

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: P841149

Luminaire Tested: **ARCH4-140-722-U-T3-HSS**

Issue Date: 5/27/2024

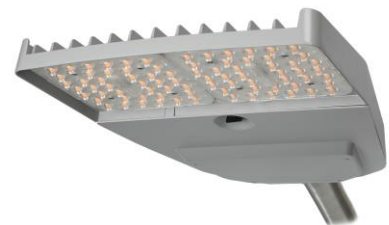
Test Information

Test Method: LM-79-08
Report Number: P841149
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: ARCH4-140-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA 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: 13847 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 141.3
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

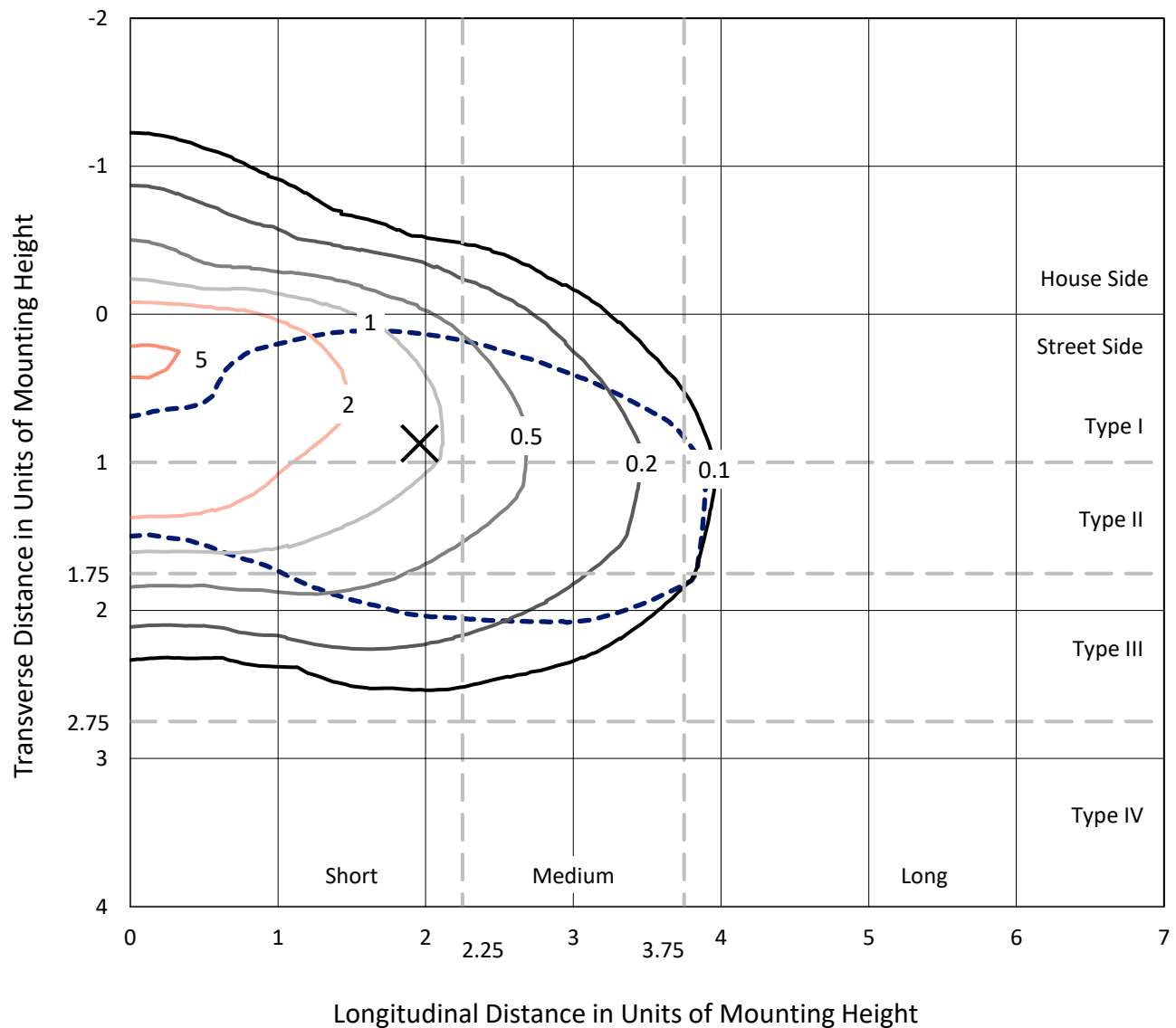


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Iso-Footcandle Lines of Horizontal Illumination

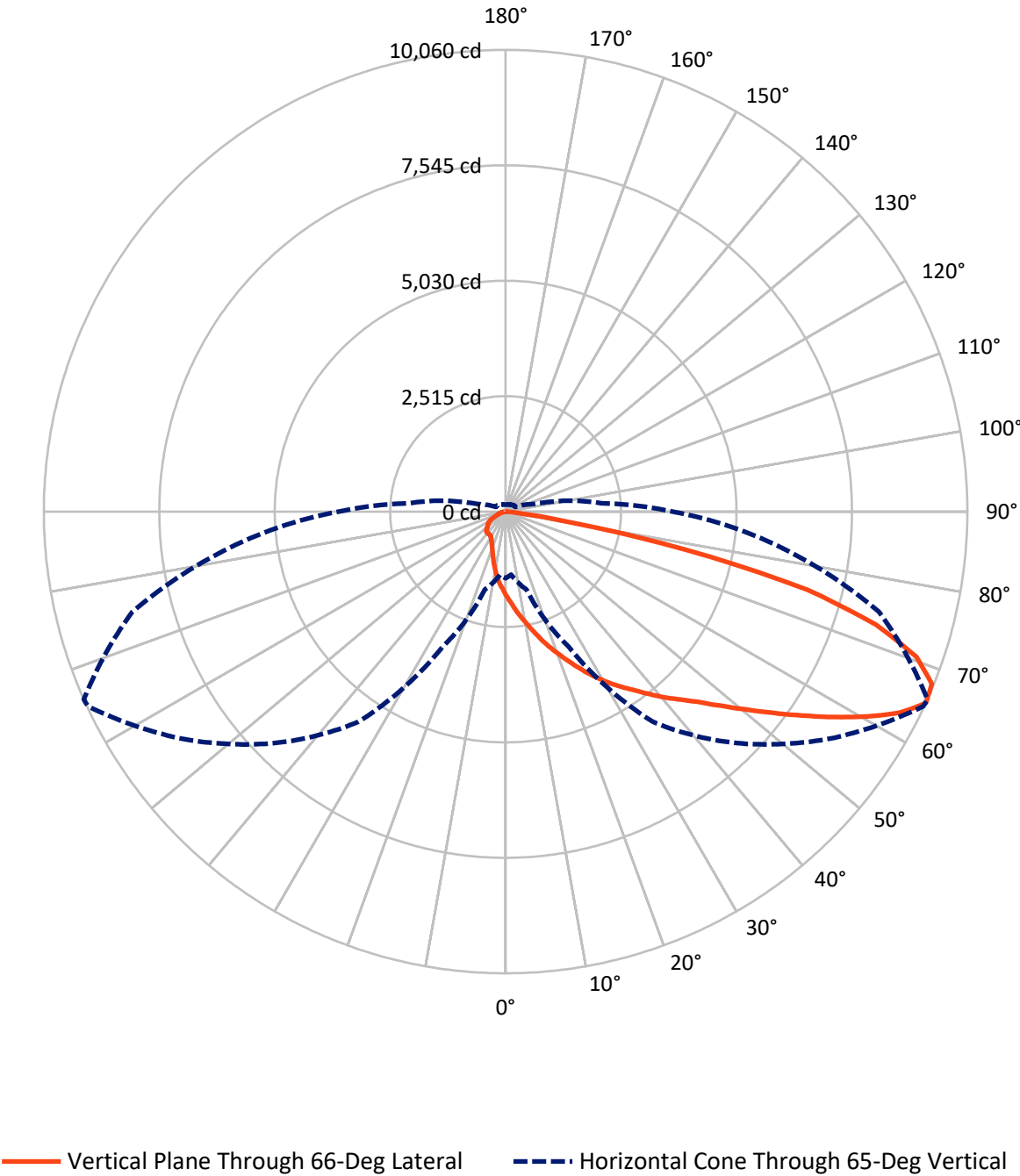
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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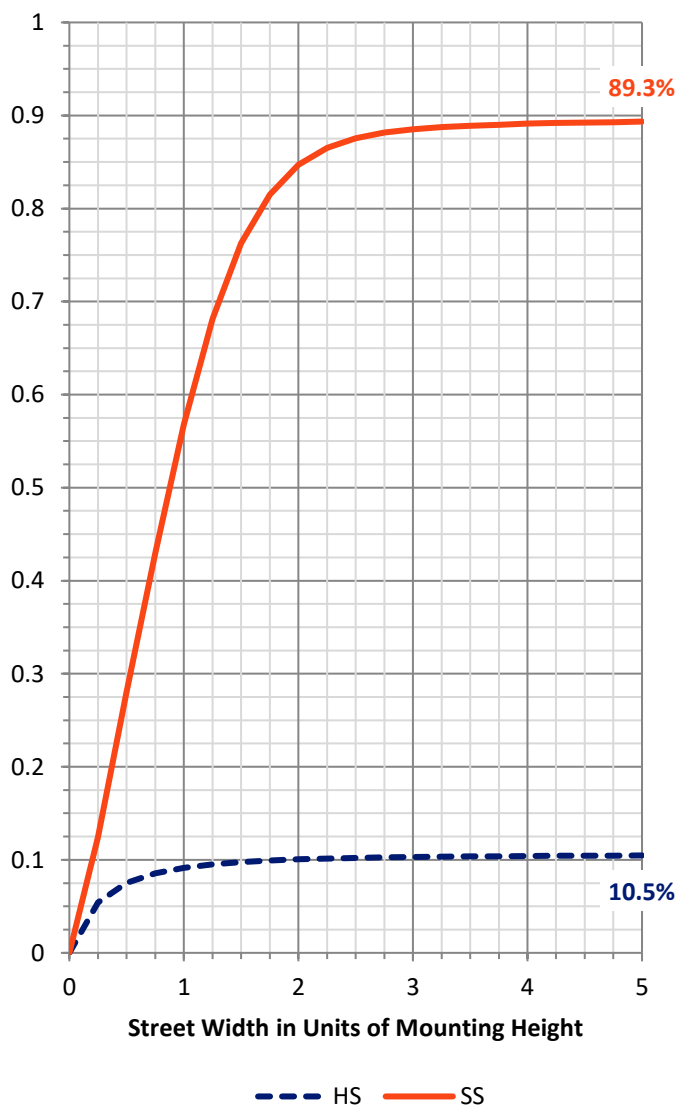
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1464.6	0.0	1464.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	12382.4	0.0	12382.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	13847.0	0.0	13847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	1.3
10°-20°	589.5	4.3
20°-30°	1066.6	7.7
30°-40°	1667.9	12.0
40°-50°	2530.2	18.3
