

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: P840954

Luminaire Tested: **ARCH4-110-730-U-T4W**

Issue Date: 5/27/2024

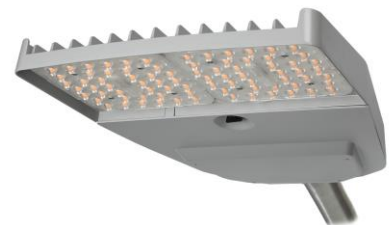
Test Information

Test Method: LM-79-08
Report Number: P840954
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: ARCH4-110-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18643 lumens
Efficiency: N/A
Efficacy: 165.6 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): 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

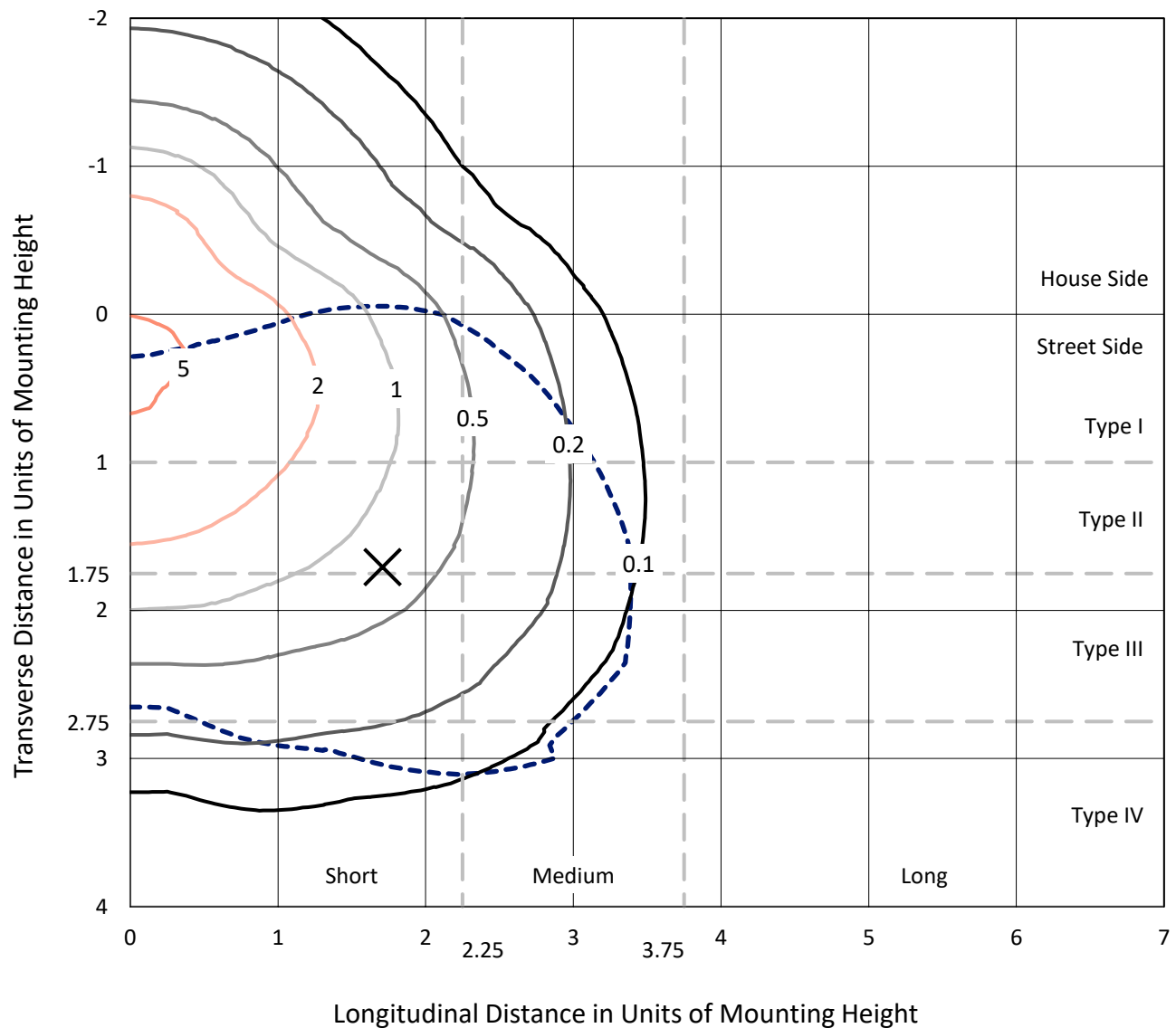


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Iso-Footcandle Lines of Horizontal Illumination

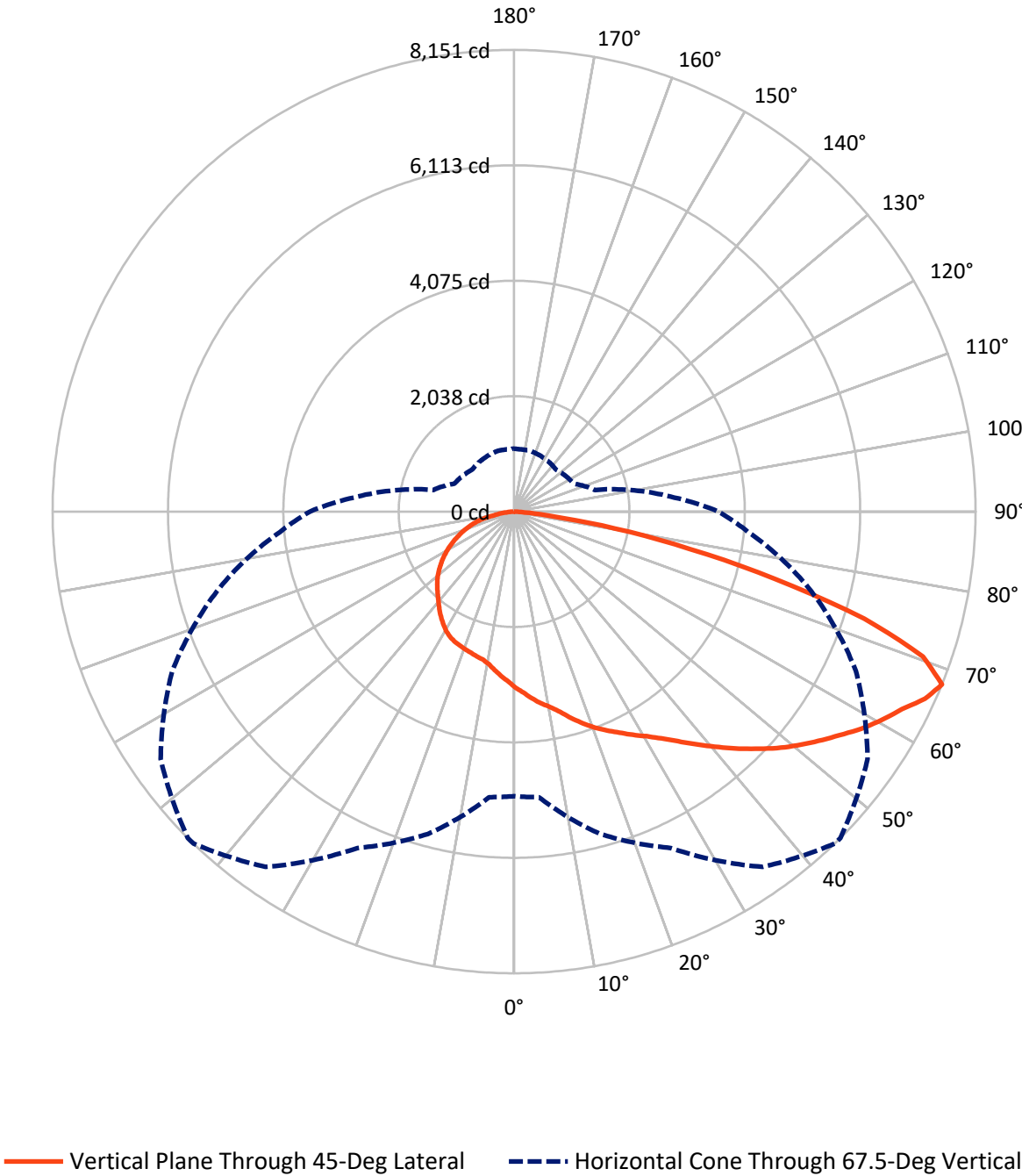
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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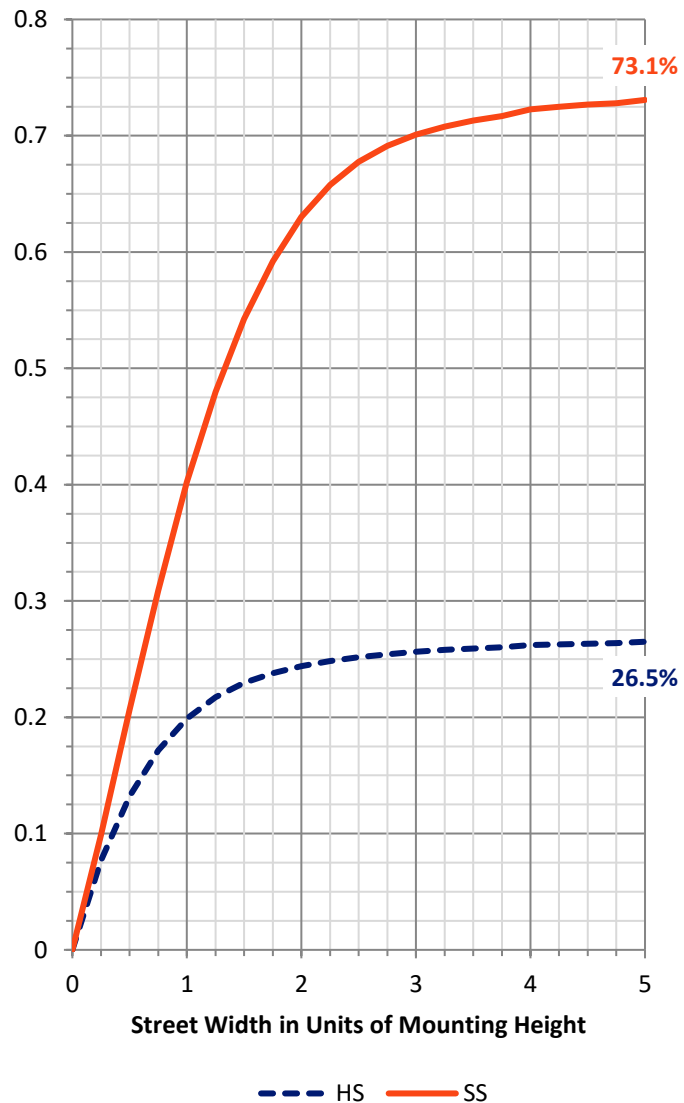
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4980.5	0.0	4980.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	13662.5	0.0	13662.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	18643.0	0.0	18643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.7	1.6
10°-20°	919.6	4.9
20°-30°	1587.4	8.5
30°-40°	2340.8	12.6
40°-50°	3171.4	17.0
50°-60°	3876.2	20.8
60°-70°	3997.7	21.4
70°-80°	2189.7	11.7
