

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: P841385

Luminaire Tested: **ARCH4-170-730-U-T4W-HSS**

Issue Date: 5/27/2024

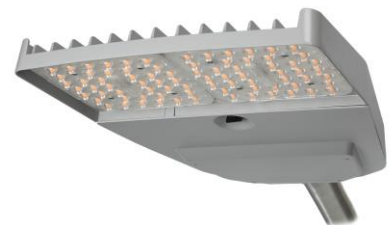
Test Information

Test Method: LM-79-08
Report Number: P841385
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: ARCH4-170-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1380mA 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: 18850 lumens
Efficiency: N/A
Efficacy: 111.0 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

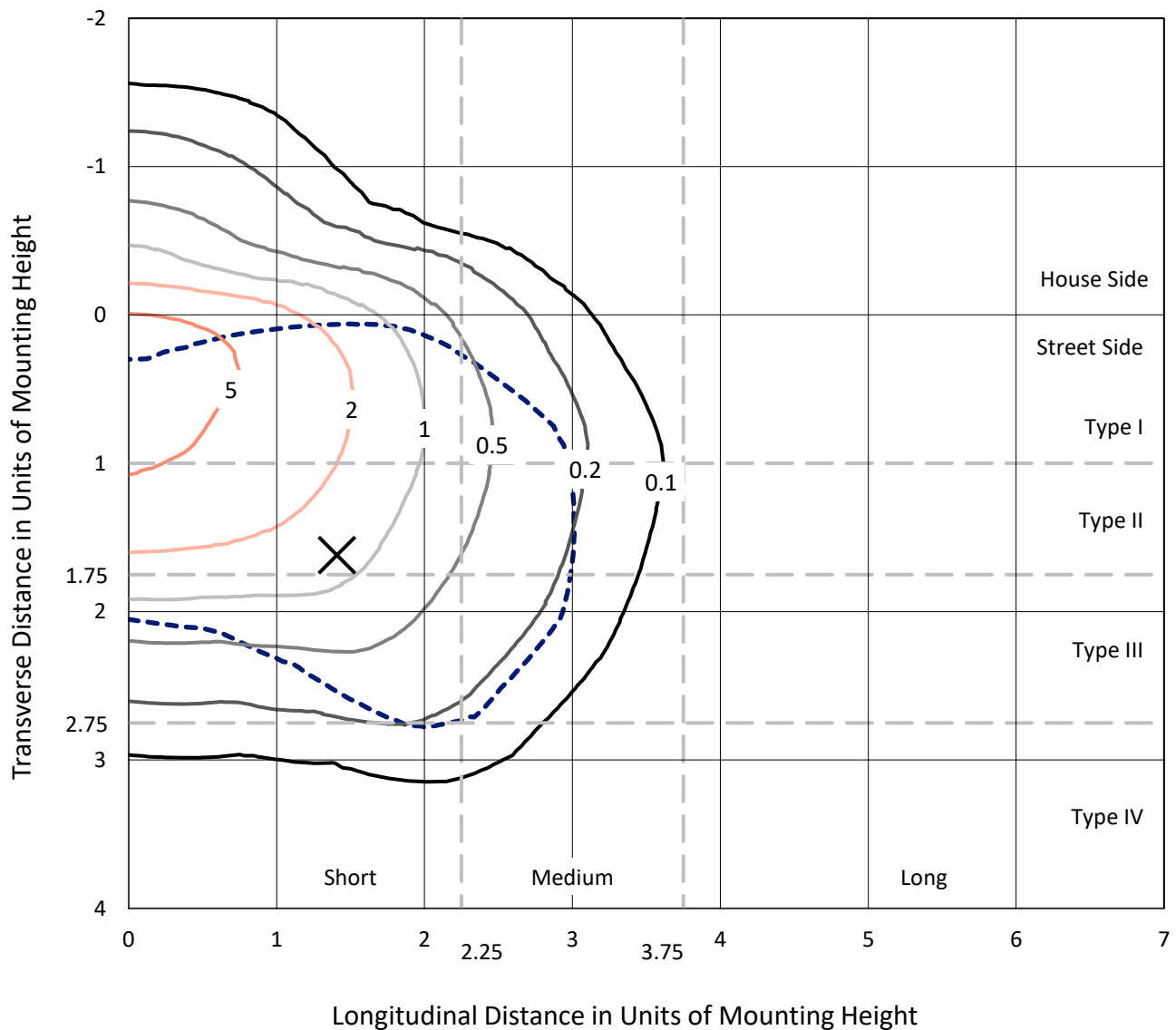
Input Watts (W): 169.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

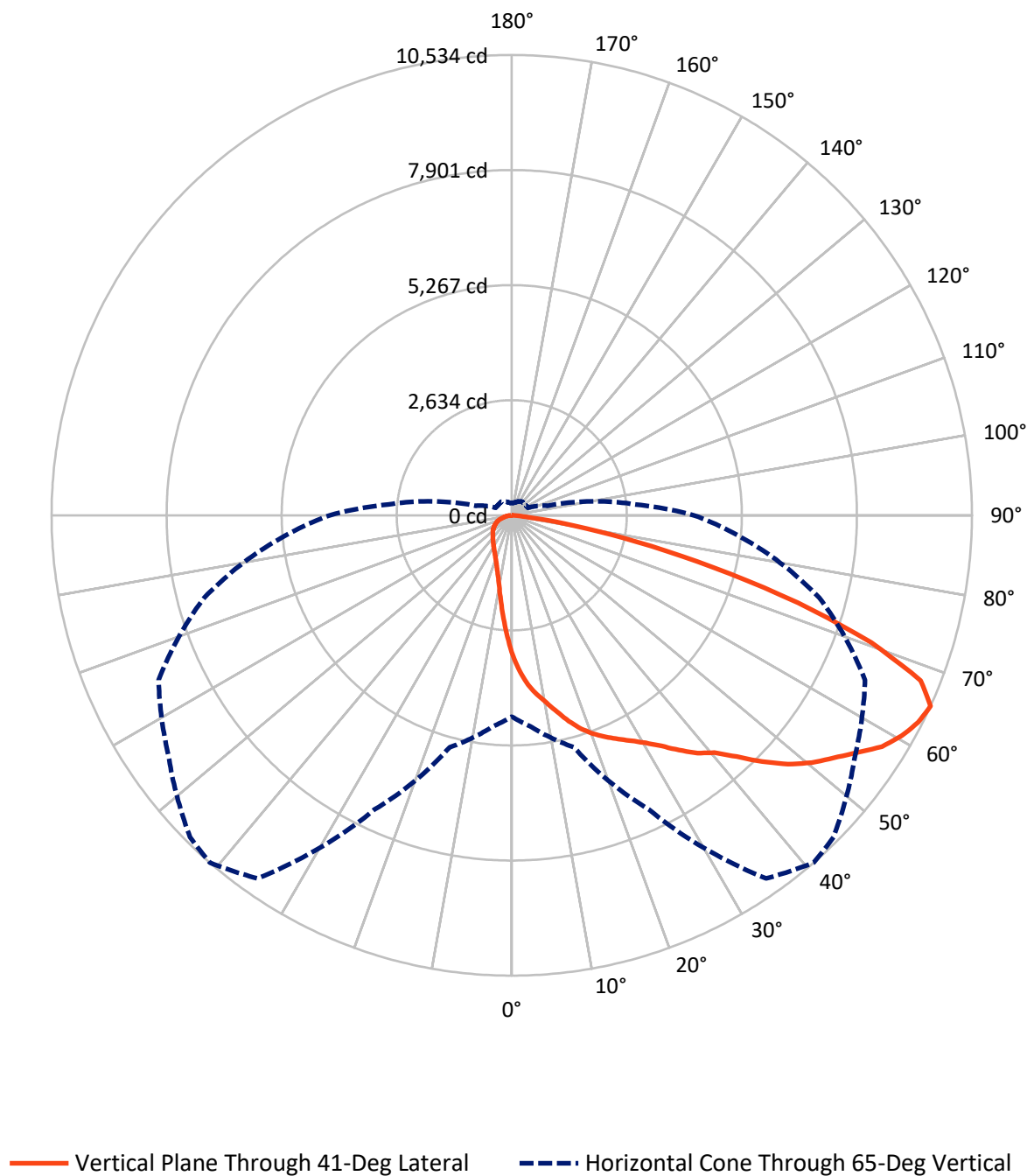
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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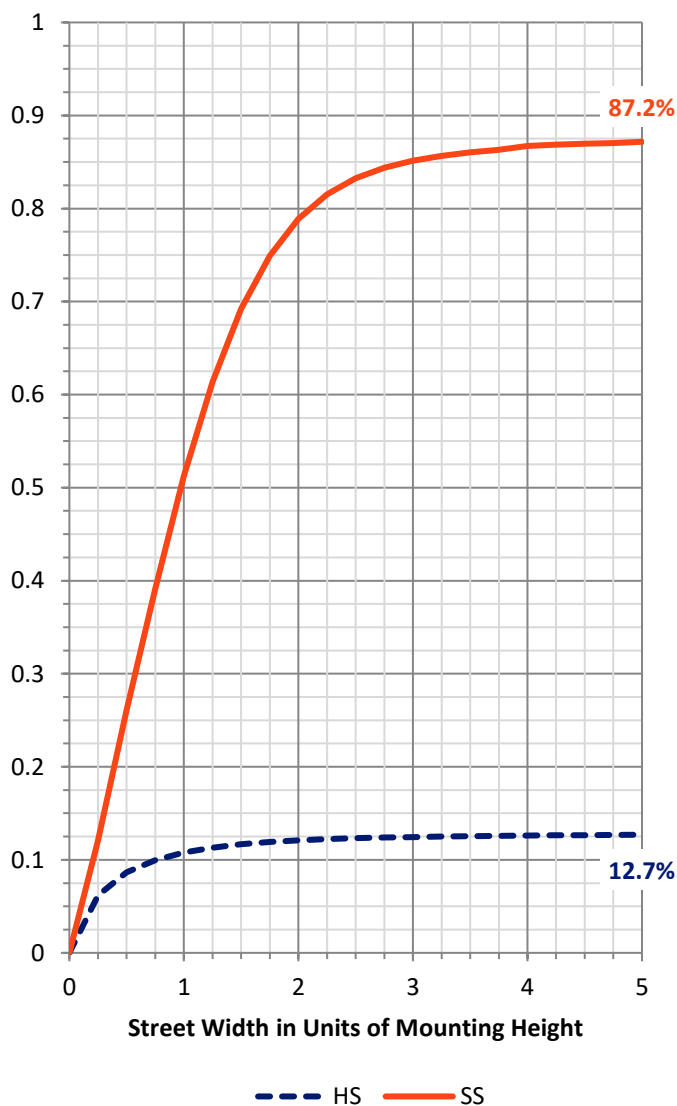
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2420.1	0.0	2420.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	16429.9	0.0	16429.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	18850.0	0.0	18850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.3	1.6
10°-20°	897.4	4.8
20°-30°	1543.8	8.2
30°-40°	2341.4	12.4
40°-50°	3430.3	18.2
50°-60°	4331.7	23.0
60°-70°	4061.7	21.5
70°-80°	1810.3	9.6
