

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: P841008

Luminaire Tested: **ARCH4-120-722-U-T4W**

Issue Date: 5/27/2024

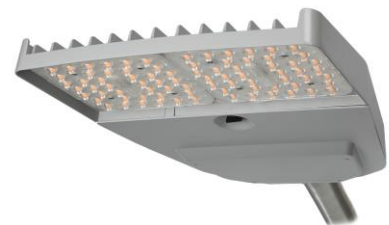
Test Information

Test Method: LM-79-08
Report Number: P841008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17542 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

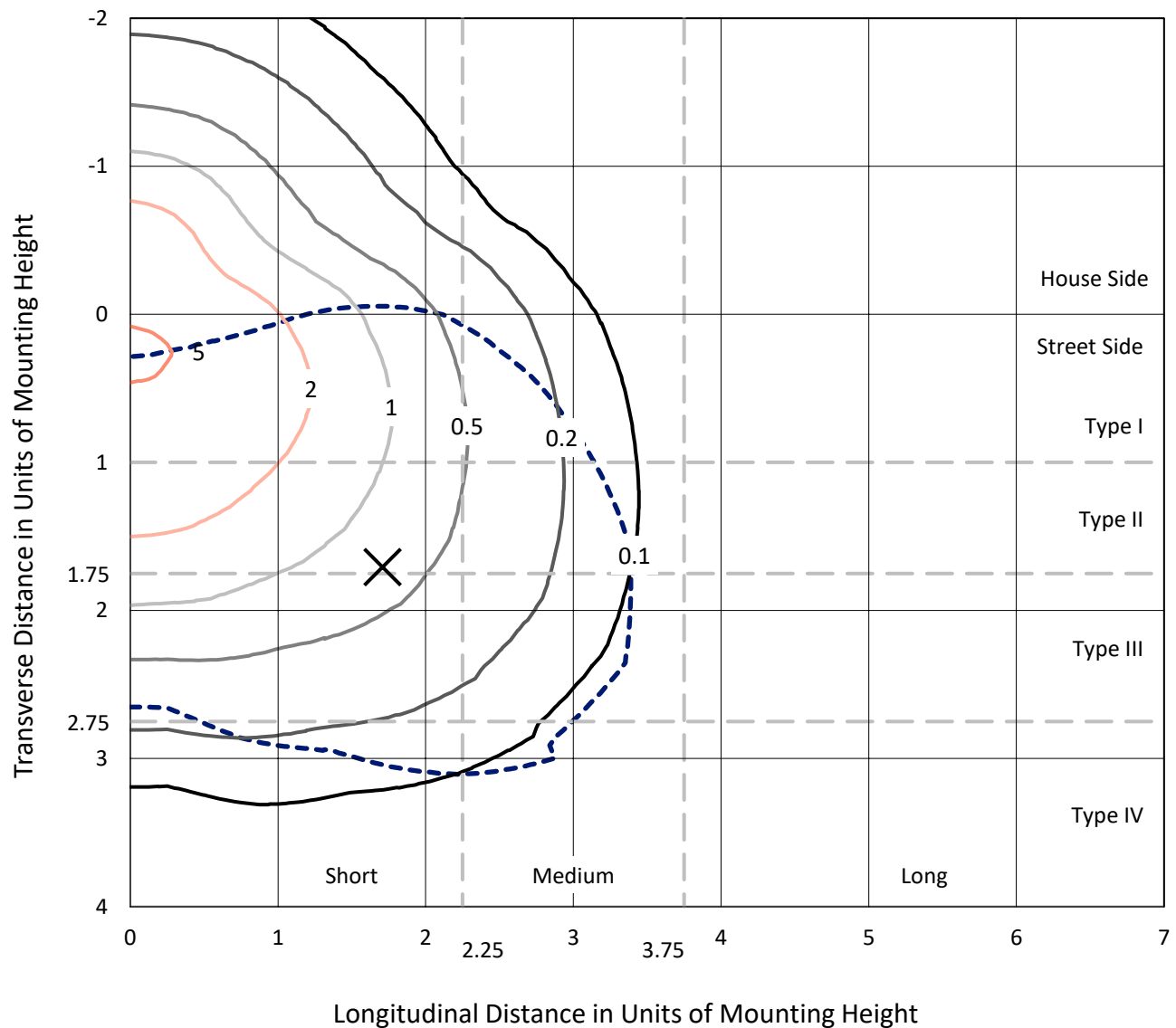
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

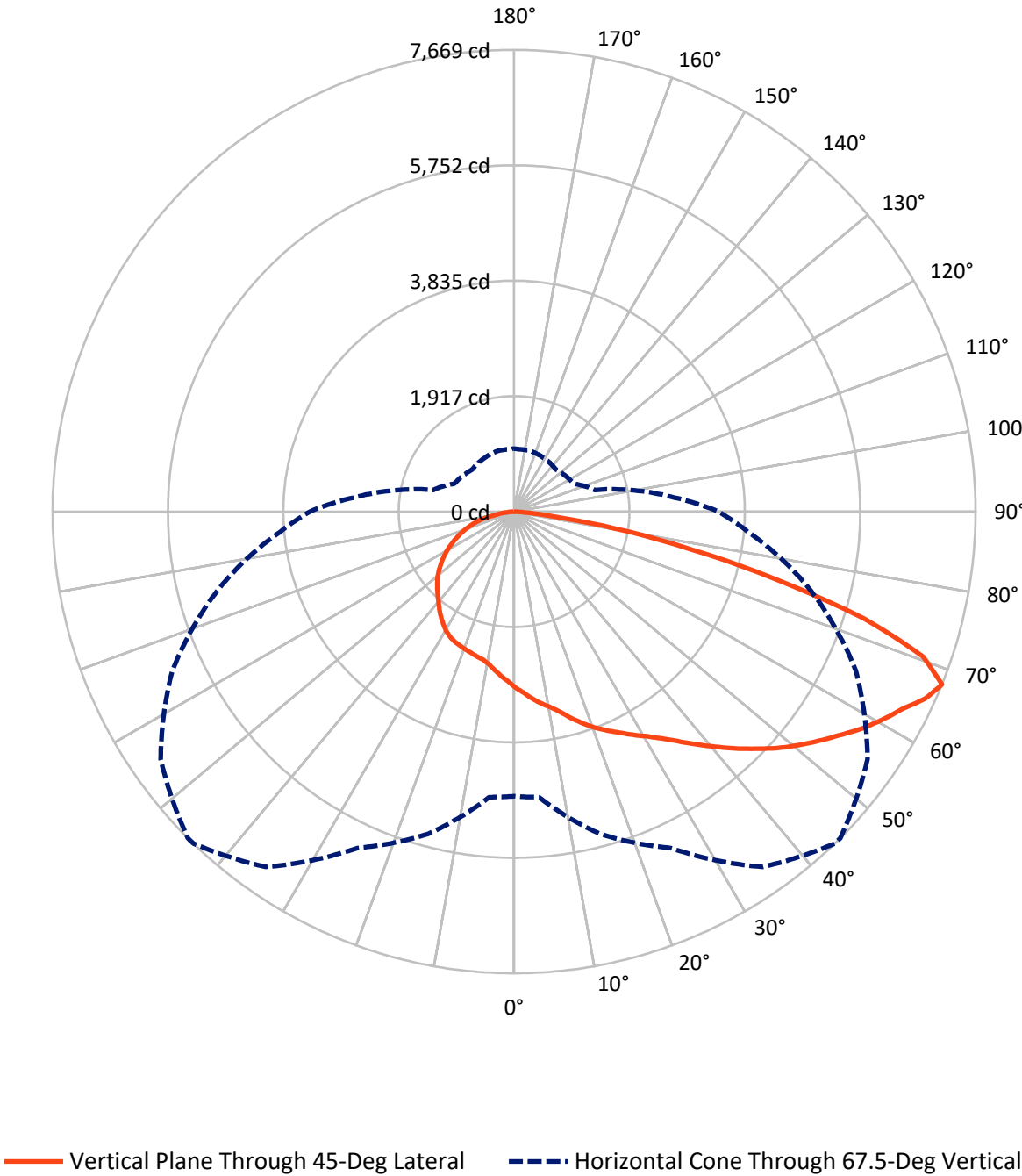
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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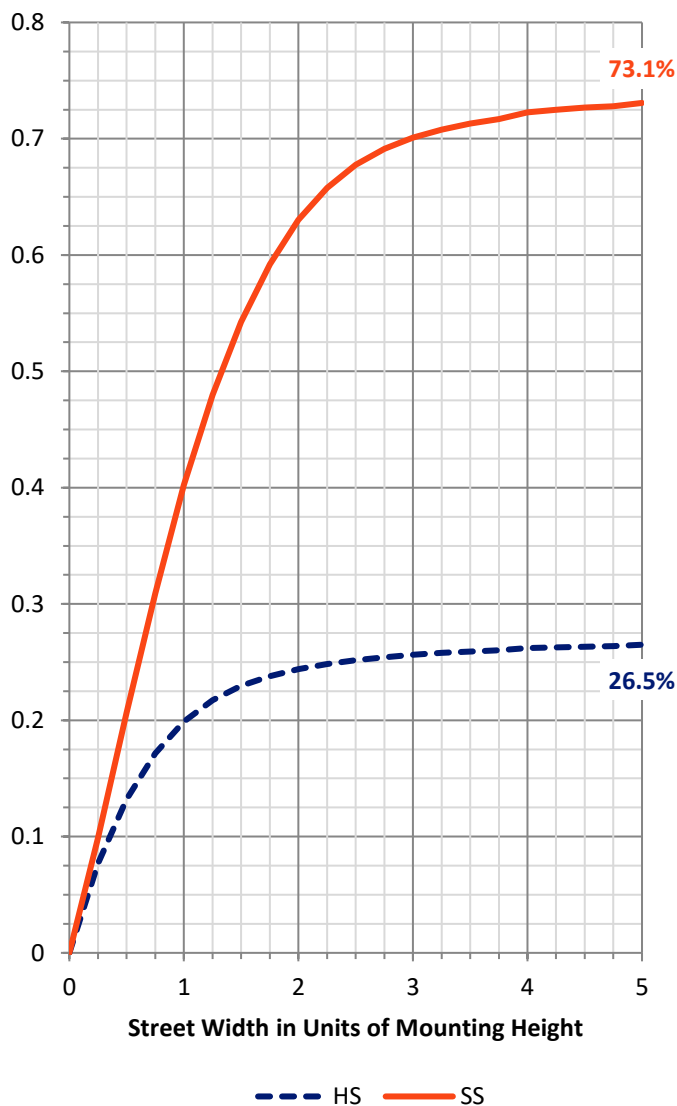
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4686.4	0.0	4686.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	12855.6	0.0	12855.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	17542.0	0.0	17542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	1.6
10°-20°	865.3	4.9
20°-30°	1493.6	8.5
30°-40°	2202.6	12.6
40°-50°	2984.1	17.0
50°-60°	3647.3	20.8
60°-70°	3761.6	21.4
70°-80°	2060.4	11.7
80°-90°	247.0	1.4
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°	17542.0	100.0
0°-180°	17542.0	100.0

Coefficient of Utilization



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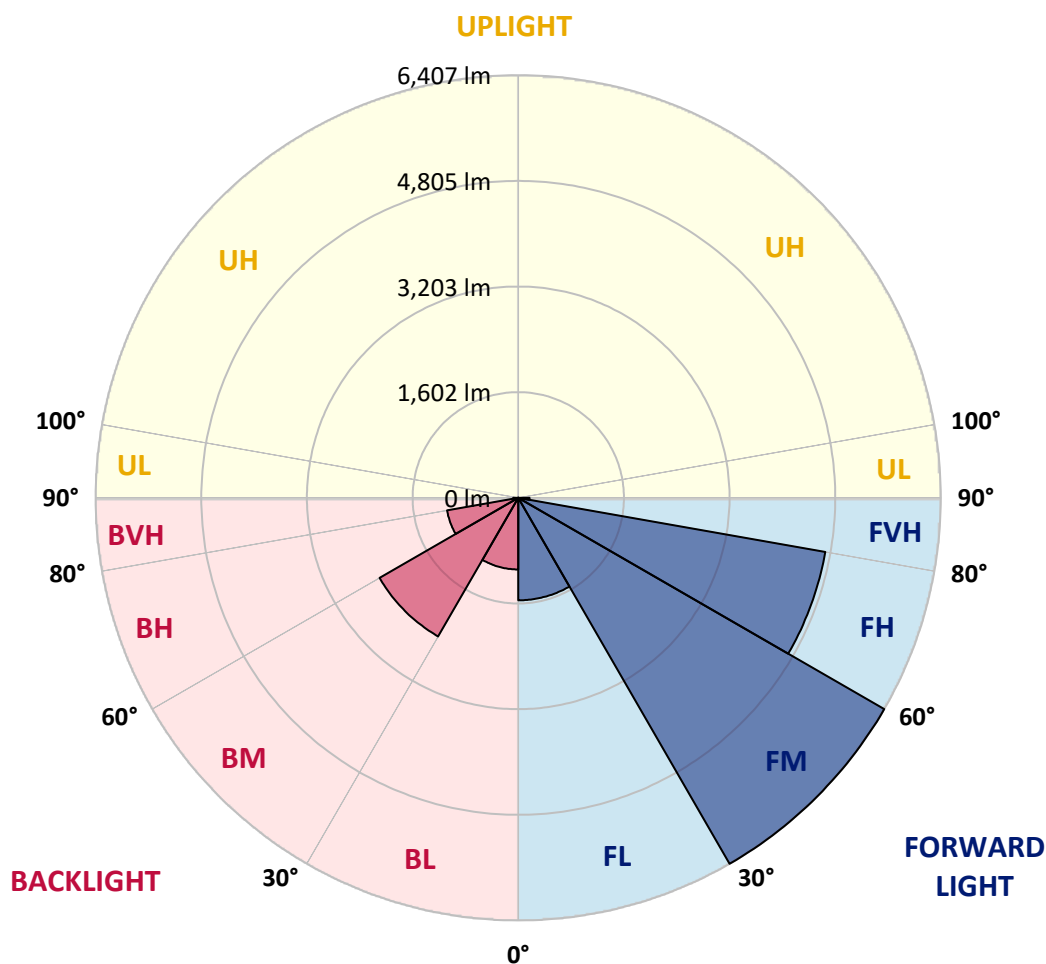
