

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: P1211003

Luminaire Tested: **ARCH4-140-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-140-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21793 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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

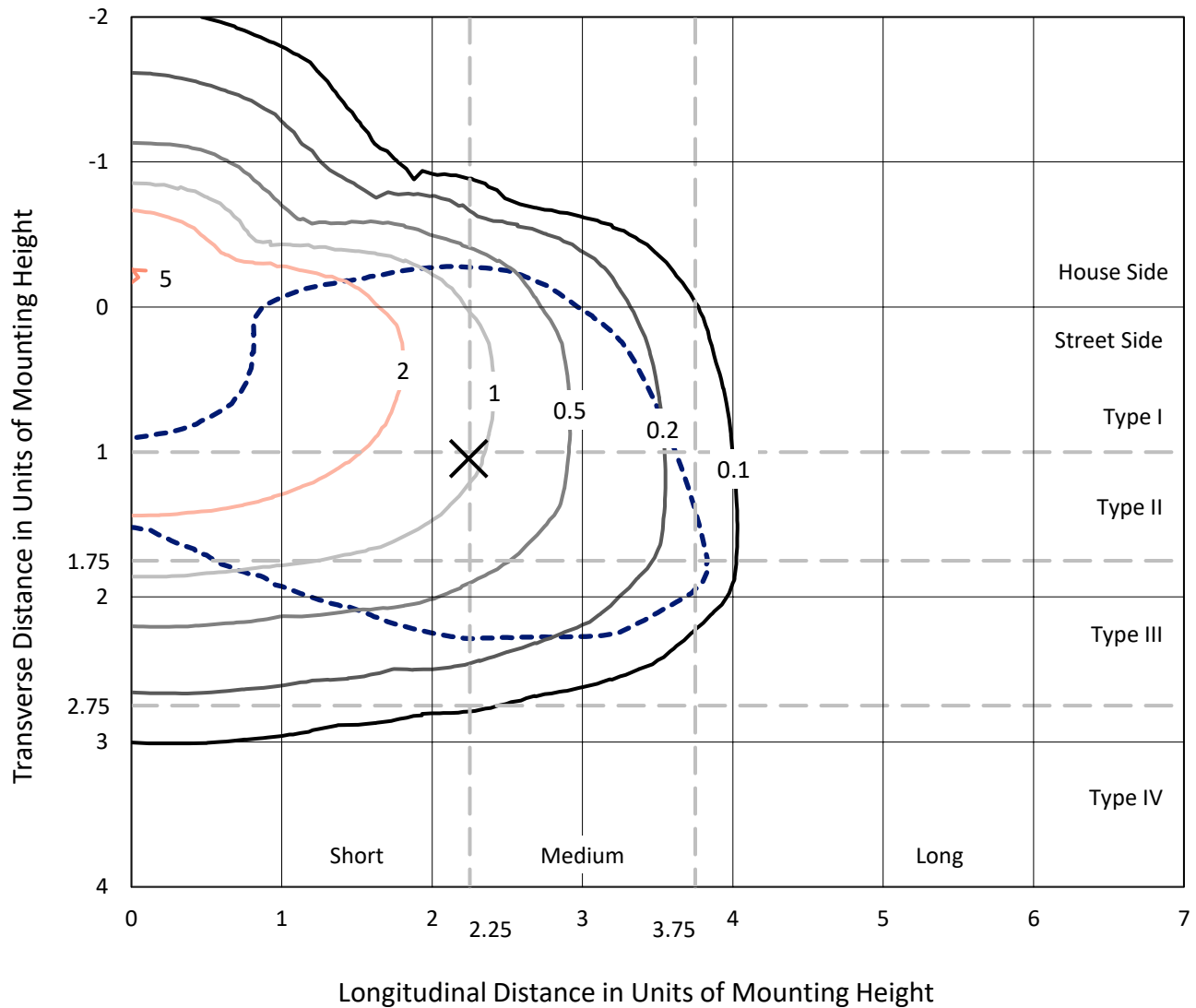


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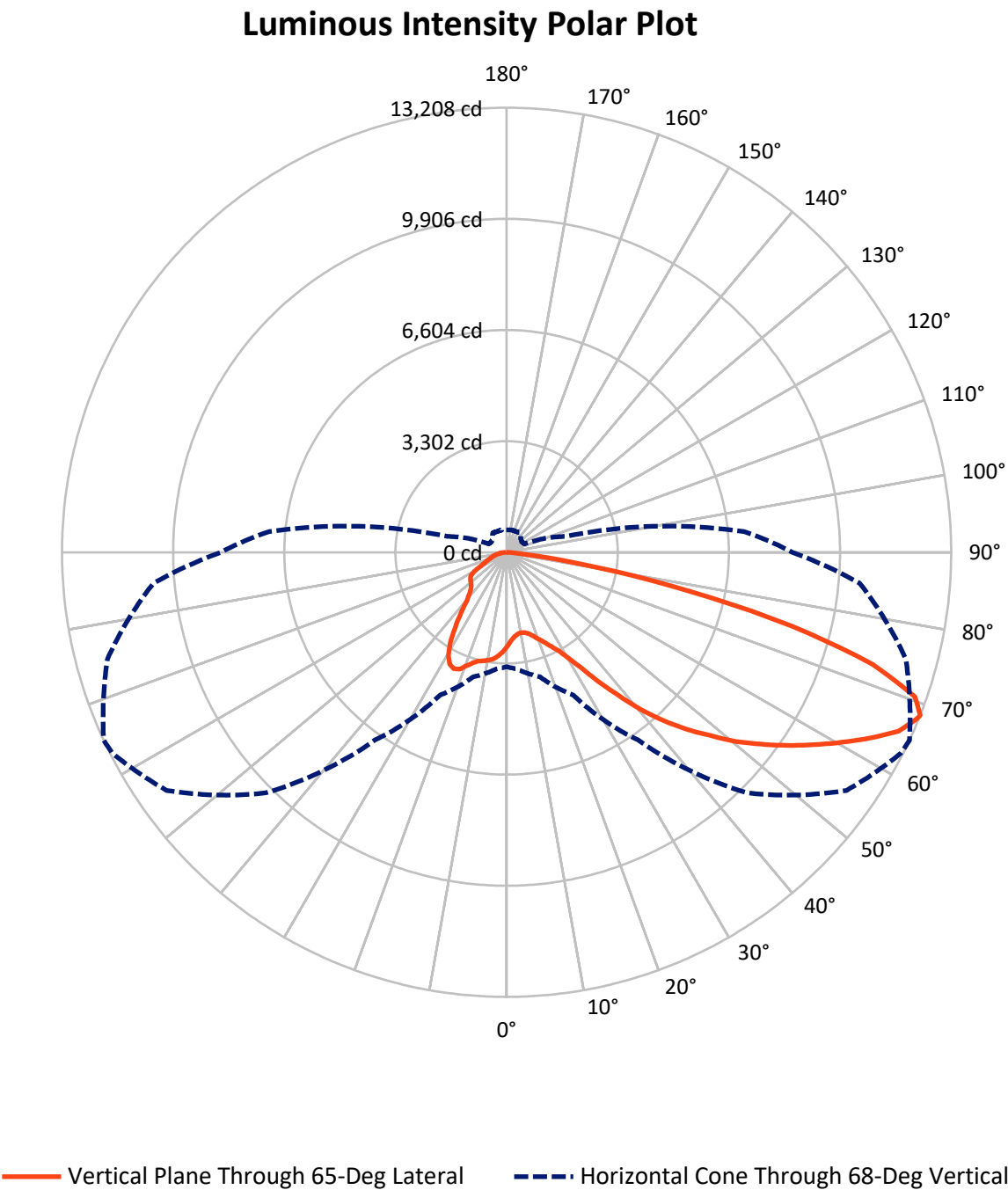
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type III - Short - N/A

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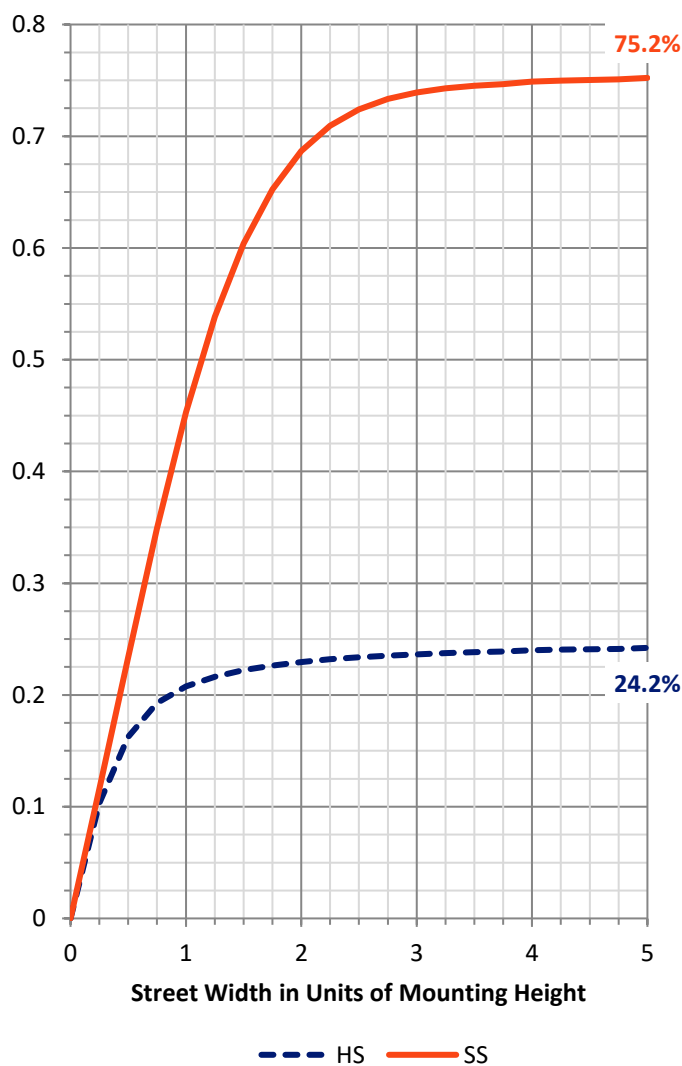
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5343.0	0.0	5343.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	16450.0	0.0	16450.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	21793.0	0.0	21793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.2	1.2
10°-20°	866.6	4.0
20°-30°	1568.4	7.2
30°-40°	2467.3	11.3
40°-50°	3674.8	16.9
50°-60°	4820.6	22.1
60°-70°	5271.7	24.2
70°-80°	2608.6	12.0
80°-90°	248.8	1.1
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°	21793.0	100.0
0°-180°	21793.0	100.0

Coefficient of Utilization



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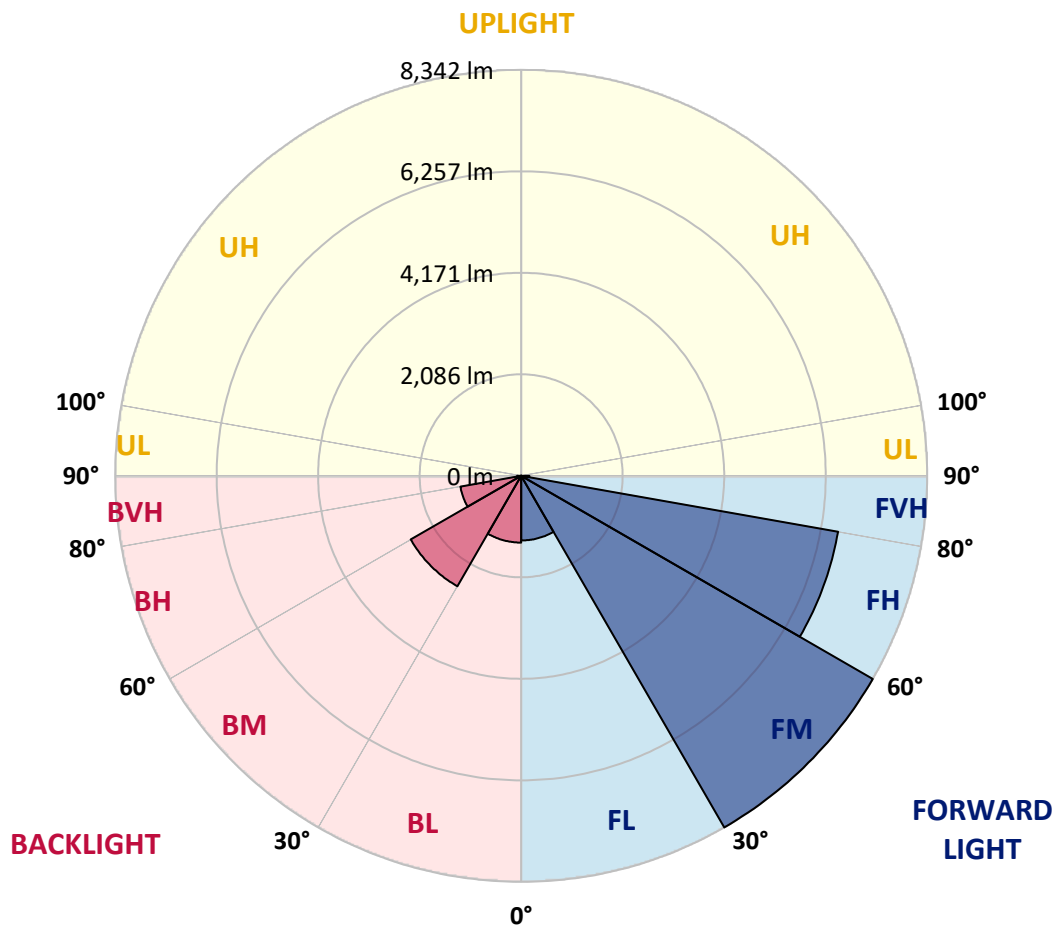