80°-90°	262.5	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°	18643.0	100.0
0°-180°	18643.0	100.0

Coefficient of Utilization



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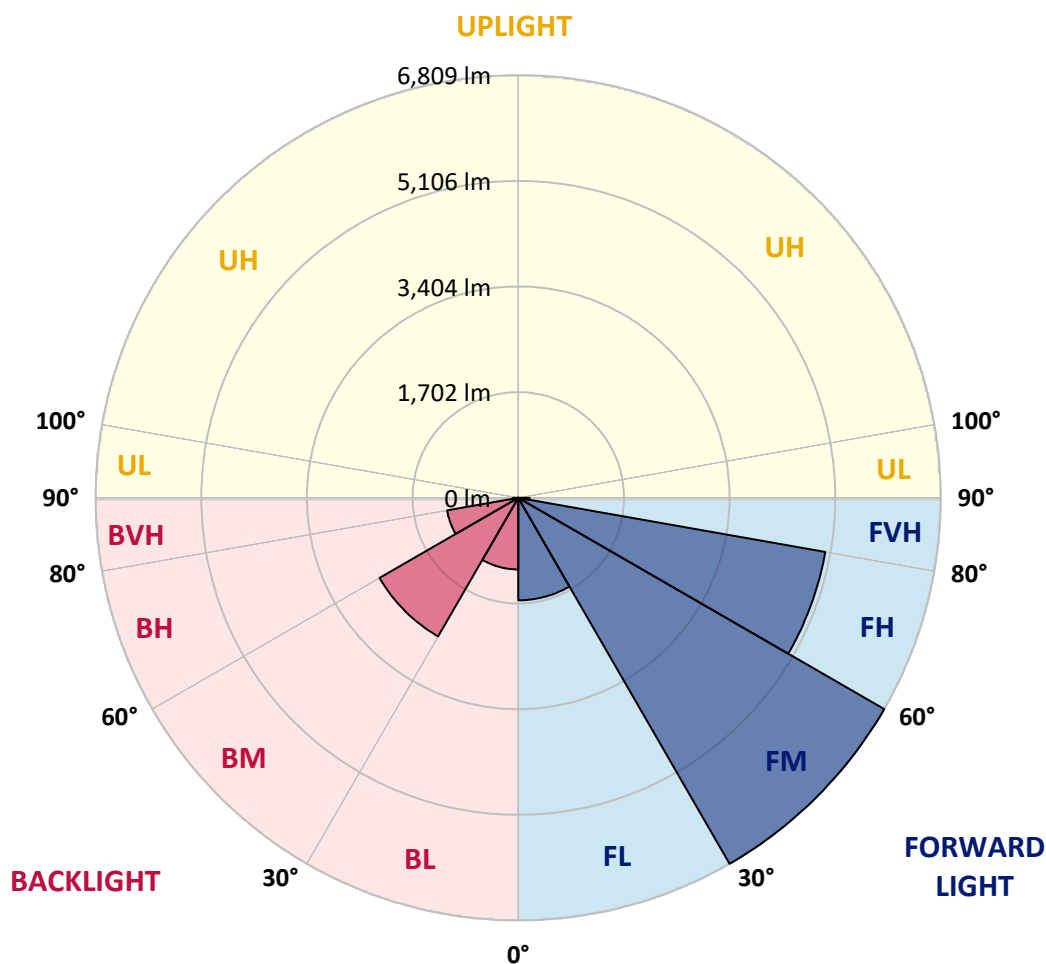
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1650.4	8.9			
FM	(30°-60°)	6808.6	36.5			
FH	(60°-80°)	5022.7	26.9			G3/7500
FVH	(80°-90°)	180.8	1.0			G2/225
BL	(0°-30°)	1154.3	6.2	B3/2500		
BM	(30°-60°)	2579.8	13.8	B3/5000		
BH	(60°-80°)	1164.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	81.7	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°	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3
2.5°	3245.5	3242.6	3248.3	3228.5	3202.9	3200.1	3200.1	3183.1	3163.2	3123.5	3092.3
5°	3398.7	3393.0	3395.8	3367.5	3333.4	3316.4	3313.6	3276.7	3231.3	3168.9	3112.1
7.5°	3540.5	3534.8	3532.0	3500.8	3449.7	3421.4	3418.5	3364.6	3310.7	3214.3	3132.0
10°	3673.9	3668.2	3662.5	3620.0	3557.5	3515.0	3509.3	3441.2	3373.1	3254.0	3149.0
12.5°	3844.1	3832.7	3827.0	3776.0	3685.2	3639.8	3631.3	3540.5	3455.4	3310.7	3183.1
15°	4022.8	4014.3	4005.8	3957.5	3855.4	3795.8	3781.7	3668.2	3551.9	3384.5	3234.1
17.5°	4156.1	4147.6	4147.6	4105.1	4011.4	3943.4	3932.0	3795.8	3651.2	3452.6	3273.8
20°	4238.4	4229.9	4238.4	4212.9	4141.9	4085.2	4073.9	3923.5	3750.4	3515.0	3307.9