50°-60°	3214.7	23.2
60°-70°	3003.9	21.7
70°-80°	1492.9	10.8
80°-90°	100.3	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°	13847.0	100.0
0°-180°	13847.0	100.0

Coefficient of Utilization



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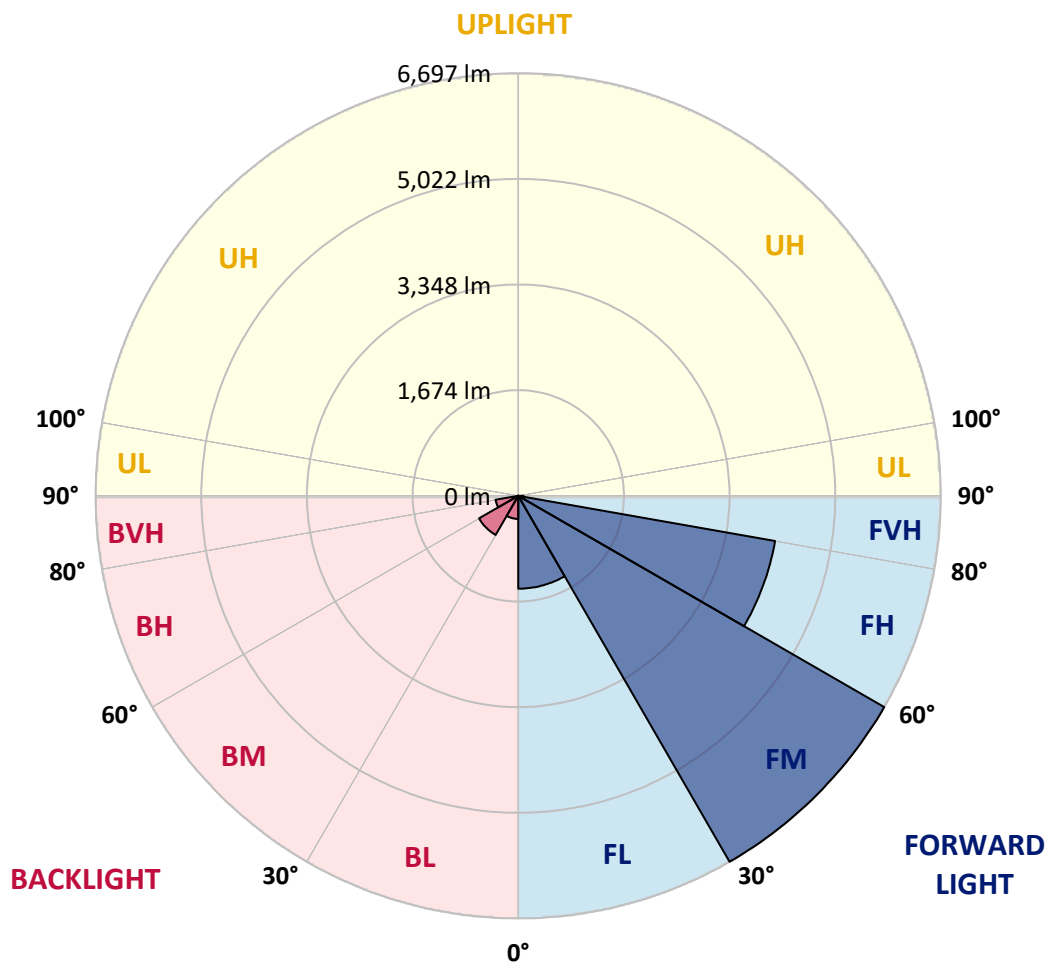
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1471.2	10.6			
FM	(30°-60°)	6696.6	48.4			
FH	(60°-80°)	4132.0	29.8			G2/5000
FVH	(80°-90°)	82.5	0.6			G1/100
BL	(0°-30°)	365.8	2.6	B1/500		
BM	(30°-60°)	716.4	5.2	B1/1000		
BH	(60°-80°)	364.7	2.6	B1/500		G1/500
BVH	(80°-90°)	17.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6
2.5°	2140.4	2157.8	2166.6	2169.5	2102.7	2073.6	2044.6	1977.8	1963.3	1925.5	1876.1
5°	2518.0	2541.2	2535.4	2523.8	2442.5	2349.5	2274.0	2149.1	2128.8	2038.8	1928.4
7.5°	2889.7	2910.0	2904.2	2860.7	2770.6	2640.0	2515.1	2332.1	2303.1	2157.8	1980.7
10°	3200.5	3217.9	3215.0	3171.4	3064.0	2904.2	2753.2	2509.3	2474.4	2268.2	2024.3
12.5°	3456.0	3479.3	3476.4	3447.3	3351.5	3177.2	3005.9	2712.6	2669.0	2401.8	2085.2
15°	3656.4	3685.5	3685.5	3673.9	3607.1	3461.9	3267.3	2936.2	2883.9	2555.7	2160.8
17.5°	3778.4	3801.6	3822.0	3842.3	3795.8	3685.5	3508.3	3159.8	3104.6	2706.8	2239.2
