

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: P841075

Luminaire Tested: **ARCH4-130-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13480 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

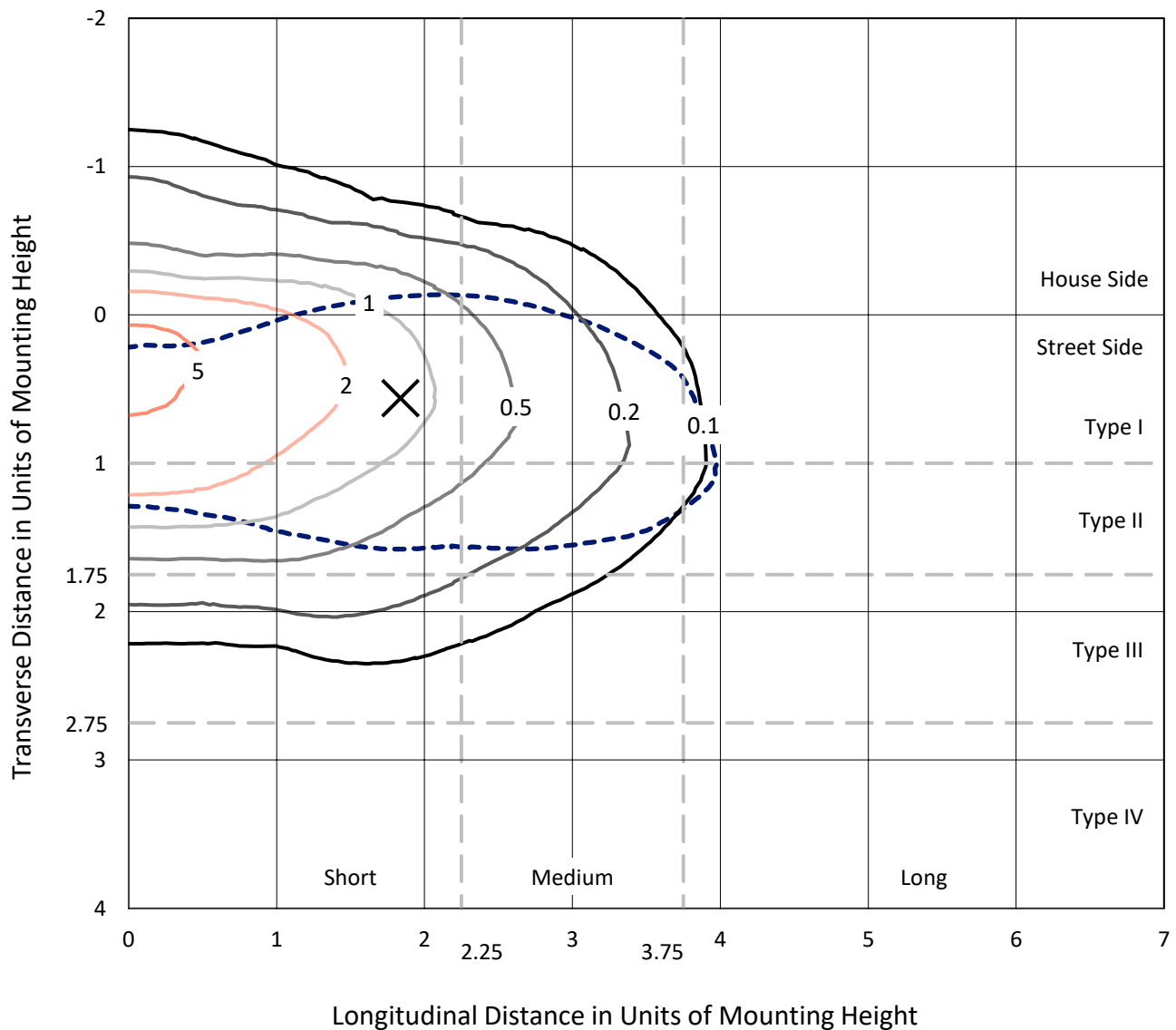
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

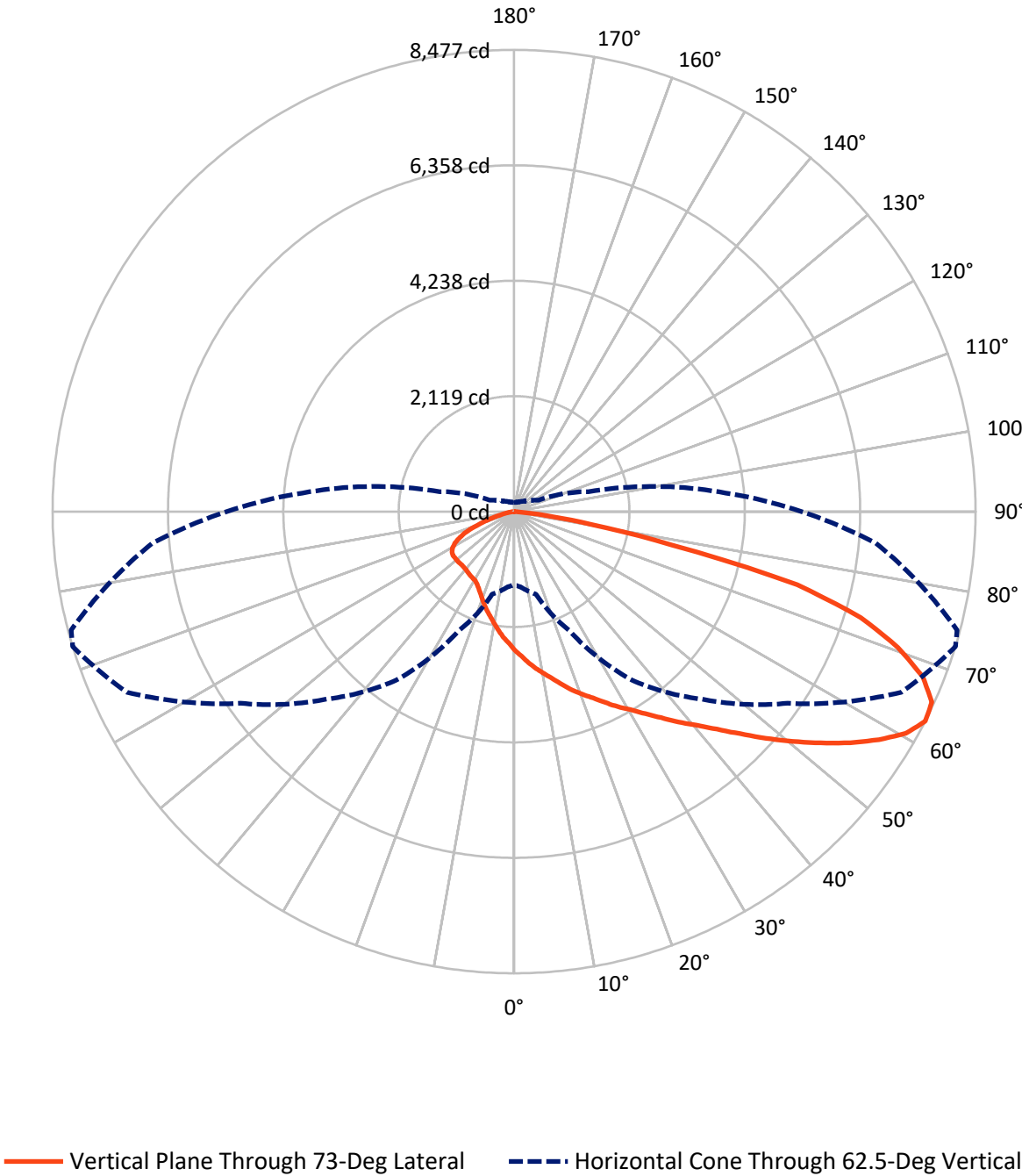
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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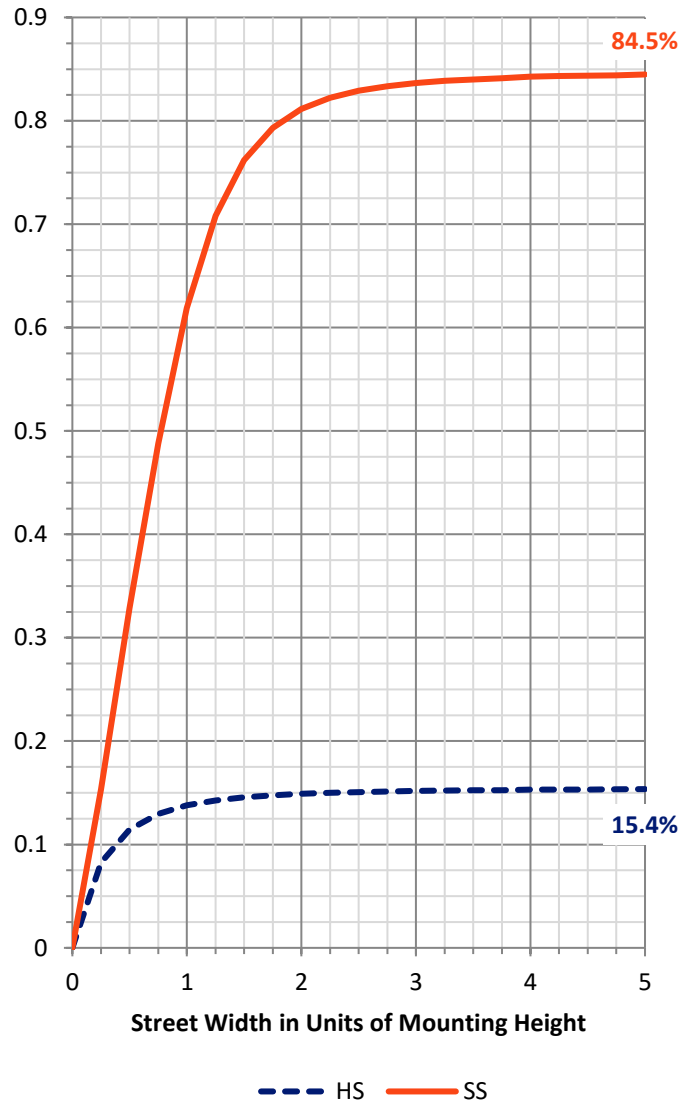
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2089.6	0.0	2089.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	11390.4	0.0	11390.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	13480.0	0.0	13480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	1.8
10°-20°	744.1	5.5
20°-30°	1238.5	9.2
30°-40°	1868.8	13.9
40°-50°	2612.0	19.4
50°-60°	2885.2	21.4
60°-70°	2513.4	18.6
70°-80°	1269.6	9.4
80°-90°	101.9	0.8
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°	13480.0	100.0
0°-180°	13480.0	100.0

Coefficient of Utilization



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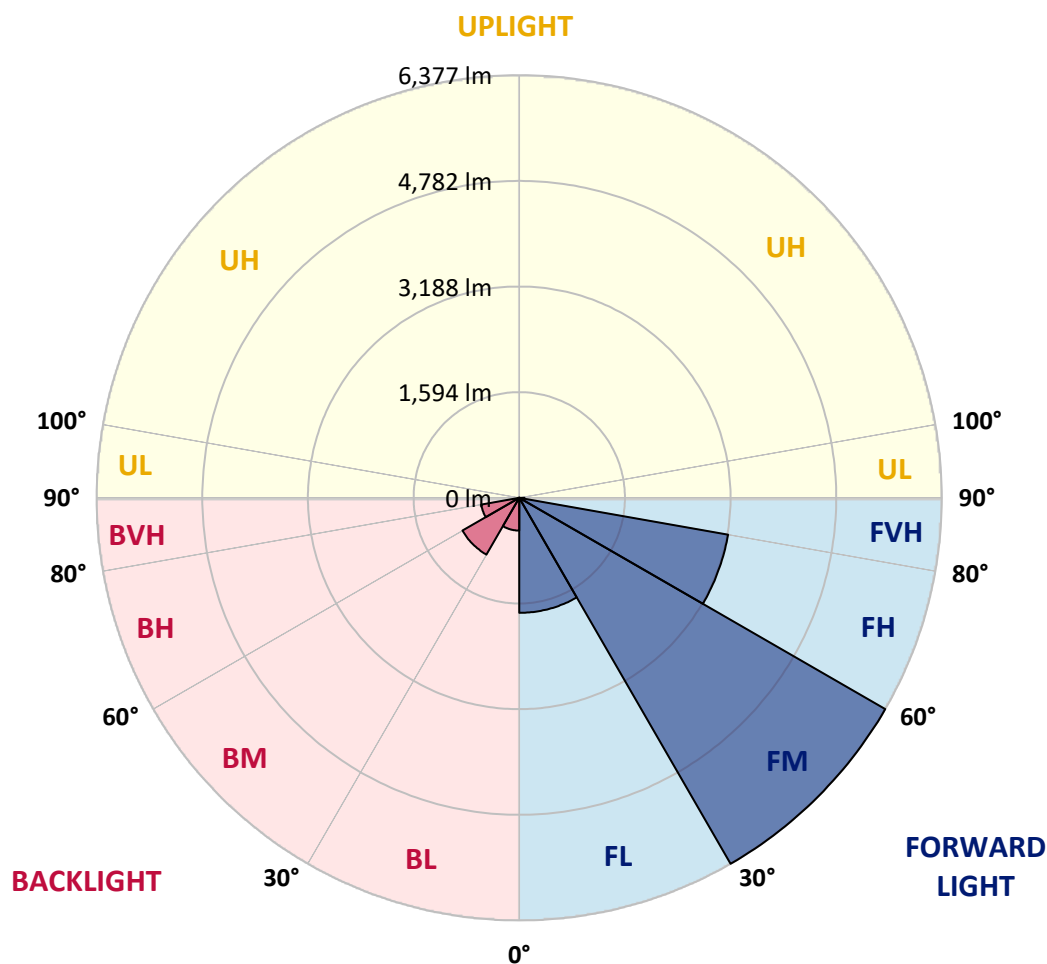