80°-90°	134.1	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°	18850.0	100.0
0°-180°	18850.0	100.0

Coefficient of Utilization



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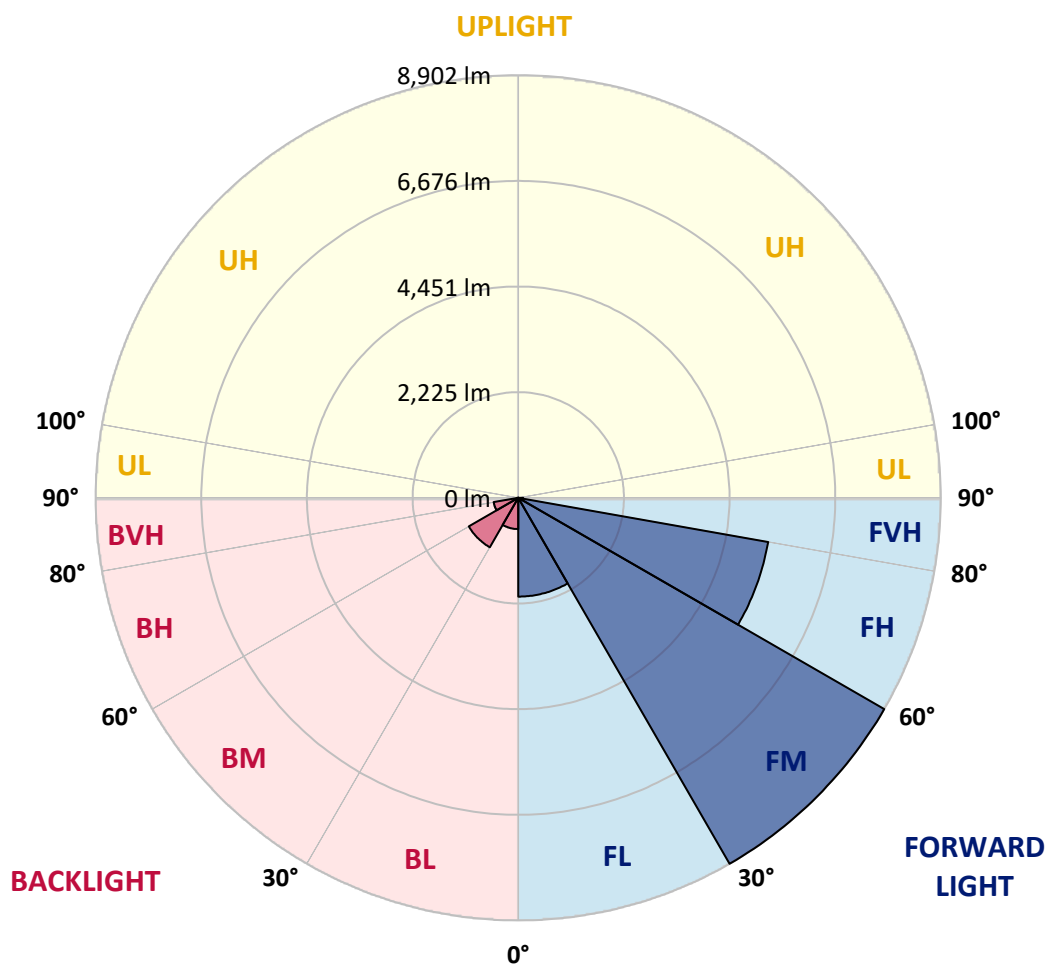
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2081.7	11.0			
FM	(30°-60°)	8901.7	47.2			
FH	(60°-80°)	5346.3	28.4			G3/7500
FVH	(80°-90°)	100.2	0.5			G2/225
BL	(0°-30°)	658.7	3.5	B2/1000		
BM	(30°-60°)	1201.7	6.4	B2/2500		
BH	(60°-80°)	525.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	34.0	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°	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9
2.5°	3704.9	3692.9	3685.0	3641.3	3641.3	3581.6	3585.6	3530.0	3462.4	3355.0	3239.8
5°	4054.7	4038.8	4018.9	3975.2	3959.3	3899.6	3891.7	3812.2	3696.9	3510.1	3303.4
7.5°	4360.8	4344.9	4317.0	4253.4	4209.7	4138.2	4118.3	4014.9	3887.7	3657.2	3367.0
10°	4639.0	4627.1	4591.3	4511.8	4452.2	4364.7	4329.0	4189.8	4030.8	3776.4	3418.7
12.5°	4921.3	4905.4	4857.7	4790.1	4718.5	4615.2	4571.5	4392.6	4189.8	3907.6	3494.2
15°	5183.6	5159.8	5124.0	5052.4	4988.8	4889.5	4841.8	4631.1	4384.6	4054.7	3593.6
17.5°	5354.6	5334.7	5302.9	5263.1	5211.5	5135.9	5088.2	4881.5	4579.4	4197.8	3696.9
