

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: P840934

Luminaire Tested: **ARCH4-110-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16733 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 112.6
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



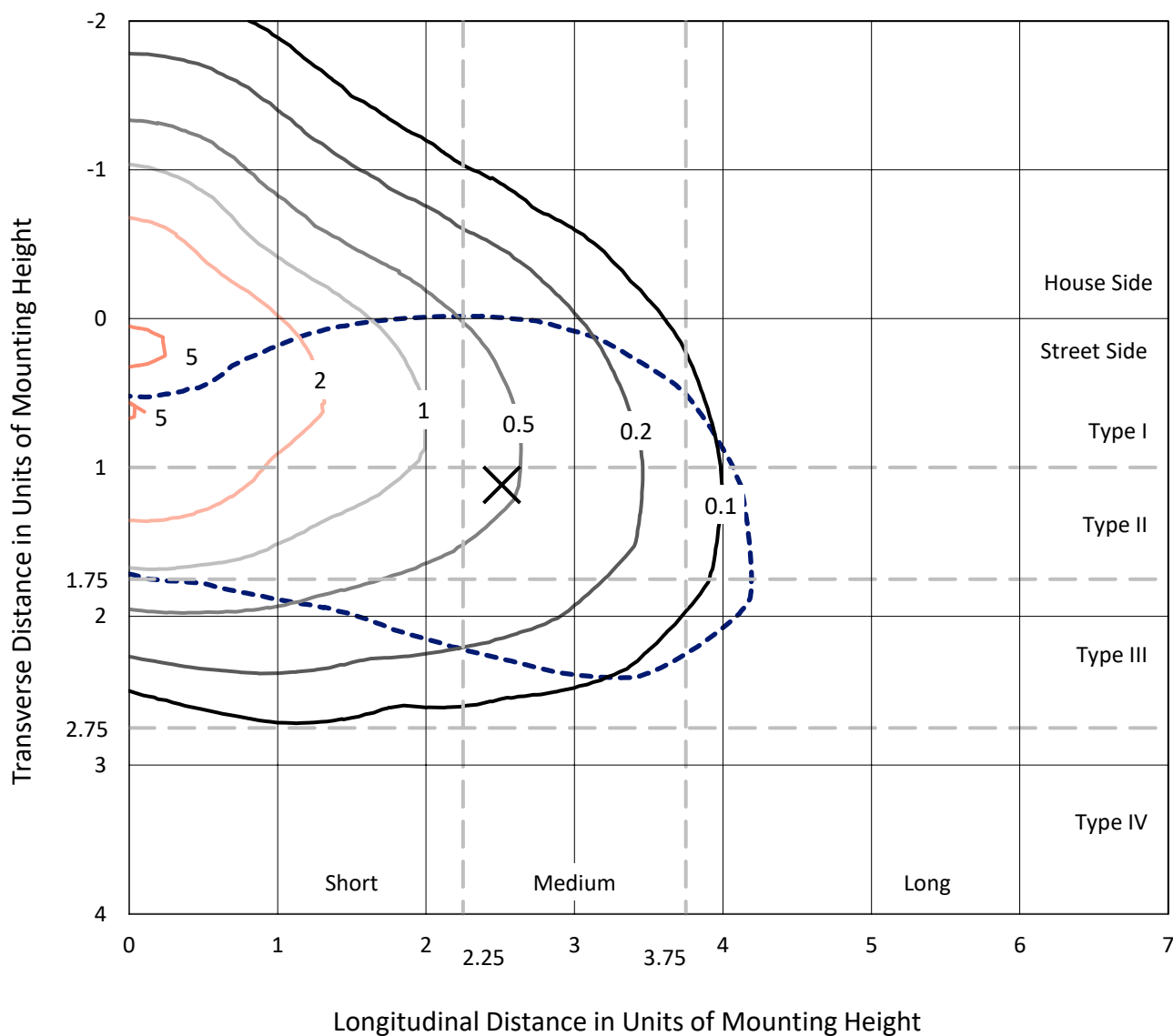
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

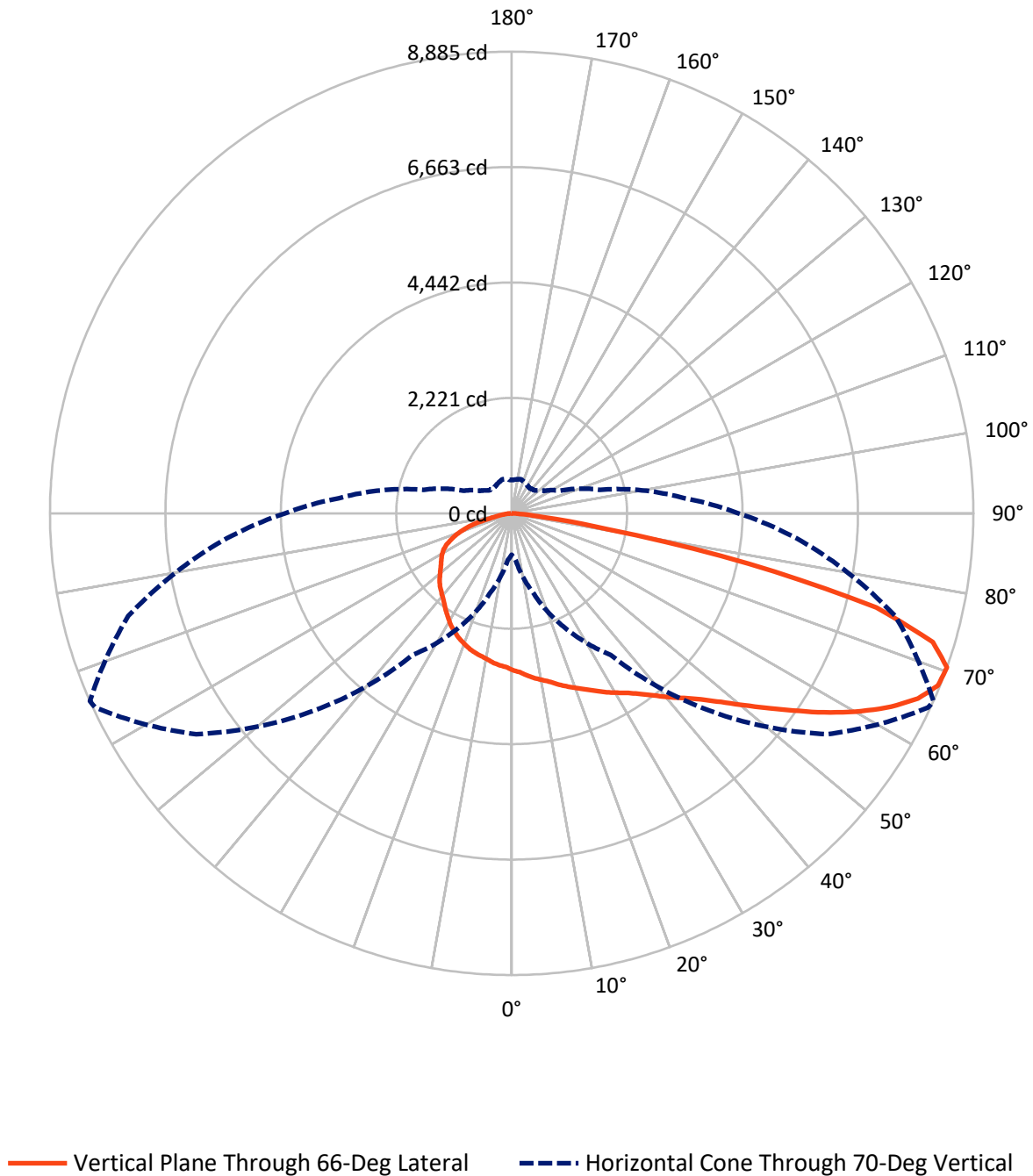
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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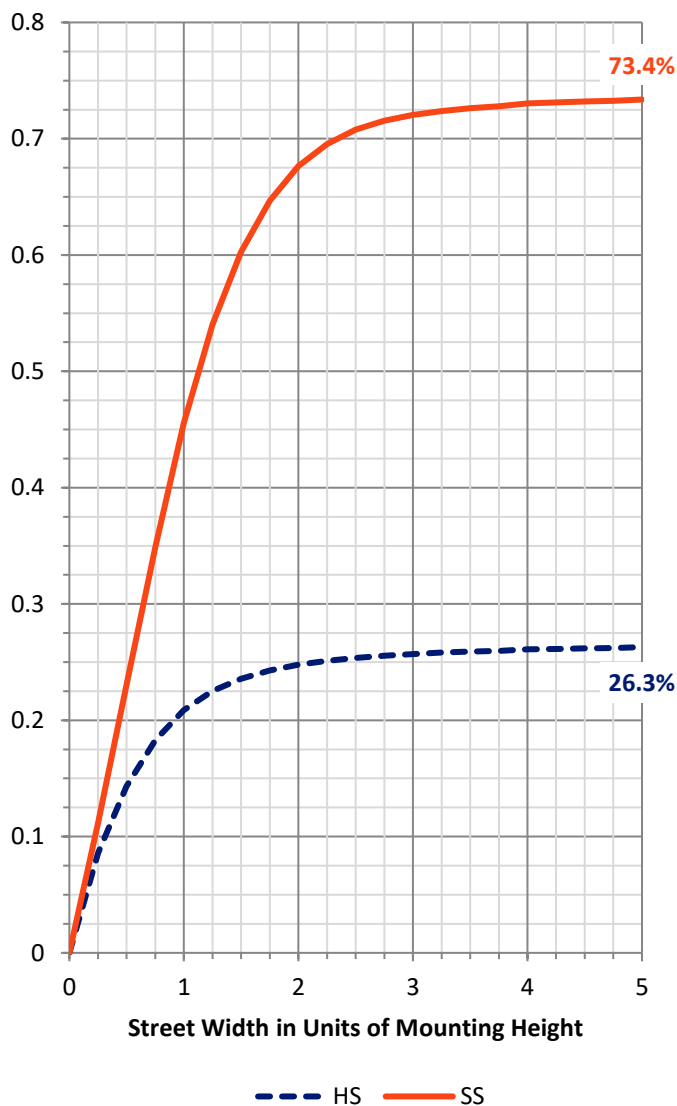
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4433.9	0.0	4433.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	12299.1	0.0	12299.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	16733.0	0.0	16733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	1.7
10°-20°	870.4	5.2
20°-30°	1459.1	8.7
30°-40°	2184.8	13.1
40°-50°	2921.1	17.5
50°-60°	3410.5	20.4
60°-70°	3391.2	20.3
70°-80°	2007.7	12.0
80°-90°	197.9	1.2
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°	16733.0	100.0
0°-180°	16733.0	100.0

Coefficient of Utilization



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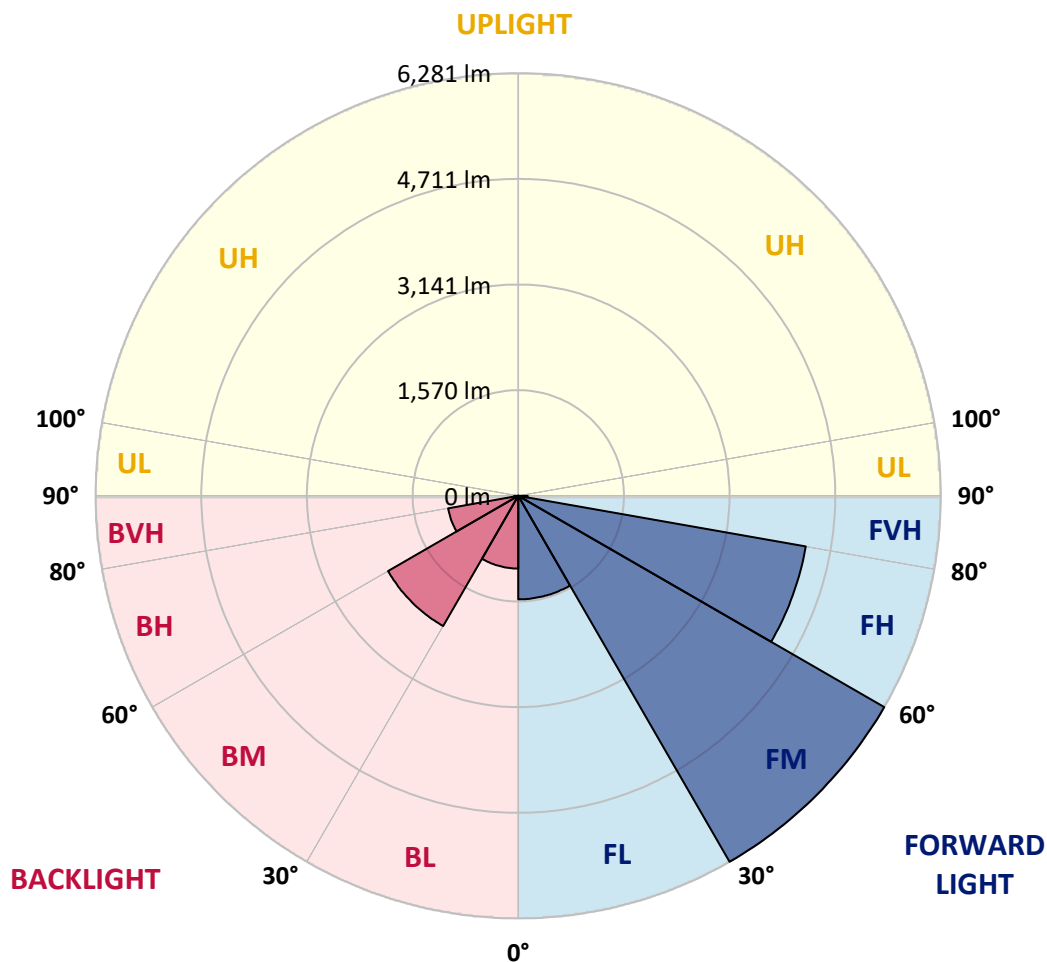