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1735.3	12.9			
FM	(30°-60°)	6376.5	47.3			
FH	(60°-80°)	3199.7	23.7			G2/5000
FVH	(80°-90°)	78.9	0.6			G1/100
BL	(0°-30°)	493.9	3.7	B1/500		
BM	(30°-60°)	989.4	7.3	B1/1000		
BH	(60°-80°)	583.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	23.0	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5
2.5°	2904.9	2937.2	2919.6	2931.4	2872.6	2834.4	2790.4	2705.2	2658.2	2652.3	2596.5
5°	3330.8	3366.1	3336.7	3327.9	3225.1	3137.0	3037.1	2887.3	2787.4	2769.8	2646.5
7.5°	3756.7	3789.0	3753.8	3727.4	3589.3	3433.6	3286.8	3066.5	2910.8	2881.4	2687.6
10°	4056.3	4085.7	4059.3	4032.8	3888.9	3730.3	3521.8	3233.9	3022.4	2975.4	2714.0
12.5°	4282.5	4300.1	4288.4	4264.9	4129.8	3959.4	3759.7	3421.9	3148.7	3090.0	2755.1
15°	4467.6	4496.9	4482.2	4464.6	4335.4	4165.0	3974.1	3618.7	3295.6	3222.2	2816.8
17.5°	4590.9	4611.5	4614.4	4614.4	4499.9	4332.4	4147.4	3797.9	3442.5	3348.5	2875.6
20°	4646.7	4670.2	4684.9	4708.4	4614.4	4470.5	4282.5	3950.6	3580.5	3474.8	2931.4
22.5°	4673.2	4693.7	4731.9	4784.8	4708.4	4588.0	4414.7	4091.6	3718.6	3606.9	2996.0
25°	4693.7	4720.2	4776.0	4875.8	4823.0	4720.2	4570.4	4253.1	3883.0	3768.5	3090.0