20°	3842.3	3865.5	3880.1	3923.6	3932.3	3877.2	3737.8	3380.5	3322.4	2878.1	2329.2
22.5°	3946.9	3967.2	3970.1	4007.8	4025.3	4039.8	3952.7	3598.4	3551.9	3066.9	2430.8
25°	4121.1	4144.3	4135.6	4153.1	4156.0	4173.4	4164.7	3848.1	3801.6	3281.8	2552.8
27.5°	4344.7	4373.8	4368.0	4350.5	4324.4	4309.9	4347.6	4100.8	4057.2	3496.7	2677.7
30°	4585.8	4620.6	4611.9	4577.1	4507.4	4446.4	4498.7	4338.9	4298.3	3717.4	2817.1
32.5°	4829.7	4870.4	4867.5	4809.4	4690.3	4585.8	4664.2	4562.6	4533.5	3955.6	2968.1
35°	4989.5	5041.8	5035.9	5001.1	4847.2	4757.1	4853.0	4792.0	4771.7	4246.0	3185.9
37.5°	5248.0	5303.1	5253.8	5166.6	4989.5	4943.0	5059.2	5050.5	5035.9	4553.8	3415.4
40°	5875.3	5956.6	5825.9	5468.7	5178.3	5137.6	5303.1	5338.0	5323.5	4858.8	3621.6
42.5°	6531.6	6653.6	6450.3	5956.6	5521.0	5372.8	5570.3	5619.7	5602.3	5120.2	3807.5
45°	6929.5	6981.8	6778.5	6395.1	6127.9	5657.5	5854.9	5936.3	5921.7	5433.8	4045.6
47.5°	7254.8	7234.5	7002.1	6743.6	6793.0	6058.2	6177.3	6337.0	6325.4	5779.4	4307.0
50°	7324.5	7278.0	7185.1	7022.4	7153.1	6464.8	6517.1	6793.0	6781.4	6162.8	4571.3
52.5°	6833.7	6772.7	7025.4	7161.9	7118.3	6761.1	6891.8	7292.5	7286.7	6578.1	4823.9
55°	5608.1	5558.7	6238.3	6944.0	7080.5	6970.2	7307.1	7812.4	7844.3	7019.5	5053.4