20°	5457.9	5450.0	5438.0	5414.2	5390.3	5338.7	5302.9	5108.1	4790.1	4336.9	3796.3
22.5°	5537.4	5529.5	5525.5	5525.5	5529.5	5509.6	5485.7	5318.8	4992.8	4484.0	3887.7
25°	5660.6	5656.7	5648.7	5640.8	5668.6	5672.6	5664.6	5549.3	5247.2	4678.8	4003.0
27.5°	5831.6	5819.7	5803.8	5795.8	5823.6	5843.5	5859.4	5779.9	5517.5	4877.5	4134.2
30°	6093.9	6058.2	6018.4	5990.6	6010.5	6042.3	6078.0	6030.3	5795.8	5124.0	4269.3
32.5°	6404.0	6360.3	6268.9	6217.2	6268.9	6292.7	6320.5	6296.7	6086.0	5390.3	4404.5
35°	6781.6	6730.0	6634.6	6559.0	6650.5	6598.8	6586.9	6563.0	6360.3	5652.7	4555.6
37.5°	7409.7	7334.2	7183.1	7016.2	7016.2	6904.9	6861.2	6789.6	6606.7	5887.2	4702.6
40°	8137.2	8037.8	7843.0	7596.6	7370.0	7139.4	7111.6	7059.9	6896.9	6157.5	4869.6
42.5°	8936.2	8745.4	8475.1	8176.9	7811.2	7548.9	7485.3	7338.2	7179.2	6431.8	5036.5
45°	9822.7	9425.1	9031.6	8880.5	8276.3	8037.8	7918.5	7652.2	7473.3	6718.0	5211.5
47.5°	9965.8	9655.7	9393.3	9369.5	8709.6	8510.8	8375.7	7994.1	7791.3	7024.1	5394.3
50°	9886.3	9699.4	9727.3	9631.8	9027.6	8896.4	8793.1	8359.8	8105.4	7318.3	5561.3
52.5°	9552.3	9655.7	9814.7	9639.8	9329.7	9222.4	9170.7	8753.3	8399.5	7588.6	5712.3
55°	9154.8	9226.4	9568.2	9782.9	9679.6	9584.1	9536.4	9210.5	8689.7	7815.2	5851.5
57.5°	8574.5	8542.7	8920.3	9759.1	10045.3	9989.6	9937.9	9659.7	8960.0	7978.2	5938.9