27.5°	4749.5	4781.8	4834.7	4955.1	4890.5	4840.6	4734.8	4426.4	4056.3	3938.8	3204.5
30°	4943.4	4969.8	4966.9	5043.3	4963.9	4949.3	4875.8	4593.9	4223.8	4106.3	3339.6
32.5°	5295.9	5322.3	5257.7	5228.3	5055.0	5057.9	5028.6	4773.0	4423.5	4303.1	3495.3
35°	5674.8	5704.1	5619.0	5569.0	5278.2	5193.1	5207.7	4996.3	4646.7	4526.3	3689.2
37.5°	6012.5	6047.8	5974.4	5900.9	5607.2	5410.4	5407.5	5245.9	4902.3	4778.9	3903.6
40°	6197.6	6238.7	6282.8	6241.6	5933.2	5715.9	5621.9	5501.5	5154.9	5028.6	4135.6
42.5°	6285.7	6400.3	6479.6	6453.1	6200.5	5980.2	5868.6	5768.8	5463.3	5339.9	4411.7
45°	6039.0	6041.9	6209.3	6353.3	6306.3	6159.4	6138.8	6068.3	5815.7	5698.3	4723.1
47.5°	5730.6	5707.1	5824.6	6080.1	6212.3	6250.5	6370.9	6400.3	6218.1	6100.7	5040.3
50°	4990.4	5005.1	5386.9	5754.1	6012.5	6259.3	6535.4	6741.0	6632.3	6520.7	5375.2
52.5°	4059.3	4094.5	4532.2	5339.9	5748.2	6171.2	6632.3	7081.7	7055.3	6949.5	5710.0
55°	3254.5	3310.3	3774.4	4649.7	5410.4	5974.4	6673.4	7393.0	7492.9	7396.0	6039.0
57.5°	2487.8	2546.6	2937.2	3836.0	4978.6	5654.2	6644.0	7666.2	7901.2	7839.5	6341.5
60°	1874.0	1932.7	2182.4	3110.5	4438.2	5295.9	6497.2	7845.4	8268.3	8203.7	6561.8