57.5°	4411.5	4359.3	5027.2	6398.0	6941.1	7161.9	7792.1	8407.8	8448.4	7498.7	5271.2
60°	3517.0	3438.6	3949.8	5538.4	6679.7	7310.0	8259.7	9061.2	9067.0	7937.3	5404.8
62.5°	2390.2	2303.1	2869.4	4449.3	6241.2	7333.2	8619.8	9624.6	9647.9	8265.5	5428.0
65°	1452.1	1379.5	1762.9	3249.8	5593.6	7135.7	8625.6	10040.0	10060.3	8416.5	5288.6
67.5°	842.2	813.2	1007.8	2024.3	4519.0	6604.2	8262.6	9976.1	10013.8	8352.6	4972.1
70°	490.8	487.9	560.5	1002.0	3188.9	5550.0	7452.3	9438.8	9494.0	8018.6	4487.0
72.5°	360.1	365.9	395.0	537.3	1847.1	3996.2	6310.9	8358.4	8442.6	7365.1	3795.8
75°	284.6	287.5	313.7	365.9	970.0	2259.5	4728.1	6708.8	6775.6	6200.5	2965.2
77.5°	212.0	217.8	238.1	258.5	450.2	1036.8	2660.3	4132.7	4022.4	3403.8	1431.8
80°	153.9	168.4	177.2	185.9	238.1	400.8	798.7	1440.5	1428.9	1487.0	676.7
82.5°	98.7	110.4	119.1	124.9	142.3	191.7	238.1	322.4	348.5	577.9	270.1
85°	43.6	49.4	55.2	66.8	61.0	66.8	98.7	63.9	55.2	87.1	49.4
87.5°	0.0	0.0	8.7	14.5	11.6	5.8	17.4	11.6	8.7	8.7	8.7
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°	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6
2.5°	1850.0	1818.1	1751.3	1687.4	1649.6	1600.2	1556.7	1516.0	1513.1	1501.5	1481.2
5°	1873.2	1812.2	1687.4	1568.3	1478.3	1382.4	1301.1	1237.2	1214.0	1196.5	1173.3
