

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: P841869

Luminaire Tested: **ARCH4-240-722-U-T3-HSS**

Issue Date: 5/27/2024

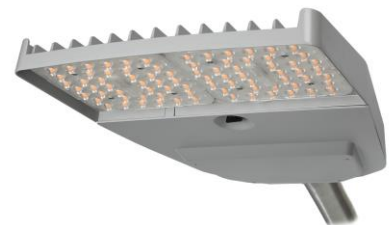
Test Information

Test Method: LM-79-08
Report Number: P841869
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: ARCH4-240-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 940mA 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: 21188 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

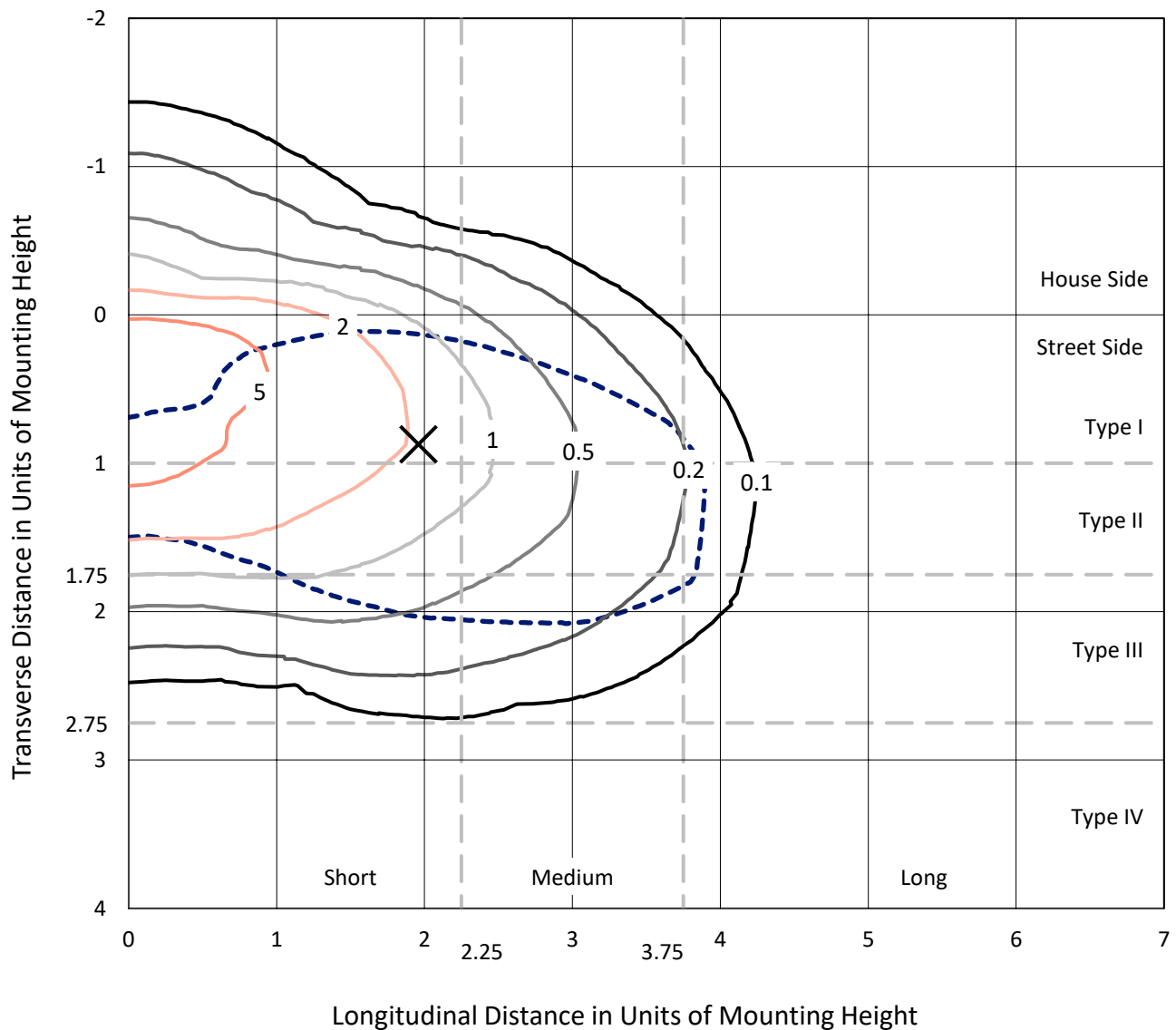
Input Watts (W): 240.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

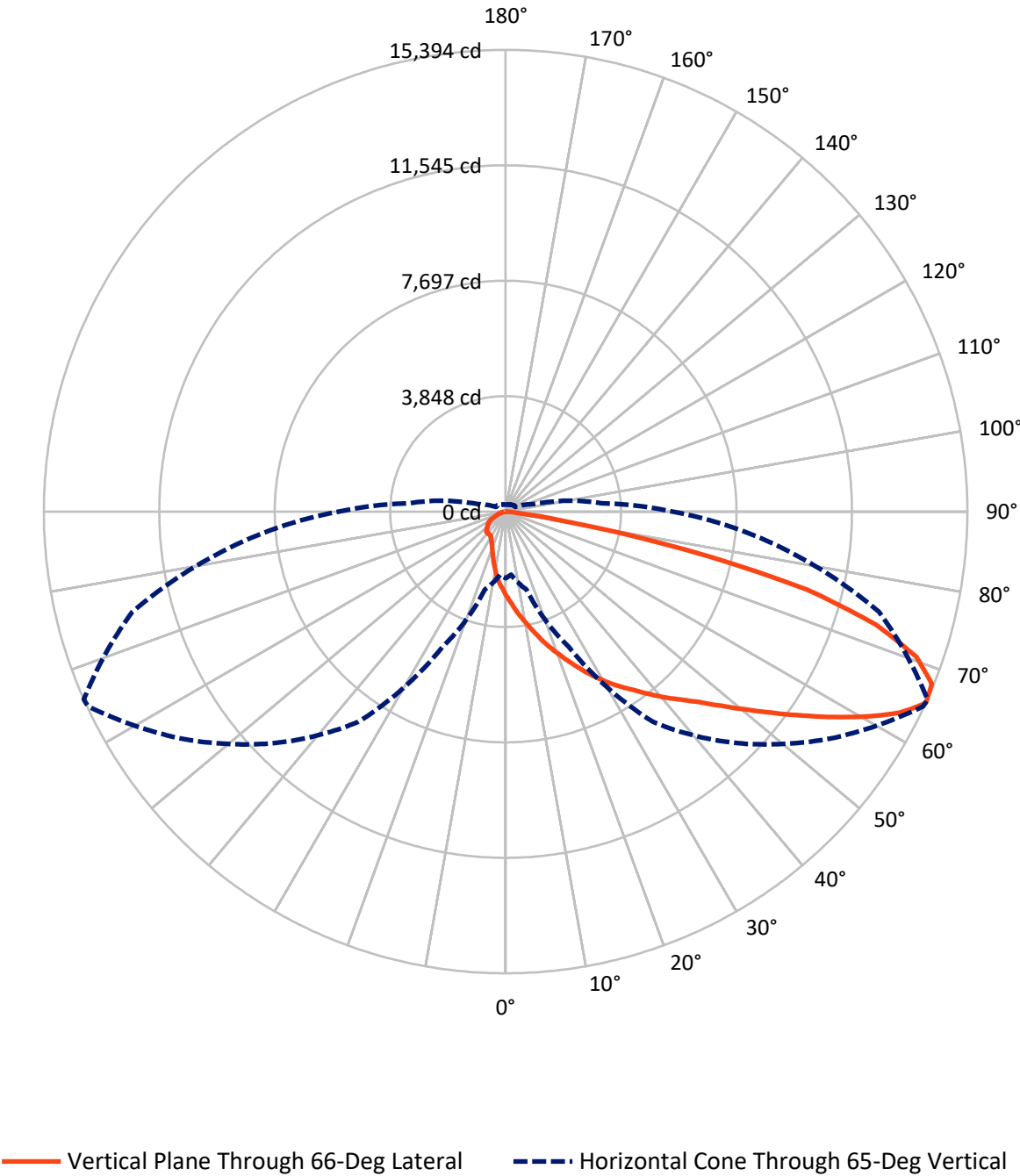
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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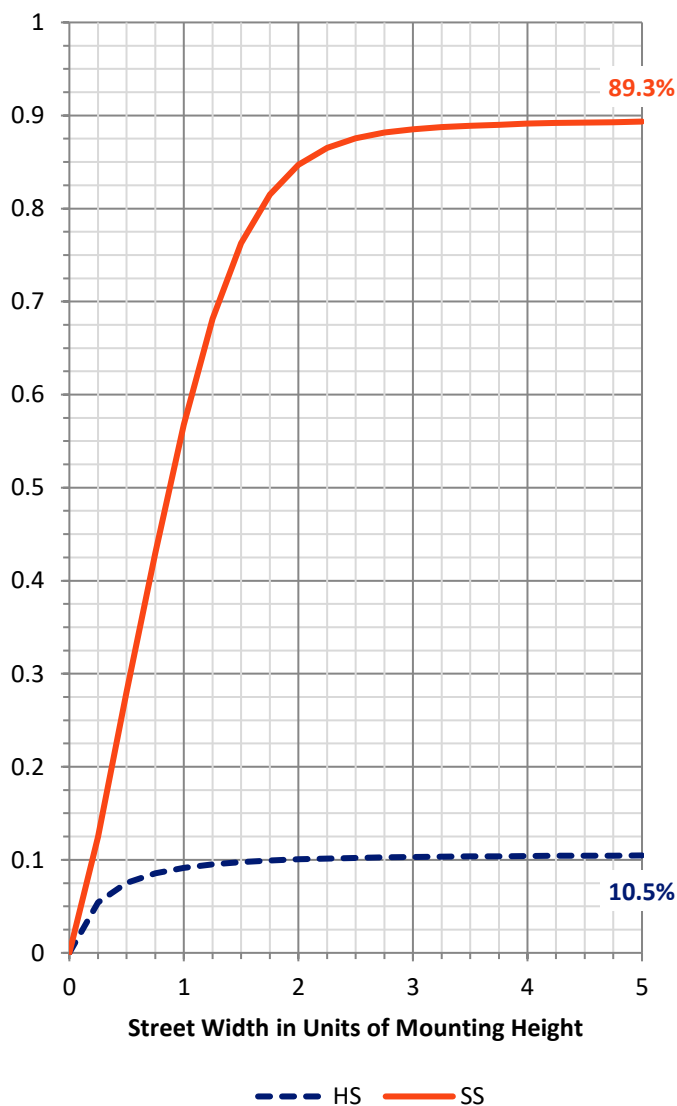
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2241.1	0.0	2241.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	18946.9	0.0	18946.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	21188.0	0.0	21188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	1.3
10°-20°	902.1	4.3
20°-30°	1632.1	7.7
30°-40°	2552.2	12.0
40°-50°	3871.6	18.3
50°-60°	4919.1	23.2
60°-70°	4596.4	21.7
70°-80°	2284.3	10.8
80°-90°	153.5	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°	21188.0	100.0