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1328.5	6.1			
FM	(30°-60°)	8342.1	38.3			
FH	(60°-80°)	6612.1	30.3			G3/7500
FVH	(80°-90°)	167.4	0.8			G2/225
BL	(0°-30°)	1372.7	6.3	B3/2500		
BM	(30°-60°)	2620.7	12.0	B3/5000		
BH	(60°-80°)	1268.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	81.5	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9
2.5°	2430.8	2425.2	2439.2	2453.3	2484.2	2520.7	2571.3	2613.5	2619.1	2697.8	2759.6
5°	2287.5	2279.0	2293.1	2310.0	2324.0	2369.0	2422.4	2484.2	2509.5	2624.7	2756.8
7.5°	2301.5	2298.7	2304.3	2298.7	2298.7	2318.4	2354.9	2416.7	2444.8	2582.5	2770.8
10°	2383.0	2388.6	2391.5	2374.6	2357.7	2349.3	2360.5	2402.7	2422.4	2585.4	2832.7
12.5°	2517.9	2526.3	2529.2	2498.2	2475.8	2439.2	2419.6	2436.4	2450.5	2613.5	2919.8
15°	2700.6	2706.2	2686.5	2666.9	2610.6	2565.7	2517.9	2503.9	2509.5	2672.5	3018.1
17.5°	2914.1	2905.7	2905.7	2857.9	2784.9	2714.6	2635.9	2624.7	2624.7	2768.0	3158.6
20°	3147.4	3155.8	3130.5	3065.9	2992.8	2883.2	2804.6	2754.0	2759.6	2877.6	3330.1
22.5°	3484.6	3498.7	3431.2	3338.5	3226.1	3099.6	2987.2	2905.7	2908.5	3020.9	3507.1
25°	3847.1	3852.7	3810.6	3686.9	3535.2	3355.3	3206.4	3102.4	3099.6	3181.1	3734.7
27.5°	4218.1	4243.4	4159.1	4041.0	3900.5	3675.7	3479.0	3338.5	3316.0	3425.6	4018.5
