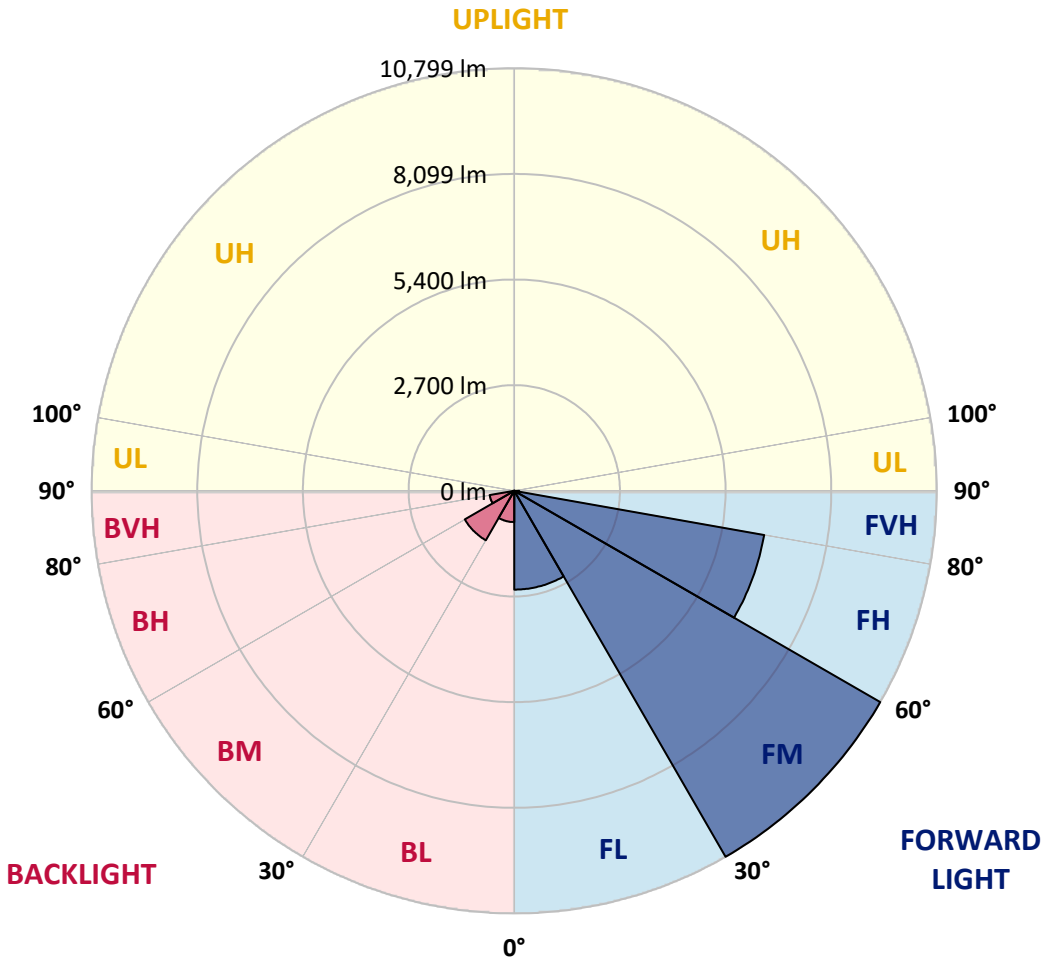
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2525.5	11.0			
FM	(30°-60°)	10799.2	47.2			
FH	(60°-80°)	6486.0	28.4			G3/7500
FVH	(80°-90°)	121.5	0.5			G2/225
BL	(0°-30°)	799.1	3.5	B2/1000		
BM	(30°-60°)	1457.8	6.4	B2/2500		
BH	(60°-80°)	637.8	2.8	B2/1000		G2/1000
BVH	(80°-90°)	41.2	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°	3896.6	3896.6	3896.6	3896.6	3896.6	*3896.6*	3896.6	3896.6	3896.6	3896.6	3896.6
2.5°	4494.6	4480.1	4470.5	4417.4	4417.4	*4345.1*	4349.9	4282.4	4200.4	4070.2	3930.3
5°	4919.0	4899.7	4875.6	4822.5	4803.2	*4730.9*	4721.2	4624.8	4484.9	4258.3	4007.5
7.5°	5290.3	5271.0	5237.2	5160.1	5107.0	*5020.2*	4996.1	4870.7	4716.4	4436.7	4084.7
10°	5627.9	5613.4	5570.0	5473.5	5401.2	*5295.1*	5251.7	5082.9	4890.0	4581.4	4147.4
12.5°	5970.3	5951.0	5893.1	5811.1	5724.3	*5598.9*	5545.9	5328.9	5082.9	4740.5	4239.0
15°	6288.6	6259.6	6216.2	6129.4	6052.2	*5931.7*	5873.8	5618.2	5319.2	4919.0	4359.5
17.5°	6495.9	6471.8	6433.2	6385.0	6322.3	*6230.7*	6172.8	5922.0	5555.5	5092.6	4484.9
20°	6621.3	6611.7	6597.2	6568.3	6539.3	*6476.6*	6433.2	6196.9	5811.1	5261.4	4605.5
22.5°	6717.8	6708.1	6703.3	6703.3	6708.1	*6684.0*	6655.1	6452.5	6057.1	5439.8	4716.4
25°	6867.3	6862.4	6852.8	6843.1	6876.9	*6881.7*	6872.1	6732.2	6365.7	5676.1	4856.3
27.5°	7074.6	7060.2	7040.9	7031.2	7065.0	*7089.1*	7108.4	7011.9	6693.6	5917.2	5015.4
30°	7392.9	7349.5	7301.3	7267.5	7291.6	*7330.2*	7373.6	7315.7	7031.2	6216.2	5179.4
32.5°	7769.1	7716.0	7605.1	7542.4	7605.1	*7634.0*	7667.8	7638.9	7383.3	6539.3	5343.3
35°	8227.2	8164.5	8048.8	7957.1	8068.1	*8005.4*	7990.9	7962.0	7716.0	6857.6	5526.6
37.5°	8989.2	8897.5	8714.3	8511.7	8511.7	*8376.7*	8323.7	8236.8	8015.0	7142.1	5705.0
40°	9871.7	9751.1	9514.8	9215.8	8940.9	*8661.2*	8627.5	8564.8	8367.1	7470.1	5907.6
42.5°	10841.0	10609.5	10281.6	9919.9	9476.2	*9157.9*	9080.8	8902.4	8709.5	7802.8	6110.1
45°	11916.4	11434.2	10956.7	10773.5	10040.5	*9751.1*	9606.4	9283.3	9066.3	8150.0	6322.3
47.5°	12090.0	11713.9	11395.6	11366.7	10566.1	*10325.0*	10161.0	9698.1	9452.1	8521.4	6544.1