0°-180°	21188.0	100.0

Coefficient of Utilization



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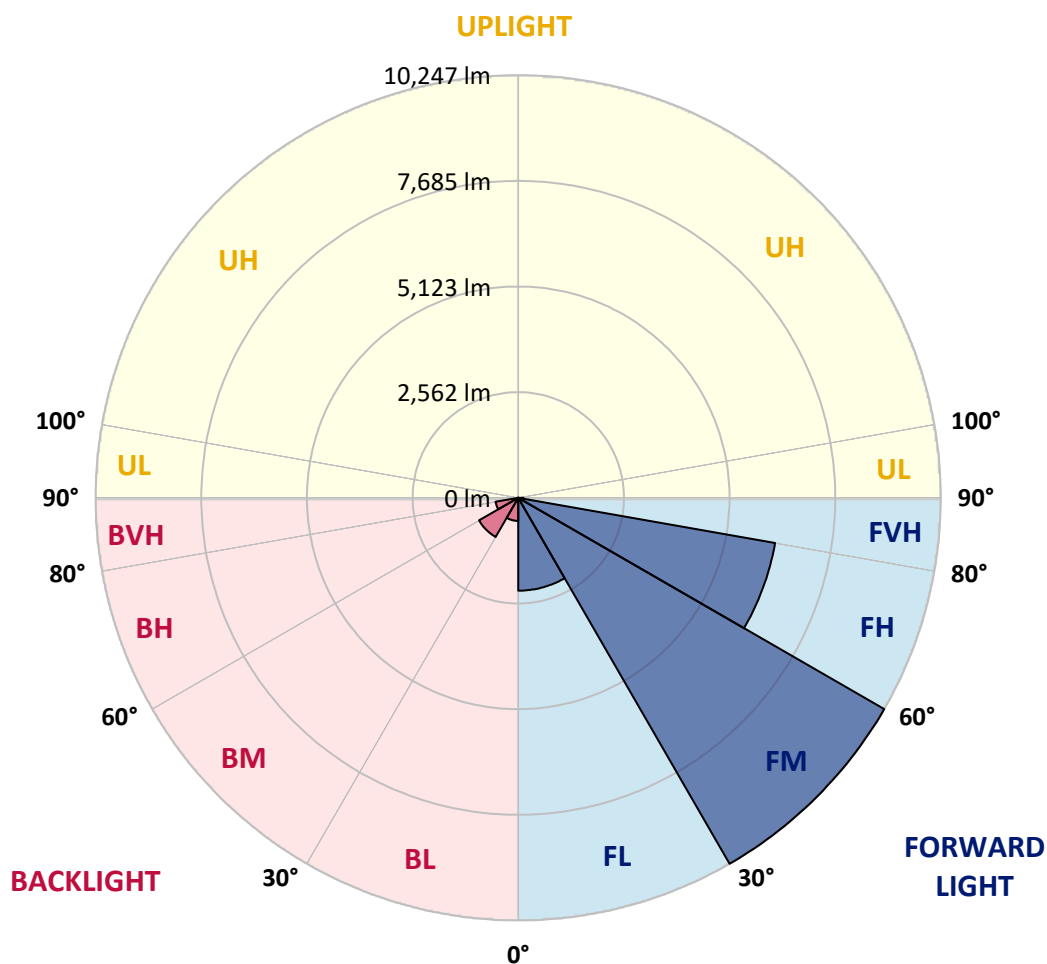
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2251.2	10.6			
FM	(30°-60°)	10246.8	48.4			
FH	(60°-80°)	6322.6	29.8			G3/7500
FVH	(80°-90°)	126.3	0.6			G2/225
BL	(0°-30°)	559.7	2.6	B2/1000		
BM	(30°-60°)	1096.1	5.2	B2/2500		
BH	(60°-80°)	558.1	2.6	B2/1000		G2/1000
BVH	(80°-90°)	27.2	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°	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1
2.5°	3275.2	3301.8	3315.2	3319.6	3217.4	3173.0	3128.5	3026.3	3004.1	2946.3	2870.8
5°	3852.9	3888.4	3879.5	3861.8	3737.3	3595.1	3479.6	3288.5	3257.4	3119.6	2950.8
7.5°	4421.7	4452.8	4443.9	4377.3	4239.5	4039.5	3848.4	3568.5	3524.0	3301.8	3030.8
10°	4897.2	4923.9	4919.4	4852.8	4688.3	4443.9	4212.8	3839.5	3786.2	3470.7	3097.4
12.5°	5288.3	5323.8	5319.4	5274.9	5128.3	4861.7	4599.5	4150.6	4084.0	3675.1	3190.7
15°	5594.9	5639.3	5639.3	5621.6	5519.4	5297.2	4999.4	4492.8	4412.8	3910.7	3306.3
17.5°	5781.5	5817.1	5848.2	5879.3	5808.2	5639.3	5368.3	4835.0	4750.6	4141.7	3426.3
20°	5879.3	5914.9	5937.1	6003.7	6017.1	5932.6	5719.3	5172.7	5083.8	4403.9	3564.0