30°	4600.3	4631.2	4549.7	4434.5	4260.2	4069.1	3835.9	3672.9	3658.8	3805.0	4397.9
32.5°	4985.2	4993.7	4929.0	4833.5	4676.1	4496.3	4308.0	4128.1	4114.1	4353.0	4889.7
35°	5300.0	5325.3	5280.3	5257.8	5142.6	4976.8	4794.2	4690.2	4726.7	5033.0	5527.6
37.5°	5679.4	5704.6	5654.1	5648.4	5611.9	5468.6	5342.1	5350.6	5387.1	5803.0	6199.2
40°	6227.3	6255.4	6126.2	6070.0	6070.0	5929.5	5887.3	6086.8	6134.6	6561.8	6899.0
42.5°	6691.0	6736.0	6660.1	6623.6	6514.0	6415.6	6466.2	6747.2	6828.7	7286.8	7508.8
45°	6915.8	6949.6	7039.5	7146.3	7039.5	6868.1	7059.2	7376.7	7491.9	7955.6	8118.6
47.5°	7036.7	7067.6	7171.6	7458.2	7531.3	7387.9	7657.7	8054.0	8132.6	8618.8	8700.3
50°	7053.5	7151.9	7286.8	7573.4	7907.8	7927.5	8259.1	8742.4	8835.2	9270.8	9211.7
52.5°	6915.8	6955.2	7233.4	7716.7	8087.7	8424.9	8913.9	9402.8	9470.3	9883.4	9664.2
55°	6691.0	6747.2	7025.4	7683.0	8261.9	8897.0	9579.9	10052.0	10127.9	10479.1	10082.9
57.5°	6488.7	6516.8	6814.7	7584.7	8436.1	9369.1	10172.8	10729.2	10779.8	11001.8	10392.0
60°	6263.9	6294.8	6592.7	7373.9	8565.4	9726.0	10791.1	11412.1	11457.1	11552.6	10751.7
62.5°	5682.2	5763.7	6137.4	7025.4	8531.7	10133.5	11451.5	12086.5	12142.8	12038.8	11035.5
65°	4614.3	4729.5	5187.6	6235.8	8216.9	10397.6	11991.0	12707.6	12803.1	12404.1	11111.4