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1552.9	8.9			
FM	(30°-60°)	6406.5	36.5			
FH	(60°-80°)	4726.1	26.9			G2/5000
FVH	(80°-90°)	170.1	1.0			G2/225
BL	(0°-30°)	1086.1	6.2	B3/2500		
BM	(30°-60°)	2427.5	13.8	B2/2500		
BH	(60°-80°)	1095.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	76.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7
2.5°	3053.8	3051.1	3056.5	3037.8	3013.8	3011.1	3011.1	2995.1	2976.4	2939.0	2909.7
5°	3198.0	3192.6	3195.3	3168.6	3136.6	3120.5	3117.9	3083.2	3040.5	2981.7	2928.3
7.5°	3331.4	3326.1	3323.4	3294.1	3246.0	3219.3	3216.6	3165.9	3115.2	3024.4	2947.0
10°	3456.9	3451.5	3446.2	3406.2	3347.4	3307.4	3302.1	3238.0	3173.9	3061.8	2963.0
12.5°	3617.0	3606.4	3601.0	3553.0	3467.6	3424.9	3416.8	3331.4	3251.3	3115.2	2995.1
15°	3785.2	3777.2	3769.2	3723.8	3627.7	3571.7	3558.3	3451.5	3342.1	3184.6	3043.1
17.5°	3910.7	3902.7	3902.7	3862.6	3774.5	3710.5	3699.8	3571.7	3435.5	3248.7	3080.5
20°	3988.1	3980.1	3988.1	3964.1	3897.3	3843.9	3833.3	3691.8	3529.0	3307.4	3112.5
22.5°	4044.2	4036.1	4049.5	4038.8	3990.8	3958.7	3950.7	3811.9	3625.1	3368.8	3144.6
25°	4142.9	4142.9	4142.9	4124.2	4078.9	4068.2	4068.2	3948.1	3747.9	3448.9	3192.6