22.5°	4298.0	4289.5	4303.7	4292.3	4241.2	4207.2	4198.7	4051.2	3852.6	3580.2	3341.9
25°	4402.9	4402.9	4402.9	4383.1	4334.9	4323.5	4323.5	4195.9	3983.1	3665.3	3393.0
27.5°	4612.9	4601.5	4587.4	4530.6	4448.3	4445.5	4462.5	4343.4	4133.4	3776.0	3455.4
30°	4922.1	4916.4	4862.5	4743.4	4604.4	4590.2	4601.5	4502.2	4295.1	3892.3	3526.3
32.5°	5322.1	5302.3	5191.6	5012.9	4814.3	4749.1	4771.8	4666.8	4465.4	4011.4	3594.4
35°	5605.8	5611.5	5532.1	5370.3	5134.9	4961.8	4978.8	4851.2	4649.8	4144.8	3679.5
37.5°	5932.1	5951.9	5832.8	5710.8	5492.3	5197.3	5214.3	5041.3	4834.2	4312.2	3770.3
40°	6383.1	6343.4	6142.0	5997.3	5756.2	5444.1	5458.3	5254.0	5046.9	4471.0	3875.3
42.5°	6760.5	6689.5	6445.6	6261.2	5971.8	5705.1	5719.3	5483.8	5262.5	4646.9	3991.6
45°	7302.3	7106.6	6754.8	6664.0	6193.1	5960.4	5974.6	5727.8	5489.5	4834.2	4116.4
47.5°	7617.2	7305.2	7081.0	7032.8	6437.0	6224.3	6241.3	5986.0	5733.5	5046.9	4246.9
50°	7597.4	7395.9	7330.7	7211.5	6652.7	6471.1	6488.1	6252.6	5980.3	5256.9	4371.7
52.5°	7466.9	7503.7	7469.7	7271.1	6868.3	6709.4	6729.2	6516.5	6232.8	5452.6	4488.1
55°	7668.3	7693.8	7628.6	7367.6	7106.6	6947.7	6970.4	6794.5	6482.4	5625.7	4587.4
57.5°	7909.4	7818.6	7753.4	7537.8	7353.4	7205.9	7231.4	7078.2	6698.0	5764.7	4663.9
60°	7898.1	7708.0	7773.2	7549.1	7520.8	7444.2	7466.9	7310.8	6862.6	5866.8	4695.2