22.5°	6039.3	6070.4	6074.8	6132.6	6159.3	6181.5	6048.2	5506.0	5434.9	4692.8	3719.6
25°	6305.9	6341.5	6328.1	6354.8	6359.3	6385.9	6372.6	5888.2	5817.1	5021.6	3906.2
27.5°	6648.1	6692.5	6683.7	6657.0	6617.0	6594.8	6652.6	6274.8	6208.2	5350.5	4097.3
30°	7017.0	7070.3	7057.0	7003.6	6897.0	6803.6	6883.6	6639.2	6577.0	5688.2	4310.6
32.5°	7390.2	7452.5	7448.0	7359.1	7176.9	7017.0	7136.9	6981.4	6937.0	6052.6	4541.7
35°	7634.7	7714.7	7705.8	7652.4	7416.9	7279.1	7425.8	7332.5	7301.4	6497.0	4875.0
37.5°	8030.2	8114.6	8039.1	7905.7	7634.7	7563.6	7741.3	7728.0	7705.8	6968.1	5226.1
40°	8990.1	9114.5	8914.5	8367.9	7923.5	7861.3	8114.6	8167.9	8145.7	7434.7	5541.6
42.5°	9994.4	10181.0	9870.0	9114.5	8447.9	8221.3	8523.4	8599.0	8572.3	7834.6	5826.0
45°	10603.2	10683.2	10372.1	9785.5	9376.7	8656.8	8958.9	9083.4	9061.2	8314.6	6190.4
47.5°	11100.9	11069.8	10714.3	10318.8	10394.3	9270.0	9452.2	9696.6	9678.9	8843.4	6590.3
50°	11207.6	11136.5	10994.3	10745.4	10945.4	9892.2	9972.2	10394.3	10376.6	9430.0	6994.7
52.5°	10456.6	10363.2	10749.9	10958.7	10892.1	10345.5	10545.4	11158.7	11149.8	10065.5	7381.4
55°	8581.2	8505.7	9545.5	10625.4	10834.3	10665.4	11180.9	11954.2	12003.0	10741.0	7732.4
57.5°	6750.3	6670.3	7692.4	9790.0	10621.0	10958.7	11923.0	12865.2	12927.4	11474.2	8065.7