27.5°	4340.5	4329.8	4316.4	4263.0	4185.6	4183.0	4199.0	4086.9	3889.3	3553.0	3251.3
30°	4631.4	4626.1	4575.4	4463.3	4332.5	4319.1	4329.8	4236.4	4041.5	3662.4	3318.1
32.5°	5007.8	4989.1	4885.0	4716.8	4530.0	4468.6	4489.9	4391.2	4201.7	3774.5	3382.1
35°	5274.8	5280.1	5205.3	5053.2	4831.6	4668.8	4684.8	4564.7	4375.2	3900.0	3462.2
37.5°	5581.7	5600.4	5488.3	5373.5	5168.0	4890.4	4906.4	4743.5	4548.7	4057.5	3547.6
40°	6006.2	5968.8	5779.3	5643.1	5416.2	5122.6	5135.9	4943.7	4748.9	4207.0	3646.4
42.5°	6361.2	6294.5	6064.9	5891.4	5619.1	5368.2	5381.5	5160.0	4951.8	4372.5	3755.9
45°	6871.1	6686.9	6355.9	6270.4	5827.3	5608.4	5621.8	5389.5	5165.3	4548.7	3873.3
47.5°	7167.4	6873.7	6662.8	6617.5	6056.9	5856.7	5872.7	5632.5	5394.9	4748.9	3996.1
50°	7148.7	6959.2	6897.8	6785.6	6259.8	6088.9	6104.9	5883.4	5627.1	4946.4	4113.6
52.5°	7025.9	7060.6	7028.6	6841.7	6462.6	6313.2	6331.8	6131.6	5864.7	5130.6	4223.0
55°	7215.4	7239.4	7178.0	6932.5	6686.9	6537.4	6558.7	6393.2	6099.6	5293.4	4316.4
57.5°	7442.3	7356.9	7295.5	7092.6	6919.1	6780.3	6804.3	6660.2	6302.5	5424.2	4388.5
60°	7431.6	7252.8	7314.2	7103.3	7076.6	7004.5	7025.9	6879.1	6457.3	5520.3	4417.9
62.5°	6884.4	6788.3	7098.0	7025.9	7204.7	7204.7	7231.4	7012.5	6550.7	5560.4	4401.9
