

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: P1210587

Luminaire Tested: **ARCH3-170-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210587
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: ARCH3-170-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21607 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.6
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

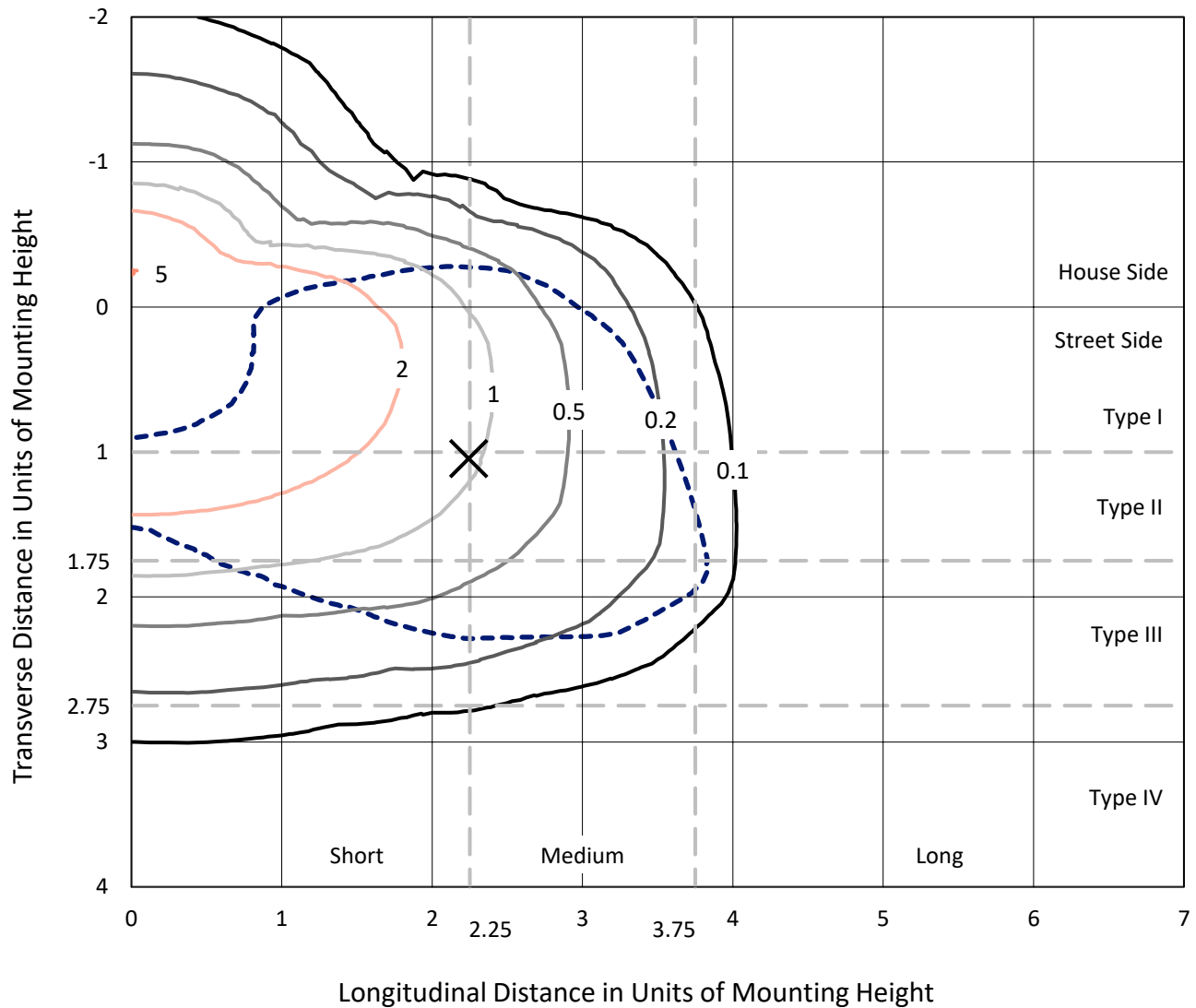


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

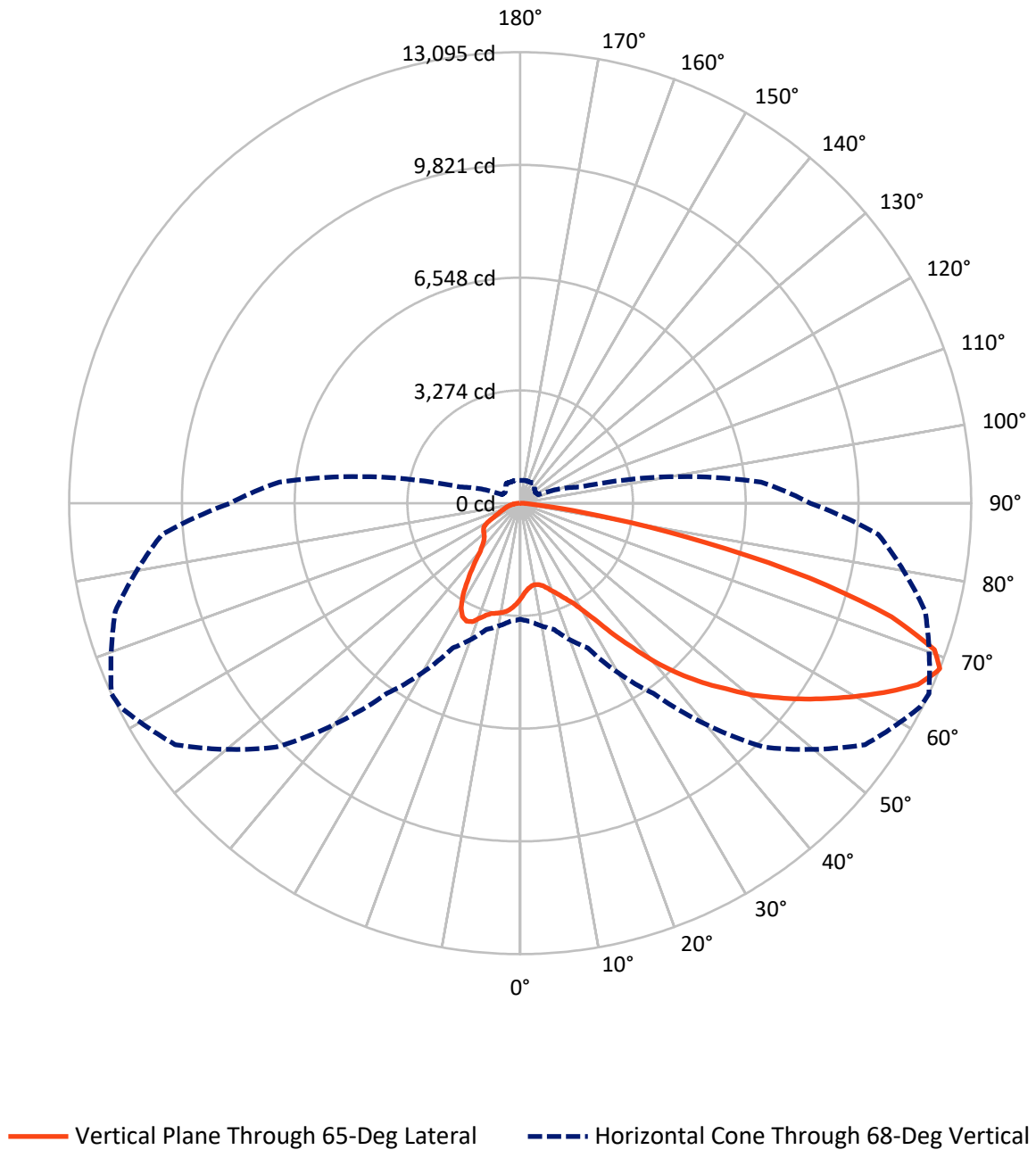