60°	7703.9	7636.3	8113.3	9282.0	10164.5	10252.0	10228.1	9957.8	9166.8	7974.2	5903.1
62.5°	6197.3	6364.3	7024.1	8502.9	10216.2	10438.8	10395.1	9981.7	9234.3	7743.6	5676.5
65°	4607.2	4845.7	5493.7	7429.6	10144.6	10534.2	10415.0	9592.1	8920.3	7286.5	5179.7
67.5°	3319.3	3530.0	4003.0	6113.8	9456.9	10096.9	9957.8	8956.1	8196.8	6638.5	4491.9
70°	2269.8	2420.9	2742.9	4452.2	8073.6	8729.5	8642.0	8006.0	7055.9	5867.4	3649.2
72.5°	1602.0	1665.6	1872.3	2937.7	6133.7	6849.2	6745.9	6586.9	5668.6	4877.5	2838.3
75°	1200.5	1240.3	1351.6	1900.1	4138.2	4746.4	4651.0	4742.4	4233.6	3692.9	2067.1
77.5°	453.2	492.9	767.2	1212.4	2448.7	2913.8	2818.4	2874.1	2353.3	1864.4	1029.6
80°	123.2	131.2	254.4	576.4	1113.0	1450.9	1319.8	1132.9	874.5	858.6	544.6
82.5°	51.7	59.6	115.3	310.1	397.5	397.5	333.9	413.4	333.9	401.5	262.4
85°	19.9	23.9	27.8	79.5	51.7	55.7	59.6	79.5	67.6	83.5	59.6
87.5°	0.0	0.0	0.0	4.0	4.0	8.0	4.0	8.0	11.9	11.9	11.9
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°	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9
2.5°	3192.1	3148.3	3084.7	2981.4	2874.1	2814.4	2738.9	2727.0	2647.5	2639.5	2607.7
5°	3211.9	3120.5	2957.5	2758.8	2564.0	2412.9	2301.6	2242.0	2126.7	2126.7	2094.9