7.5°	1896.5	1800.6	1614.8	1440.5	1298.2	1164.6	1068.8	981.6	955.5	932.3	917.7
10°	1905.2	1780.3	1530.5	1298.2	1112.3	970.0	868.4	804.5	781.2	769.6	760.9
12.5°	1931.3	1768.7	1452.1	1164.6	949.7	819.0	746.4	708.6	699.9	691.2	682.5
15°	1966.2	1768.7	1373.7	1033.9	821.9	717.3	673.8	647.6	641.8	638.9	633.1
17.5°	2003.9	1768.7	1298.2	923.5	729.0	650.5	618.6	604.1	601.2	598.3	595.4
20°	2056.2	1771.6	1216.9	827.7	662.2	601.2	575.0	557.6	554.7	551.8	551.8
22.5°	2108.5	1777.4	1138.5	755.1	618.6	563.4	531.5	514.1	508.2	508.2	508.2
25°	2175.3	1794.8	1065.9	694.1	580.8	528.6	487.9	473.4	470.5	470.5	467.6
27.5°	2253.7	1815.1	1002.0	647.6	543.1	487.9	447.3	432.7	426.9	426.9	424.0
30°	2337.9	1835.5	949.7	612.8	505.3	447.3	409.5	392.1	386.3	389.2	386.3
32.5°	2430.8	1864.5	909.0	589.6	470.5	412.4	377.6	357.2	354.3	354.3	351.4
35°	2587.7	1945.8	903.2	577.9	441.4	386.3	351.4	331.1	328.2	328.2	325.3
37.5°	2756.1	2038.8	929.4	572.1	418.2	363.0	331.1	310.8	307.8	307.8	307.8
40°	2898.4	2108.5	958.4	572.1	403.7	342.7	313.7	296.2	296.2	296.2	296.2
42.5°	2994.3	2114.3	952.6	572.1	392.1	328.2	302.0	284.6	284.6	287.5	284.6
45°	3136.6	2143.3	929.4	563.4	383.4	316.6	290.4	275.9	273.0	275.9	275.9