50°	11993.6	11766.9	11800.7	11684.9	10951.9	*10792.8*	10667.4	10141.7	9833.1	8878.2	6746.7
52.5°	11588.5	11713.9	11906.8	11694.6	11318.4	*11188.2*	11125.5	10619.2	10190.0	9206.2	6929.9
55°	11106.2	11193.0	11607.8	11868.2	11742.8	*11627.1*	11569.2	11173.8	10542.0	9481.1	7098.7
57.5°	10402.2	10363.6	10821.7	11839.3	12186.5	*12119.0*	12056.3	11718.7	10869.9	9678.8	7204.8
60°	9346.0	9264.0	9842.7	11260.6	12331.2	*12437.3*	12408.3	12080.4	11120.7	9674.0	7161.4
62.5°	7518.3	7720.8	8521.4	10315.3	12393.8	*12663.9*	12610.9	12109.3	11202.7	9394.2	6886.5
65°	*5589.3*	*5878.6*	*6664.7*	*9013.3*	*12307.0*	*12779.7*	*12635.0*	*11636.7*	*10821.7*	*8839.7*	*6283.7*
67.5°	4026.8	4282.4	4856.3	7417.0	11472.8	*12249.2*	12080.4	10865.1	9944.0	8053.6	5449.4
70°	2753.7	2936.9	3327.5	5401.2	9794.5	*10590.2*	10484.1	9712.5	8560.0	7118.0	4427.1
72.5°	1943.5	2020.6	2271.4	3563.8	7441.1	*8309.2*	8183.8	7990.9	6876.9	5917.2	3443.3
75°	1456.4	1504.6	1639.7	2305.2	5020.2	*5758.1*	5642.3	5753.3	5136.0	4480.1	2507.7
77.5°	549.8	598.0	930.7	1470.9	2970.7	*3534.9*	3419.2	3486.7	2854.9	2261.8	1249.0
80°	149.5	159.1	308.6	699.3	1350.3	*1760.2*	1601.1	1374.4	1061.0	1041.7	660.7
82.5°	62.7	72.3	139.9	376.2	482.3	*482.3*	405.1	501.5	405.1	487.1	318.3
85°	24.1	28.9	33.8	96.5	62.7	*67.5*	72.3	96.5	82.0	101.3	72.3
87.5°	0.0	0.0	0.0	4.8	4.8	*9.6*	4.8	9.6	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°	3896.6	3896.6	3896.6	3896.6	3896.6	3896.6	3896.6	3896.6	3896.6	3896.6	3896.6
2.5°	3872.5	3819.4	3742.3	3616.9	3486.7	3414.3	3322.7	3308.2	3211.8	3202.1	3163.6
5°	3896.6	3785.7	3587.9	3346.8	3110.5	2927.3	2792.2	2719.9	2580.0	2580.0	2541.5
7.5°	3915.9	3742.3	3424.0	3067.1	2744.0	2498.1	2314.8	2237.6	2112.3	2102.6	2073.7
10°	3920.7	3689.2	3245.5	2782.6	2387.1	2136.4	1957.9	1871.1	1760.2	1750.6	1731.3
12.5°	3959.3	3660.3	3086.4	2536.6	2131.5	1861.5	1687.9	1615.5	1528.7	1519.1	1499.8
15°	4022.0	3660.3	2951.4	2329.3	1904.9	1654.1	1504.6	1437.1	1374.4	1364.8	1355.1
17.5°	4084.7	3650.6	2816.3	2136.4	1716.8	1490.2	1359.9	1306.9	1258.7	1253.9	1244.2
20°	4142.5	3645.8	2681.3	1972.4	1572.1	1355.1	1253.9	1205.6	1167.0	1167.0	1162.2