65°	5934.1	5939.4	6484.0	6783.0	7356.9	7479.7	7501.0	7095.3	6497.3	5442.9	4252.4
67.5°	4727.5	4762.2	5544.4	6166.3	7204.7	7666.5	7669.2	7170.0	6267.8	5111.9	3905.3
70°	3459.6	3486.2	4409.9	5165.3	6486.7	7252.8	7210.1	6959.2	5768.6	4535.3	3363.5
72.5°	2338.4	2362.4	3312.7	3966.7	5322.8	6177.0	6083.6	6150.3	4917.1	3726.5	2704.1
75°	1572.3	1601.6	2357.1	2837.6	3916.0	4690.2	4481.9	4658.1	3803.9	2821.6	1972.7
77.5°	990.4	1009.0	1497.5	1860.6	2674.7	3192.6	2984.4	2987.1	2191.6	1518.9	1059.8
80°	630.0	635.3	907.6	1073.1	1548.3	1919.3	1697.7	1380.1	987.7	806.2	632.7
82.5°	365.7	357.7	541.9	606.0	736.8	728.7	603.3	571.3	432.4	403.1	323.0
85°	146.8	136.1	237.6	221.6	224.2	237.6	176.2	176.2	141.5	109.4	80.1
87.5°	29.4	29.4	32.0	29.4	29.4	32.0	24.0	24.0	21.4	21.4	21.4
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°	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7
2.5°	2904.3	2899.0	2885.6	2850.9	2832.2	2821.6	2805.5	2800.2	2797.5	2800.2	2808.2
5°	2912.3	2893.6	2856.3	2800.2	2762.8	2738.8	2712.1	2701.4	2693.4	2693.4	2701.4
7.5°	2917.7	2888.3	2824.2	2741.5	2688.1	2650.7	2618.7	2605.3	2602.7	2610.7	2613.4
10°	2920.3	2877.6	2786.9	2682.8	2613.4	2565.3	2533.3	2525.3	2533.3	2549.3	2552.0