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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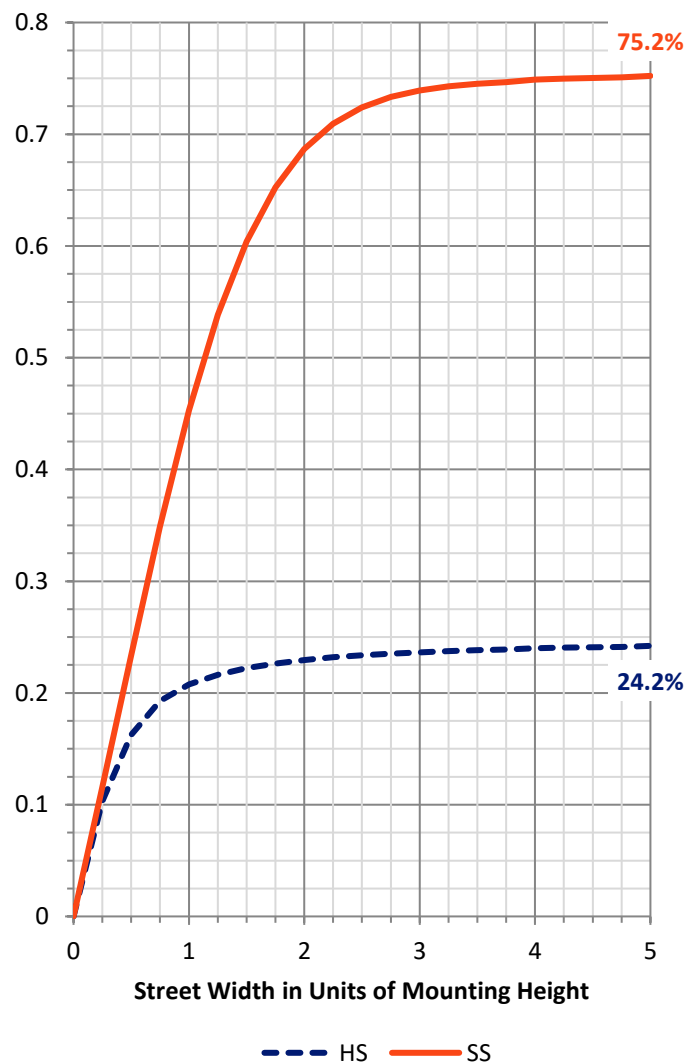
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5297.4	0.0	5297.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	16309.6	0.0	16309.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	21607.0	0.0	21607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	1.2
10°-20°	859.2	4.0
20°-30°	1555.1	7.2
30°-40°	2446.3	11.3
40°-50°	3643.4	16.9
50°-60°	4779.5	22.1
60°-70°	5226.7	24.2
70°-80°	2586.3	12.0
80°-90°	246.7	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°	21607.0	100.0
0°-180°	21607.0	100.0