62.5°	1342.3	1389.3	1574.4	2420.3	3780.2	4870.0	6135.9	7848.3	8476.9	8424.0	6667.5
65°	966.4	966.4	1116.2	1727.1	3163.4	4358.9	5589.6	7487.0	8432.8	8418.1	6594.1
67.5°	696.1	702.0	822.4	1207.2	2523.1	3739.1	4881.7	6843.8	8092.1	8165.5	6329.8
70°	493.5	508.1	564.0	843.0	1906.3	2951.9	4123.9	6000.8	7478.2	7607.5	5818.7
72.5°	381.8	390.7	428.8	587.4	1392.3	2194.1	3286.8	5060.9	6658.7	6805.6	5122.6
75°	293.7	302.5	331.9	431.8	998.7	1539.1	2335.1	3927.1	5369.3	5630.7	4115.1
77.5°	214.4	226.2	246.7	314.3	581.6	978.1	1415.8	2208.8	2963.7	3087.0	2155.9
80°	99.9	114.6	143.9	202.7	314.3	461.1	502.3	851.8	1424.6	1489.2	1169.0
82.5°	55.8	70.5	82.2	123.4	158.6	164.5	170.4	214.4	537.5	593.3	490.5
85°	26.4	35.2	38.2	52.9	52.9	47.0	55.8	41.1	88.1	105.7	102.8
87.5°	0.0	2.9	5.9	14.7	11.7	8.8	8.8	8.8	8.8	11.7	8.8
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°	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5	2552.5
2.5°	2570.1	2531.9	2443.8	2367.4	2317.5	2273.4	2214.7	2188.2	2141.3	2150.1	2123.6
5°	2584.8	2514.3	2358.6	2214.7	2108.9	2015.0	1912.1	1853.4	1788.8	1782.9	1762.3
7.5°	2593.6	2484.9	2261.7	2059.0	1897.5	1753.5	1615.5	1539.1	1459.8	1442.2	1424.6