12.5°	2939.0	2880.3	2765.5	2642.7	2560.0	2511.9	2487.9	2487.9	2509.2	2538.6	2541.3
15°	2971.1	2899.0	2754.8	2610.7	2525.3	2482.6	2474.5	2487.9	2519.9	2565.3	2570.6
17.5°	2995.1	2909.7	2730.8	2568.0	2479.9	2453.2	2466.5	2498.6	2543.9	2605.3	2610.7
20°	3011.1	2909.7	2696.1	2517.3	2434.5	2429.2	2466.5	2517.3	2565.3	2637.4	2645.4
22.5°	3027.1	2904.3	2656.1	2455.9	2383.8	2399.8	2469.2	2533.3	2581.3	2658.7	2672.1
25°	3056.5	2912.3	2616.0	2394.5	2330.4	2375.8	2466.5	2543.9	2594.7	2674.7	2696.1
27.5°	3096.5	2931.0	2586.7	2338.4	2277.0	2338.4	2447.8	2541.3	2594.7	2672.1	2696.1
30°	3139.2	2952.4	2552.0	2277.0	2215.6	2285.0	2407.8	2511.9	2573.3	2645.4	2674.7
32.5°	3184.6	2976.4	2522.6	2210.3	2140.9	2212.9	2349.1	2466.5	2533.3	2600.0	2632.0
35°	3246.0	3019.1	2506.6	2156.9	2074.1	2138.2	2274.3	2407.8	2479.9	2541.3	2578.6
37.5°	3320.7	3072.5	2498.6	2103.5	2002.1	2055.4	2194.3	2335.7	2413.1	2463.9	2498.6
40°	3406.2	3139.2	2495.9	2052.8	1930.0	1970.0	2111.5	2253.0	2327.7	2367.8	2397.1
42.5°	3502.3	3214.0	2490.6	2002.1	1857.9	1889.9	2031.4	2170.2	2234.3	2269.0	2295.7
45°	3603.7	3288.7	2479.9	1940.7	1780.5	1817.9	1948.7	2071.5	2138.2	2167.6	2196.9
47.5°	3705.1	3363.5	2458.5	1871.3	1711.1	1745.8	1860.6	1967.4	2020.7	2047.4	2076.8