Coefficient of Utilization



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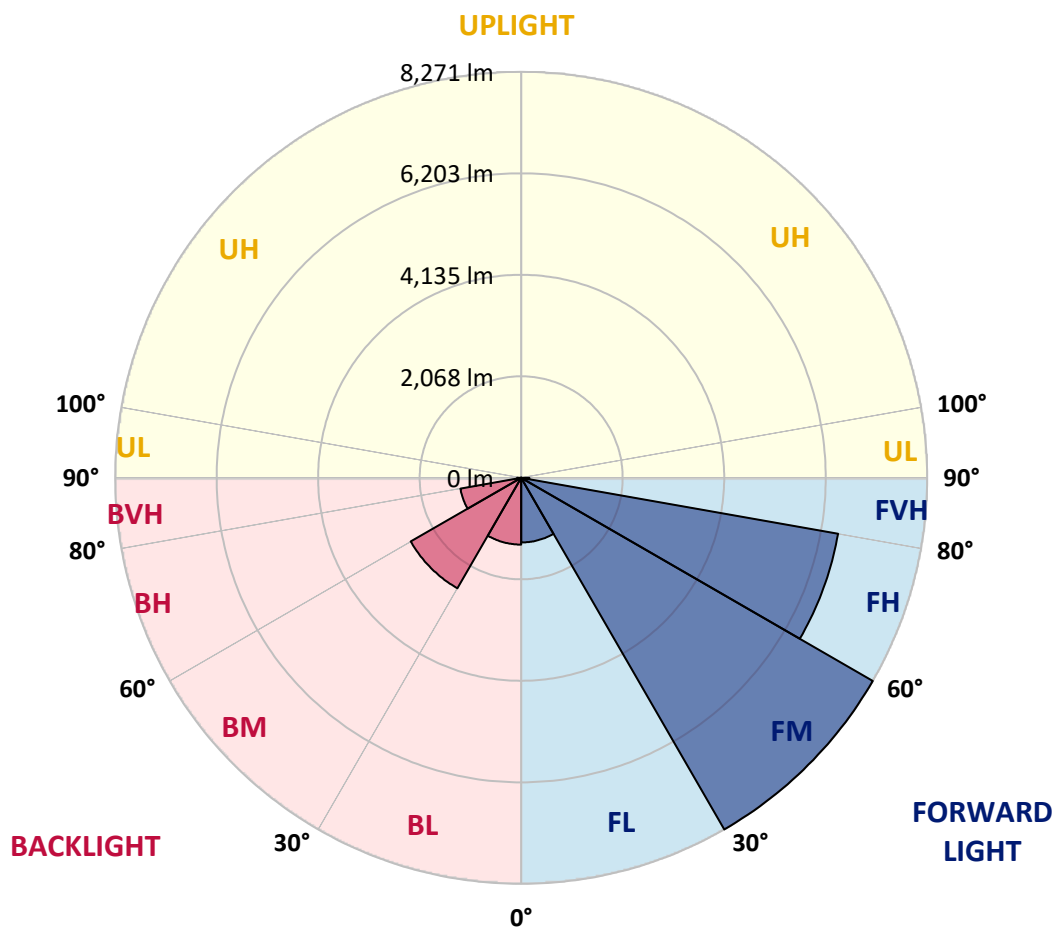
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1317.2	6.1			
FM	(30°-60°)	8270.9	38.3			
FH	(60°-80°)	6555.6	30.3			G3/7500
FVH	(80°-90°)	165.9	0.8			G2/225
BL	(0°-30°)	1360.9	6.3	B3/2500		
BM	(30°-60°)	2598.3	12.0	B3/5000		
BH	(60°-80°)	1257.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	80.8	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1
2.5°	2410.1	2404.5	2418.4	2432.3	2463.0	2499.2	2549.4	2591.2	2596.7	2674.7	2736.0
5°	2268.0	2259.6	2273.5	2290.2	2304.2	2348.8	2401.7	2463.0	2488.1	2602.3	2733.2
7.5°	2281.9	2279.1	2284.7	2279.1	2279.1	2298.6	2334.8	2396.1	2424.0	2560.5	2747.2
10°	2362.7	2368.3	2371.0	2354.3	2337.6	2329.3	2340.4	2382.2	2401.7	2563.3	2808.5
12.5°	2496.4	2504.8	2507.6	2476.9	2454.6	2418.4	2398.9	2415.6	2429.6	2591.2	2894.8
15°	2677.5	2683.1	2663.6	2644.1	2588.4	2543.8	2496.4	2482.5	2488.1	2649.7	2992.4
17.5°	2889.3	2880.9	2880.9	2833.6	2761.1	2691.5	2613.4	2602.3	2602.3	2744.4	3131.7
20°	3120.5	3128.9	3103.8	3039.7	2967.3	2858.6	2780.6	2730.5	2736.0	2853.1	3301.6
22.5°	3454.9	3468.8	3401.9	3310.0	3198.5	3073.2	2961.7	2880.9	2883.7	2995.2	3477.2
25°	3814.3	3819.9	3778.1	3655.5	3505.0	3326.7	3179.0	3076.0	3073.2	3154.0	3702.8
27.5°	4182.1	4207.1	4123.6	4006.5	3867.2	3644.3	3449.3	3310.0	3287.7	3396.4	3984.2
30°	4561.0	4591.6	4510.8	4396.6	4223.9	4034.4	3803.1	3641.5	3627.6	3772.5	4360.4