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1539.0	9.2			
FM	(30°-60°)	6281.3	37.5			
FH	(60°-80°)	4339.7	25.9			G2/5000
FVH	(80°-90°)	139.1	0.8			G2/225
BL	(0°-30°)	1080.8	6.5	B3/2500		
BM	(30°-60°)	2235.1	13.4	B2/2500		
BH	(60°-80°)	1059.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	58.8	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9
2.5°	3131.0	3126.0	3123.6	3113.7	3091.5	3101.3	3079.1	3064.3	3061.9	3027.3	3007.6
5°	3259.2	3256.8	3251.8	3237.0	3202.5	3207.4	3170.4	3143.3	3135.9	3081.6	3039.7
7.5°	3367.8	3362.9	3360.4	3340.7	3303.7	3301.2	3256.8	3217.3	3205.0	3131.0	3066.8
10°	3451.7	3444.3	3449.2	3429.5	3390.0	3382.6	3325.9	3274.1	3261.7	3168.0	3079.1
12.5°	3523.2	3518.3	3525.7	3508.4	3476.4	3469.0	3412.2	3345.6	3330.8	3222.2	3106.3
15°	3602.2	3584.9	3599.7	3592.3	3570.1	3567.7	3515.8	3441.8	3422.1	3291.3	3148.2
17.5°	3644.1	3634.3	3651.5	3654.0	3644.1	3661.4	3612.1	3523.2	3506.0	3355.5	3185.2
20°	3673.7	3658.9	3678.7	3693.5	3700.9	3735.4	3696.0	3609.6	3589.9	3417.2	3219.8
22.5°	3774.9	3742.8	3745.3	3755.2	3760.1	3809.4	3784.8	3700.9	3681.2	3493.6	3261.7
25°	4029.0	3964.9	3922.9	3893.3	3858.8	3900.7	3885.9	3804.5	3787.2	3584.9	3313.5
27.5°	4423.8	4342.4	4258.5	4172.1	4036.4	4019.2	3994.5	3920.5	3900.7	3676.2	3365.3