50°	3803.9	3430.2	2407.8	1791.2	1639.0	1671.1	1759.1	1831.2	1871.3	1892.6	1922.0
52.5°	3892.0	3475.6	2335.7	1697.7	1566.9	1583.0	1641.7	1703.1	1735.1	1737.8	1764.5
55°	3966.7	3499.6	2231.6	1601.6	1489.5	1492.2	1524.2	1572.3	1585.6	1575.0	1593.6
57.5°	4009.5	3486.2	2116.8	1502.9	1409.4	1398.8	1422.8	1446.8	1449.5	1422.8	1441.5
60°	4020.1	3424.9	1967.4	1404.1	1329.4	1300.0	1308.0	1302.7	1297.3	1286.7	1302.7
62.5°	3966.7	3294.1	1801.9	1308.0	1243.9	1198.6	1195.9	1193.2	1201.2	1203.9	1206.6
65°	3771.9	3048.5	1604.3	1209.2	1153.2	1091.8	1089.1	1121.2	1131.8	1115.8	1121.2
67.5°	3395.5	2672.1	1388.1	1094.5	1038.4	985.0	1006.4	1025.1	1043.7	1038.4	1043.7
70°	2861.6	2194.3	1190.6	966.3	912.9	883.6	907.6	923.6	926.3	920.9	926.3
72.5°	2250.3	1713.8	1006.4	835.5	787.5	774.1	803.5	816.8	840.9	851.5	854.2
75°	1625.7	1265.3	824.8	694.0	654.0	654.0	680.7	704.7	726.1	712.7	704.7
77.5°	907.6	755.4	592.6	477.8	485.8	523.2	533.9	560.6	581.9	579.3	573.9
80°	549.9	472.5	400.4	309.7	307.0	336.3	405.8	451.1	461.8	437.8	435.1
82.5°	285.6	248.3	213.6	173.5	192.2	224.2	234.9	283.0	312.3	301.6	315.0
85°	72.1	69.4	77.4	80.1	98.8	109.4	120.1	141.5	93.4	45.4	45.4
87.5°	21.4	21.4	26.7	26.7	34.7	42.7	40.0	40.0	21.4	2.7	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)