47.5°	3305.0	2195.6	906.1	528.6	380.5	304.9	281.7	264.3	261.4	264.3	261.4
50°	3464.8	2242.1	894.5	482.1	374.6	293.3	270.1	252.7	249.8	252.7	249.8
52.5°	3598.4	2262.4	874.2	450.2	360.1	281.7	258.5	241.1	235.2	238.1	238.1
55°	3705.8	2256.6	845.1	424.0	334.0	270.1	244.0	229.4	220.7	220.7	217.8
57.5°	3804.6	2259.5	819.0	397.9	304.9	252.7	232.3	214.9	203.3	200.4	197.5
60°	3842.3	2245.0	772.5	363.0	275.9	238.1	217.8	197.5	185.9	183.0	180.1
62.5°	3790.0	2192.7	711.5	302.0	249.8	220.7	203.3	183.0	171.4	168.4	165.5
65°	3641.9	2094.0	618.6	238.1	226.5	200.4	185.9	171.4	156.8	151.0	148.1
67.5°	3389.2	1951.6	502.4	191.7	200.4	183.0	174.3	156.8	139.4	133.6	130.7
70°	3029.1	1762.9	377.6	162.6	177.2	162.6	156.8	139.4	124.9	119.1	116.2
72.5°	2523.8	1457.9	264.3	139.4	153.9	142.3	136.5	124.9	110.4	101.6	101.6
75°	1908.1	1045.5	174.3	119.1	127.8	122.0	113.3	104.6	95.8	90.0	87.1
77.5°	821.9	406.6	107.5	90.0	104.6	101.6	90.0	84.2	81.3	75.5	75.5
80°	354.3	165.5	66.8	66.8	75.5	72.6	69.7	63.9	63.9	61.0	58.1
82.5°	130.7	66.8	40.7	49.4	55.2	49.4	49.4	49.4	49.4	46.5	46.5
85°	31.9	20.3	20.3	29.0	31.9	29.0	31.9	29.0	29.0	29.0	26.1
87.5°	8.7	8.7	11.6	11.6	11.6	11.6	11.6	8.7	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)