30°	4872.8	4791.4	4692.7	4554.6	4300.4	4167.2	4110.5	4029.0	4006.8	3757.6	3414.7
32.5°	5319.4	5247.9	5149.2	4981.4	4618.7	4347.3	4226.4	4142.5	4120.3	3846.5	3473.9
35°	5667.3	5622.9	5558.7	5349.0	4934.5	4559.5	4394.2	4293.0	4268.4	3987.1	3582.5
37.5°	5948.6	5916.5	5862.2	5642.6	5164.0	4771.7	4586.6	4470.7	4443.5	4140.1	3698.4
40°	6363.1	6279.2	6234.8	5916.5	5363.8	4964.1	4803.8	4682.9	4653.3	4302.9	3792.2
42.5°	6715.9	6654.2	6599.9	6160.7	5553.8	5129.4	5008.5	4897.5	4858.0	4463.3	3893.3
45°	6775.1	6799.8	6772.6	6281.6	5854.8	5292.3	5215.8	5144.2	5107.2	4680.4	4046.3
47.5°	6777.6	6777.6	6617.2	6350.7	6227.4	5474.8	5437.8	5462.5	5423.0	4956.7	4228.9
50°	6599.9	6632.0	6548.1	6368.0	6326.1	5657.4	5709.2	5842.5	5803.0	5250.3	4426.3
52.5°	6232.3	6338.4	6335.9	6340.9	6183.0	5812.9	5995.4	6298.9	6232.3	5580.9	4636.0
55°	5583.4	5795.6	5985.6	6148.4	6059.6	5906.6	6345.8	6785.0	6715.9	5951.0	4848.2
57.5°	5028.3	5164.0	5400.8	5862.2	5914.0	5988.0	6673.9	7293.2	7231.5	6360.6	5070.2
60°	4394.2	4581.7	4818.6	5474.8	5736.4	6094.1	7034.2	7789.1	7729.9	6775.1	5284.9
62.5°	3419.6	3661.4	4135.1	4880.2	5477.3	6160.7	7317.9	8225.8	8198.7	7167.4	5477.3