60°	5381.6	5261.6	6043.7	8474.6	10221.0	11185.4	12638.5	13865.0	13873.9	12145.2	8270.1
62.5°	3657.3	3524.0	4390.6	6808.1	9550.0	11220.9	13189.6	14727.2	14762.7	12647.4	8305.7
65°	2222.0	2110.9	2697.5	4972.8	8559.0	10918.7	13198.5	15362.6	15393.8	12878.5	8092.4
67.5°	1288.7	1244.3	1542.0	3097.4	6914.7	10105.5	12643.0	15264.9	15322.6	12780.7	7608.0
70°	751.0	746.6	857.7	1533.2	4879.4	8492.3	11403.1	14442.8	14527.2	12269.7	6865.9
72.5°	551.0	559.9	604.4	822.1	2826.3	6114.8	9656.6	12789.6	12918.5	11269.8	5808.2
75°	435.5	439.9	479.9	559.9	1484.3	3457.4	7234.7	10265.5	10367.7	9487.8	4537.2
77.5°	324.4	333.3	364.4	395.5	688.8	1586.5	4070.6	6323.7	6154.8	5208.3	2190.9
80°	235.5	257.7	271.1	284.4	364.4	613.3	1222.1	2204.2	2186.4	2275.3	1035.4
82.5°	151.1	168.9	182.2	191.1	217.8	293.3	364.4	493.3	533.3	884.3	413.3
85°	66.7	75.5	84.4	102.2	93.3	102.2	151.1	97.8	84.4	133.3	75.5
87.5°	0.0	0.0	13.3	22.2	17.8	8.9	26.7	17.8	13.3	13.3	13.3
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°	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1	2804.1
2.5°	2830.8	2781.9	2679.7	2581.9	2524.1	2448.6	2381.9	2319.7	2315.3	2297.5	2266.4
5°	2866.3	2773.0	2581.9	2399.7	2262.0	2115.3	1990.9	1893.1	1857.6	1830.9	1795.3