62.5°	7316.5	7214.4	7543.5	7466.9	7656.9	7656.9	7685.3	7452.7	6961.9	5909.4	4678.1
65°	6306.5	6312.2	6891.0	7208.7	7818.6	7949.1	7971.8	7540.6	6905.1	5784.5	4519.3
67.5°	5024.2	5061.1	5892.3	6553.4	7656.9	8147.7	8150.6	7620.1	6661.2	5432.8	4150.5
70°	3676.7	3705.1	4686.6	5489.5	6893.8	7708.0	7662.6	7395.9	6130.7	4820.0	3574.6
72.5°	2485.2	2510.7	3520.7	4215.7	5656.9	6564.7	6465.4	6536.3	5225.7	3960.4	2873.8
75°	1671.0	1702.2	2505.0	3015.7	4161.8	4984.5	4763.2	4950.5	4042.7	2998.7	2096.5
77.5°	1052.5	1072.4	1591.5	1977.4	2842.6	3393.0	3171.7	3174.5	2329.1	1614.2	1126.3
80°	669.5	675.2	964.6	1140.5	1645.4	2039.8	1804.3	1466.7	1049.7	856.8	672.4
82.5°	388.7	380.2	575.9	644.0	783.0	774.5	641.2	607.1	459.6	428.4	343.3
85°	156.0	144.7	252.5	235.5	238.3	252.5	187.2	187.2	150.4	116.3	85.1
87.5°	31.2	31.2	34.0	31.2	31.2	34.0	25.5	25.5	22.7	22.7	22.7
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°	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3	3109.3
2.5°	3086.6	3080.9	3066.7	3029.9	3010.0	2998.7	2981.6	2976.0	2973.1	2976.0	2984.5
5°	3095.1	3075.3	3035.5	2976.0	2936.2	2910.7	2882.3	2871.0	2862.5	2862.5	2871.0
7.5°	3100.8	3069.6	3001.5	2913.5	2856.8	2817.1	2783.0	2768.9	2766.0	2774.5	2777.4