10°	2584.8	2440.9	2161.8	1897.5	1683.0	1503.9	1348.2	1251.3	1169.0	1148.5	1130.8
12.5°	2593.6	2417.4	2067.8	1747.7	1492.1	1289.5	1113.2	1013.3	937.0	916.4	904.7
15°	2614.1	2402.7	1988.5	1612.5	1321.8	1095.6	922.3	837.1	775.4	754.9	749.0
17.5°	2631.8	2388.0	1903.3	1480.4	1151.4	925.2	775.4	704.9	652.1	631.5	625.6
20°	2655.3	2367.4	1818.2	1354.1	1001.6	790.1	657.9	596.3	555.1	540.5	537.5
22.5°	2675.8	2352.7	1738.8	1227.8	863.6	681.4	569.8	519.9	490.5	475.8	475.8
25°	2728.7	2358.6	1671.3	1110.3	760.7	596.3	502.3	464.1	440.6	431.8	431.8
27.5°	2790.4	2382.1	1618.4	1010.4	672.6	531.6	455.3	423.0	411.2	399.5	402.4
30°	2878.5	2429.1	1583.2	928.2	608.0	481.7	417.1	393.6	381.8	378.9	378.9
32.5°	2990.1	2505.5	1580.2	875.3	561.0	443.5	390.7	370.1	364.2	361.3	361.3
35°	3122.3	2573.0	1562.6	851.8	531.6	417.1	370.1	355.4	352.5	352.5	352.5
37.5°	3280.9	2684.6	1550.9	819.5	517.0	402.4	355.4	343.7	343.7	343.7	343.7
40°	3445.4	2775.7	1533.2	790.1	511.1	393.6	346.6	331.9	331.9	331.9	331.9
42.5°	3642.2	2907.9	1527.4	775.4	502.3	387.7	334.8	317.2	320.2	320.2	323.1
45°	3880.1	3057.7	1524.4	760.7	499.3	381.8	323.1	302.5	305.5	302.5	302.5
47.5°	4121.0	3231.0	1533.2	751.9	496.4	376.0	314.3	287.9	287.9	284.9	284.9