65°	2383.4	2598.0	3261.7	4149.9	5065.3	6131.1	7544.9	8615.7	8591.0	7488.1	5613.0
67.5°	1391.5	1640.7	2390.8	3340.7	4337.4	5926.4	7618.9	8845.1	8845.1	7683.0	5650.0
70°	794.5	910.4	1576.6	2435.2	3325.9	5361.4	7411.6	8842.7	8884.6	7638.6	5497.1
72.5°	555.1	606.9	1060.9	1638.3	2255.1	4337.4	6868.9	8415.8	8472.6	7219.2	4974.0
75°	431.8	468.8	747.6	1117.7	1421.1	2945.9	5682.1	7095.8	7246.3	6153.3	4021.6
77.5°	328.1	355.3	436.7	698.2	910.4	1692.5	3750.2	4653.3	4663.1	3767.5	2156.4
80°	239.3	266.5	291.1	426.8	483.6	792.0	1416.2	1944.2	1889.9	1823.3	1167.0
82.5°	143.1	170.2	177.6	231.9	236.9	338.0	495.9	626.7	602.0	801.9	547.7
85°	61.7	86.4	91.3	106.1	101.2	138.2	197.4	165.3	148.0	170.2	118.4
87.5°	14.8	24.7	24.7	27.1	22.2	34.5	37.0	27.1	24.7	29.6	29.6
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°	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9	3019.9
2.5°	3002.7	2995.3	2997.7	2955.8	2943.4	2931.1	2923.7	2918.8	2913.8	2921.2	2928.6
5°	3024.9	3007.6	2987.9	2926.2	2901.5	2874.4	2854.6	2837.3	2829.9	2829.9	2837.3
7.5°	3042.1	3012.5	2970.6	2889.2	2844.8	2807.7	2775.7	2753.5	2741.1	2741.1	2748.5
10°	3044.6	3002.7	2936.0	2837.3	2778.1	2723.9	2686.8	2662.2	2644.9	2644.9	2649.8
12.5°	3059.4	3002.7	2916.3	2797.9	2723.9	2657.2	2612.8	2575.8	2568.4	2568.4	2573.4