7.5°	2901.9	2755.2	2470.8	2204.2	1986.4	1782.0	1635.4	1502.0	1462.1	1426.5	1404.3
10°	2915.2	2724.1	2341.9	1986.4	1702.0	1484.3	1328.7	1231.0	1195.4	1177.6	1164.3
12.5°	2955.2	2706.3	2222.0	1782.0	1453.2	1253.2	1142.1	1084.3	1071.0	1057.7	1044.3
15°	3008.5	2706.3	2102.0	1582.0	1257.6	1097.6	1031.0	991.0	982.1	977.7	968.8
17.5°	3066.3	2706.3	1986.4	1413.2	1115.4	995.4	946.6	924.3	919.9	915.4	911.0
20°	3146.3	2710.8	1862.0	1266.5	1013.2	919.9	879.9	853.2	848.8	844.3	844.3
22.5°	3226.3	2719.7	1742.0	1155.4	946.6	862.1	813.2	786.6	777.7	777.7	777.7
25°	3328.5	2746.3	1630.9	1062.1	888.8	808.8	746.6	724.4	719.9	719.9	715.5
27.5°	3448.5	2777.5	1533.2	991.0	831.0	746.6	684.4	662.1	653.3	653.3	648.8
30°	3577.4	2808.6	1453.2	937.7	773.2	684.4	626.6	599.9	591.0	595.5	591.0
32.5°	3719.6	2853.0	1390.9	902.1	719.9	631.0	577.7	546.6	542.2	542.2	537.7
35°	3959.5	2977.4	1382.1	884.3	675.5	591.0	537.7	506.6	502.2	502.2	497.7
37.5°	4217.3	3119.6	1422.1	875.5	639.9	555.5	506.6	475.5	471.1	471.1	471.1
40°	4435.0	3226.3	1466.5	875.5	617.7	524.4	479.9	453.3	453.3	453.3	453.3
42.5°	4581.7	3235.2	1457.6	875.5	599.9	502.2	462.2	435.5	435.5	439.9	435.5
45°	4799.4	3279.6	1422.1	862.1	586.6	484.4	444.4	422.2	417.7	422.2	422.2