22.5°	4200.4	3636.2	2551.1	1818.1	1446.8	1253.9	1167.0	1114.0	1085.1	1085.1	1080.2
25°	4287.2	3636.2	2430.5	1687.9	1345.5	1176.7	1089.9	1051.3	1027.2	1022.4	1022.4
27.5°	4388.5	3665.1	2324.4	1572.1	1258.7	1099.5	1032.0	993.4	964.5	954.9	959.7
30°	4499.4	3689.2	2228.0	1470.9	1176.7	1041.7	969.3	930.7	901.8	892.2	897.0
32.5°	4610.3	3718.2	2141.2	1379.2	1094.7	988.6	916.3	872.9	843.9	839.1	839.1
35°	4730.9	3747.1	2054.4	1302.1	1027.2	935.6	868.1	819.8	800.5	790.9	795.7
37.5°	4851.4	3795.3	1972.4	1229.7	979.0	887.3	824.6	776.4	762.0	757.1	757.1
40°	4996.1	3867.7	1938.6	1181.5	935.6	843.9	790.9	742.7	728.2	728.2	728.2
42.5°	5116.7	3925.5	1909.7	1128.5	901.8	805.4	757.1	718.6	708.9	704.1	708.9
45°	5237.2	3978.6	1871.1	1080.2	858.4	766.8	728.2	689.6	680.0	680.0	680.0
47.5°	5357.8	4007.5	1818.1	1032.0	819.8	733.0	699.3	665.5	655.9	655.9	655.9
50°	5454.3	4031.6	1740.9	979.0	776.4	704.1	670.3	636.6	626.9	626.9	626.9
52.5°	5550.7	4036.4	1658.9	916.3	733.0	670.3	641.4	607.6	598.0	593.2	593.2
55°	5637.5	4031.6	1562.5	843.9	684.8	631.7	607.6	578.7	559.4	540.1	549.8
57.5°	5700.2	4026.8	1451.6	771.6	636.6	593.2	583.5	544.9	506.4	458.1	467.8
60°	5676.1	3973.7	1331.0	680.0	583.5	554.6	554.6	501.5	434.0	409.9	414.7
62.5°	5521.8	3824.3	1205.6	583.5	530.5	516.0	511.2	453.3	400.3	376.2	381.0
65°	*5058.8*	*3448.1*	*1022.4*	*496.7*	*477.4*	*472.6*	*472.6*	*419.6*	*371.3*	*342.4*	*347.2*
67.5°	4354.7	2893.5	834.3	419.6	424.4	434.0	434.0	385.8	337.6	308.6	313.5
70°	3491.5	2261.8	665.5	361.7	366.5	381.0	390.6	347.2	303.8	274.9	274.9
72.5°	2628.3	1716.8	535.3	303.8	327.9	327.9	342.4	308.6	265.2	236.3	241.1
75°	1904.9	1229.7	424.4	255.6	284.5	279.7	279.7	260.4	226.7	207.4	207.4
77.5°	901.8	646.2	337.6	183.3	221.8	217.0	221.8	207.4	192.9	173.6	178.4
80°	443.7	318.3	217.0	130.2	154.3	159.1	173.6	164.0	159.1	144.7	144.7
82.5°	212.2	125.4	101.3	91.6	106.1	110.9	120.6	120.6	125.4	115.7	115.7
85°	57.9	33.8	43.4	57.9	67.5	72.3	82.0	86.8	86.8	82.0	86.8
87.5°	14.5	14.5	19.3	28.9	33.8	38.6	43.4	43.4	19.3	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)