15°	3084.1	3015.0	2904.0	2763.3	2674.5	2598.0	2548.7	2509.2	2494.4	2504.3	2506.7
17.5°	3106.3	3022.4	2881.8	2718.9	2612.8	2528.9	2474.7	2440.1	2420.4	2442.6	2442.6
20°	3121.1	3022.4	2849.7	2662.2	2546.2	2452.5	2400.6	2358.7	2343.9	2371.0	2373.5
22.5°	3143.3	3019.9	2815.1	2605.4	2474.7	2376.0	2324.2	2292.1	2284.7	2314.3	2324.2
25°	3168.0	3024.9	2778.1	2541.3	2395.7	2299.5	2260.0	2245.2	2250.1	2287.1	2299.5
27.5°	3195.1	3034.7	2741.1	2469.7	2309.4	2223.0	2200.8	2208.2	2227.9	2274.8	2289.6
30°	3219.8	3037.2	2689.3	2385.8	2210.7	2129.2	2139.1	2171.2	2200.8	2247.7	2264.9
32.5°	3251.8	3039.7	2635.0	2294.6	2104.6	2045.4	2089.8	2141.6	2171.2	2215.6	2235.3
35°	3330.8	3081.6	2593.1	2205.7	2005.9	1973.8	2047.8	2114.4	2131.7	2171.2	2188.5
37.5°	3422.1	3150.7	2570.9	2114.4	1909.7	1902.3	1996.0	2062.6	2067.6	2092.2	2109.5
40°	3478.8	3180.3	2546.2	2038.0	1823.3	1828.2	1924.5	1976.3	1966.4	1983.7	1996.0
42.5°	3535.6	3190.2	2494.4	1973.8	1741.9	1746.8	1820.8	1857.8	1862.8	1899.8	1917.1
45°	3631.8	3217.3	2437.7	1914.6	1667.9	1650.6	1695.0	1744.4	1808.5	1880.1	1899.8
47.5°	3760.1	3274.1	2378.4	1843.0	1596.3	1539.6	1556.8	1643.2	1709.8	1776.4	1788.8