50°	4373.6	3389.6	1539.1	743.1	490.5	364.2	299.6	276.1	270.2	264.4	267.3
52.5°	4611.5	3536.4	1542.1	728.4	472.9	346.6	287.9	261.4	252.6	243.8	246.7
55°	4849.4	3677.4	1547.9	710.8	449.4	329.0	273.2	246.7	235.0	223.2	223.2
57.5°	5063.8	3800.8	1533.2	666.8	423.0	311.3	258.5	229.1	211.5	199.7	199.7
60°	5210.7	3888.9	1489.2	602.1	387.7	290.8	243.8	211.5	190.9	182.1	182.1
62.5°	5281.2	3903.6	1409.9	496.4	343.7	270.2	226.2	193.9	176.2	170.4	170.4
65°	5213.6	3839.0	1286.5	373.0	296.7	246.7	208.5	179.2	161.5	146.9	146.9
67.5°	4978.6	3656.9	1116.2	282.0	252.6	223.2	190.9	164.5	143.9	132.2	132.2
70°	4505.7	3278.0	863.6	226.2	214.4	193.9	173.3	146.9	129.2	114.6	114.6
72.5°	3886.0	2778.6	608.0	182.1	182.1	164.5	146.9	129.2	111.6	99.9	99.9
75°	2981.3	2056.1	408.3	146.9	149.8	138.1	120.4	105.7	94.0	85.2	85.2
77.5°	1627.2	1016.3	249.7	108.7	111.6	105.7	94.0	85.2	79.3	70.5	70.5
80°	790.1	446.5	143.9	76.4	79.3	76.4	70.5	61.7	61.7	55.8	55.8
82.5°	331.9	167.4	76.4	52.9	52.9	47.0	44.1	44.1	44.1	41.1	41.1
85°	82.2	32.3	32.3	29.4	29.4	29.4	26.4	26.4	26.4	20.6	23.5
87.5°	11.7	11.7	11.7	11.7	11.7	11.7	8.8	2.9	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)