10°	3103.6	3058.2	2961.8	2851.1	2777.4	2726.3	2692.3	2683.8	2692.3	2709.3	2712.1
12.5°	3123.5	3061.1	2939.1	2808.6	2720.6	2669.6	2644.0	2644.0	2666.7	2697.9	2700.8
15°	3157.5	3080.9	2927.7	2774.5	2683.8	2638.4	2629.9	2644.0	2678.1	2726.3	2732.0
17.5°	3183.1	3092.3	2902.2	2729.1	2635.5	2607.2	2621.3	2655.4	2703.6	2768.9	2774.5
20°	3200.1	3092.3	2865.3	2675.2	2587.3	2581.6	2621.3	2675.2	2726.3	2802.9	2811.4
22.5°	3217.1	3086.6	2822.8	2610.0	2533.4	2550.4	2624.2	2692.3	2743.3	2825.6	2839.8
25°	3248.3	3095.1	2780.2	2544.7	2476.7	2524.9	2621.3	2703.6	2757.5	2842.6	2865.3
27.5°	3290.9	3115.0	2749.0	2485.2	2419.9	2485.2	2601.5	2700.8	2757.5	2839.8	2865.3
30°	3336.3	3137.7	2712.1	2419.9	2354.7	2428.4	2558.9	2669.6	2734.8	2811.4	2842.6
32.5°	3384.5	3163.2	2680.9	2349.0	2275.2	2351.8	2496.5	2621.3	2692.3	2763.2	2797.2
35°	3449.7	3208.6	2663.9	2292.3	2204.3	2272.4	2417.1	2558.9	2635.5	2700.8	2740.5
37.5°	3529.2	3265.3	2655.4	2235.5	2127.7	2184.5	2332.0	2482.3	2564.6	2618.5	2655.4
40°	3620.0	3336.3	2652.5	2181.6	2051.1	2093.7	2244.0	2394.4	2473.8	2516.4	2547.6
42.5°	3722.1	3415.7	2646.9	2127.7	1974.5	2008.6	2158.9	2306.4	2374.5	2411.4	2439.8
45°	3829.9	3495.1	2635.5	2062.5	1892.2	1932.0	2071.0	2201.5	2272.4	2303.6	2334.8
47.5°	3937.7	3574.6	2612.8	1988.7	1818.5	1855.4	1977.4	2090.8	2147.6	2175.9	2207.1