47.5°	5057.2	3359.6	1386.5	808.8	582.2	466.6	431.1	404.4	400.0	404.4	400.0
50°	5301.6	3430.7	1368.7	737.7	573.3	448.8	413.3	386.6	382.2	386.6	382.2
52.5°	5506.0	3461.8	1337.6	688.8	551.0	431.1	395.5	368.8	360.0	364.4	364.4
55°	5670.4	3452.9	1293.2	648.8	511.1	413.3	373.3	351.1	337.7	337.7	333.3
57.5°	5821.5	3457.4	1253.2	608.8	466.6	386.6	355.5	328.9	311.1	306.6	302.2
60°	5879.3	3435.2	1182.1	555.5	422.2	364.4	333.3	302.2	284.4	280.0	275.5
62.5°	5799.3	3355.2	1088.8	462.2	382.2	337.7	311.1	280.0	262.2	257.7	253.3
65°	5572.7	3204.1	946.6	364.4	346.6	306.6	284.4	262.2	240.0	231.1	226.6
67.5°	5186.1	2986.3	768.8	293.3	306.6	280.0	266.6	240.0	213.3	204.4	200.0
70°	4635.0	2697.5	577.7	248.9	271.1	248.9	240.0	213.3	191.1	182.2	177.8
72.5°	3861.8	2230.8	404.4	213.3	235.5	217.8	208.9	191.1	168.9	155.5	155.5
75°	2919.7	1599.8	266.6	182.2	195.5	186.6	173.3	160.0	146.6	137.8	133.3
77.5°	1257.6	622.1	164.4	137.8	160.0	155.5	137.8	128.9	124.4	115.5	115.5
80°	542.2	253.3	102.2	102.2	115.5	111.1	106.7	97.8	97.8	93.3	88.9
82.5°	200.0	102.2	62.2	75.5	84.4	75.5	75.5	75.5	75.5	71.1	71.1
85°	48.9	31.1	31.1	44.4	48.9	44.4	48.9	44.4	44.4	44.4	40.0
87.5°	13.3	13.3	17.8	17.8	17.8	17.8	17.8	13.3	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)