67.5°	3583.0	3664.5	4032.6	4948.7	7112.5	10265.6	12339.5	13134.7	13162.8	12345.1	10689.9
68°	3397.5	3479.0	3830.3	4678.9	6806.2	10108.2	12331.0	13146.0	13207.8	12280.5	10526.9
70°	2599.4	2692.1	3026.6	3706.6	5485.5	9107.8	11816.8	12876.2	12867.8	11499.2	9515.2
72.5°	1624.3	1677.7	1908.1	2338.1	3627.9	6929.9	10029.5	11355.9	11378.4	9374.7	7298.0
75°	1031.3	1031.3	1020.1	1132.5	1860.3	3948.3	7455.4	8742.4	8759.3	6564.6	4600.3
77.5°	896.4	871.2	750.3	635.1	741.9	1534.4	4412.0	5645.6	5552.9	3535.2	2183.5
80°	755.9	713.8	615.4	511.5	477.7	480.5	1694.5	2866.4	2742.7	1273.0	725.0
82.5°	545.2	508.6	463.7	401.9	368.1	286.6	354.1	829.0	809.3	368.1	236.1
85°	295.1	267.0	261.3	264.2	222.0	177.0	148.9	182.7	182.7	160.2	134.9
87.5°	104.0	75.9	89.9	101.2	87.1	73.1	59.0	70.3	73.1	70.3	64.6
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°	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9
2.5°	2796.1	2824.2	2891.7	2950.7	2992.8	3029.4	3049.0	3057.5	3077.1	3079.9	3074.3
5°	2818.6	2891.7	2992.8	3079.9	3127.7	3147.4	3153.0	3155.8	3147.4	3153.0	3147.4
7.5°	2877.6	2970.4	3113.7	3189.5	3198.0	3167.1	3169.9	3158.6	3169.9	3181.1	3181.1
10°	2967.5	3085.6	3220.5	3248.6	3212.0	3195.2	3228.9	3296.3	3318.8	3349.7	3349.7