50°	4042.7	3645.5	2558.9	1903.6	1741.9	1775.9	1869.6	1946.1	1988.7	2011.4	2042.6
52.5°	4136.3	3693.7	2482.3	1804.3	1665.3	1682.3	1744.7	1810.0	1844.0	1846.9	1875.2
55°	4215.7	3719.2	2371.7	1702.2	1583.0	1585.9	1619.9	1671.0	1685.1	1673.8	1693.7
57.5°	4261.1	3705.1	2249.7	1597.2	1497.9	1486.6	1512.1	1537.6	1540.5	1512.1	1532.0
60°	4272.4	3639.8	2090.8	1492.2	1412.8	1381.6	1390.1	1384.4	1378.8	1367.4	1384.4
62.5°	4215.7	3500.8	1914.9	1390.1	1322.0	1273.8	1271.0	1268.1	1276.6	1279.5	1282.3
65°	4008.6	3239.8	1705.0	1285.1	1225.6	1160.3	1157.5	1191.5	1202.9	1185.8	1191.5
67.5°	3608.6	2839.8	1475.2	1163.2	1103.6	1046.8	1069.5	1089.4	1109.2	1103.6	1109.2
70°	3041.2	2332.0	1265.3	1027.0	970.2	939.0	964.6	981.6	984.4	978.7	984.4
72.5°	2391.6	1821.3	1069.5	888.0	836.9	822.7	853.9	868.1	893.6	905.0	907.8
75°	1727.7	1344.7	876.6	737.6	695.1	695.1	723.4	749.0	771.7	757.5	749.0
77.5°	964.6	802.9	629.8	507.8	516.3	556.0	567.4	595.8	618.5	615.6	609.9
80°	584.4	502.1	425.5	329.1	326.2	357.5	431.2	479.4	490.8	465.3	462.4
82.5°	303.6	263.8	227.0	184.4	204.3	238.3	249.7	300.7	331.9	320.6	334.8
85°	76.6	73.8	82.3	85.1	105.0	116.3	127.7	150.4	99.3	48.2	48.2
87.5°	22.7	22.7	28.4	28.4	36.9	45.4	42.6	42.6	22.7	2.8	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)