50°	3890.9	3330.8	2324.2	1756.7	1524.8	1421.1	1428.5	1507.5	1561.8	1613.6	1621.0
52.5°	4019.2	3380.1	2277.3	1675.3	1443.3	1280.5	1310.1	1391.5	1428.5	1453.2	1460.6
55°	4147.5	3422.1	2235.3	1606.2	1349.6	1169.5	1196.6	1273.1	1310.1	1322.5	1327.4
57.5°	4280.7	3471.4	2203.3	1547.0	1243.5	1070.8	1088.1	1142.3	1176.9	1191.7	1186.8
60°	4391.7	3513.4	2186.0	1485.3	1137.4	979.5	974.6	1023.9	1073.3	1088.1	1083.1
62.5°	4478.1	3540.5	2158.9	1406.3	1043.7	888.2	863.5	927.7	979.5	989.4	996.8
65°	4525.0	3543.0	2092.2	1305.2	947.4	789.5	772.3	836.4	868.5	878.3	878.3
67.5°	4517.6	3503.5	1961.5	1169.5	858.6	700.7	685.9	725.4	772.3	779.7	772.3
70°	4364.6	3340.7	1751.8	1026.4	752.5	621.7	594.6	634.1	678.5	651.4	639.0
72.5°	3930.3	2918.8	1443.3	868.5	634.1	523.1	510.7	550.2	552.7	557.6	545.3
75°	3101.3	2173.7	1080.7	676.0	513.2	439.2	436.7	429.3	439.2	458.9	444.1
77.5°	1628.4	1085.6	584.7	414.5	372.6	352.8	335.5	333.1	362.7	375.0	360.2
80°	883.3	609.4	335.5	249.2	227.0	229.5	251.7	246.7	278.8	286.2	273.9
82.5°	384.9	288.7	165.3	150.5	150.5	148.0	155.4	172.7	207.2	207.2	165.3
85°	83.9	71.6	64.1	74.0	83.9	83.9	83.9	83.9	59.2	32.1	22.2
87.5°	27.1	27.1	27.1	29.6	32.1	32.1	27.1	19.7	12.3	2.5	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)