12.5°	3085.6	3226.1	3321.6	3296.3	3262.6	3318.8	3417.2	3484.6	3507.1	3518.3	3509.9
15°	3220.5	3372.2	3420.0	3335.7	3397.5	3518.3	3552.1	3512.7	3456.5	3431.2	3445.3
17.5°	3391.9	3518.3	3490.2	3434.0	3574.5	3591.4	3481.8	3355.3	3265.4	3231.7	3254.2
20°	3571.7	3681.3	3552.1	3577.3	3664.5	3484.6	3276.7	3113.7	3035.0	3020.9	3043.4
22.5°	3762.8	3833.1	3613.9	3743.1	3613.9	3248.6	2998.5	2914.1	2894.5	2917.0	2936.6
25°	3979.2	3970.8	3720.7	3793.7	3425.6	2959.1	2810.2	2804.6	2804.6	2818.6	2846.7
27.5°	4223.7	4091.6	3827.5	3726.3	3099.6	2720.2	2692.1	2695.0	2686.5	2689.3	2703.4
30°	4507.5	4254.6	3945.5	3504.3	2734.3	2540.4	2529.2	2520.7	2501.1	2495.4	2501.1
32.5°	4864.4	4426.0	4066.3	3139.0	2413.9	2354.9	2349.3	2304.3	2256.6	2250.9	2270.6
35°	5316.8	4737.9	4128.1	2680.9	2149.8	2147.0	2127.3	2057.0	1995.2	1995.2	1981.2
37.5°	5833.9	5139.8	4153.4	2234.1	1930.6	1944.6	1888.4	1798.5	1750.7	1722.6	1731.1
40°	6362.2	5597.9	4150.6	1843.5	1739.5	1742.3	1700.2	1590.6	1472.5	1402.3	1419.1
42.5°	6870.9	6013.8	4077.6	1635.5	1584.9	1576.5	1542.8	1393.8	1295.5	1239.3	1242.1
45°	7278.3	6443.7	3965.2	1511.9	1444.4	1458.5	1382.6	1292.7	1202.8	1152.2	1149.4
47.5°	7685.8	6769.7	3785.3	1436.0	1340.5	1315.2	1284.2	1222.4	1155.0	1098.8	1101.6
50°	8056.8	7047.9	3616.7	1385.4	1244.9	1180.3	1185.9	1149.4	1090.3	1039.8	1037.0