7.5°	3227.8	3084.7	2822.4	2528.2	2261.9	2059.1	1908.1	1844.5	1741.1	1733.2	1709.3
10°	3231.8	3041.0	2675.3	2293.7	1967.7	1761.0	1613.9	1542.4	1450.9	1443.0	1427.1
12.5°	3263.6	3017.2	2544.1	2090.9	1757.0	1534.4	1391.3	1331.7	1260.1	1252.2	1236.3
15°	3315.3	3017.2	2432.8	1920.0	1570.2	1363.5	1240.3	1184.6	1132.9	1125.0	1117.0
17.5°	3367.0	3009.2	2321.5	1761.0	1415.2	1228.3	1121.0	1077.3	1037.5	1033.5	1025.6
20°	3414.7	3005.2	2210.2	1625.8	1295.9	1117.0	1033.5	993.8	962.0	962.0	958.0
22.5°	3462.4	2997.3	2102.9	1498.6	1192.6	1033.5	962.0	918.3	894.4	894.4	890.4
25°	3533.9	2997.3	2003.5	1391.3	1109.1	969.9	898.4	866.6	846.7	842.7	842.7
27.5°	3617.4	3021.1	1916.0	1295.9	1037.5	906.3	850.7	818.9	795.0	787.1	791.1
30°	3708.8	3041.0	1836.5	1212.4	969.9	858.6	799.0	767.2	743.4	735.4	739.4
32.5°	3800.3	3064.9	1765.0	1136.9	902.4	814.9	755.3	719.5	695.7	691.7	691.7
35°	3899.6	3088.7	1693.4	1073.3	846.7	771.2	715.5	675.8	659.9	651.9	655.9
37.5°	3999.0	3128.5	1625.8	1013.7	807.0	731.4	679.8	640.0	628.1	624.1	624.1
40°	4118.3	3188.1	1598.0	973.9	771.2	695.7	651.9	612.2	600.3	600.3	600.3
42.5°	4217.7	3235.8	1574.2	930.2	743.4	663.9	624.1	592.3	584.4	580.4	584.4
45°	4317.0	3279.5	1542.4	890.4	707.6	632.1	600.3	568.5	560.5	560.5	560.5