52.5°	8318.1	7230.6	3524.0	1357.3	1129.7	1059.4	1079.1	1059.4	1003.2	966.7	963.9
55°	8579.5	7371.1	3554.9	1320.8	1003.2	947.0	980.8	975.1	944.2	933.0	935.8
57.5°	8790.2	7477.9	3664.5	1253.3	882.4	848.7	904.9	888.0	865.5	868.3	868.3
60°	8995.4	7615.6	3793.7	1098.8	778.4	781.2	834.6	803.7	789.7	814.9	817.8
62.5°	9208.9	7764.5	3686.9	874.0	688.5	708.2	770.0	744.7	750.3	786.8	798.1
65°	9183.6	7750.5	3004.1	716.6	609.8	649.1	741.9	733.5	736.3	750.3	755.9
67.5°	8666.6	7255.9	2065.5	609.8	553.6	601.4	719.4	685.7	688.5	680.1	682.9
68°	8492.3	7081.6	1821.0	592.9	542.4	590.1	708.2	677.3	680.1	671.6	668.8
70°	7542.5	6064.4	1152.2	522.7	503.0	559.2	652.0	640.7	637.9	632.3	632.3
72.5°	5749.6	4476.6	607.0	452.4	458.1	511.5	581.7	604.2	590.1	592.9	609.8
75°	3807.8	2692.1	421.5	387.8	401.9	438.4	517.1	562.0	548.0	556.4	548.0
77.5°	2014.9	1450.0	337.2	328.8	328.8	354.1	427.1	497.4	497.4	491.8	483.3
80°	660.4	511.5	269.8	258.5	264.2	278.2	342.8	407.5	415.9	404.7	399.0
82.5°	222.0	236.1	202.3	188.3	193.9	205.1	258.5	311.9	314.7	292.3	286.6
85°	137.7	157.4	126.5	123.6	123.6	126.5	157.4	171.4	157.4	140.5	146.1
87.5°	64.6	78.7	59.0	50.6	42.2	36.5	28.1	11.2	11.2	5.6	5.6
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)