47.5°	4416.4	3303.4	1498.6	850.7	675.8	604.2	576.4	548.6	540.6	540.6	540.6
50°	4495.9	3323.2	1435.0	807.0	640.0	580.4	552.5	524.7	516.8	516.8	516.8
52.5°	4575.4	3327.2	1367.5	755.3	604.2	552.5	528.7	500.9	492.9	488.9	488.9
55°	4647.0	3323.2	1288.0	695.7	564.5	520.7	500.9	477.0	461.1	445.2	453.2
57.5°	4698.7	3319.3	1196.5	636.0	524.7	488.9	481.0	449.2	417.4	377.6	385.6
60°	4678.8	3275.5	1097.1	560.5	481.0	457.1	457.1	413.4	357.8	337.9	341.9
62.5°	4551.6	3152.3	993.8	481.0	437.3	425.3	421.4	373.7	329.9	310.1	314.0
65°	4170.0	2842.3	842.7	409.4	393.5	389.6	389.6	345.8	306.1	282.2	286.2
67.5°	3589.6	2385.1	687.7	345.8	349.8	357.8	357.8	318.0	278.3	254.4	258.4
70°	2878.0	1864.4	548.6	298.1	302.1	314.0	322.0	286.2	250.4	226.6	226.6
72.5°	2166.5	1415.2	441.2	250.4	270.3	270.3	282.2	254.4	218.6	194.8	198.8
75°	1570.2	1013.7	349.8	210.7	234.5	230.6	230.6	214.7	186.8	170.9	170.9
77.5°	743.4	532.7	278.3	151.1	182.9	178.9	182.9	170.9	159.0	143.1	147.1
80°	365.7	262.4	178.9	107.3	127.2	131.2	143.1	135.2	131.2	119.3	119.3
82.5°	174.9	103.4	83.5	75.5	87.5	91.4	99.4	99.4	103.4	95.4	95.4
85°	47.7	27.8	35.8	47.7	55.7	59.6	67.6	71.6	71.6	67.6	71.6
87.5°	11.9	11.9	15.9	23.9	27.8	31.8	35.8	35.8	15.9	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)