32.5°	4942.7	4951.1	4887.0	4792.2	4636.2	4457.9	4271.2	4092.9	4079.0	4315.8	4848.0
35°	5254.7	5279.8	5235.2	5213.0	5098.7	4934.3	4753.2	4650.1	4686.4	4990.1	5480.4
37.5°	5630.9	5656.0	5605.8	5600.2	5564.0	5421.9	5296.5	5304.9	5341.1	5753.5	6146.3
40°	6174.2	6202.1	6073.9	6018.2	6018.2	5878.9	5837.1	6034.9	6082.2	6505.7	6840.1
42.5°	6633.9	6678.5	6603.3	6567.0	6458.4	6360.9	6411.0	6689.6	6770.4	7224.6	7444.7
45°	6856.8	6890.2	6979.4	7085.3	6979.4	6809.4	6998.9	7313.7	7428.0	7887.7	8049.3
47.5°	6976.6	7007.3	7110.4	7394.5	7467.0	7324.9	7592.4	7985.2	8063.2	8545.2	8626.0
50°	6993.3	7090.8	7224.6	7508.8	7840.3	7859.8	8188.6	8667.8	8759.8	9191.6	9133.1
52.5°	6856.8	6895.8	7171.6	7650.9	8018.6	8353.0	8837.8	9322.6	9389.5	9799.0	9581.7
55°	6633.9	6689.6	6965.5	7617.4	8191.4	8821.1	9498.1	9966.2	10041.4	10389.7	9996.8
57.5°	6433.3	6461.2	6756.5	7519.9	8364.1	9289.1	10086.0	10637.7	10687.8	10907.9	10303.3
60°	6210.4	6241.1	6536.4	7311.0	8492.3	9643.0	10699.0	11314.7	11359.3	11454.0	10660.0
62.5°	5633.7	5714.5	6085.0	6965.5	8458.9	10047.0	11353.7	11983.4	12039.1	11936.0	10941.4
65°	4574.9	4689.2	5143.3	6182.6	8146.8	10308.9	11888.7	12599.1	12693.9	12298.2	11016.6
67.5°	3552.4	3633.2	3998.2	4906.5	7051.8	10177.9	12234.1	13022.6	13050.5	12239.7	10598.7
68°	3368.5	3449.3	3797.6	4639.0	6748.1	10021.9	12225.8	13033.8	13095.1	12175.6	10437.1
70°	2577.2	2669.2	3000.7	3675.0	5438.6	9030.0	11715.9	12766.3	12758.0	11401.1	9434.0
72.5°	1610.4	1663.4	1891.8	2318.1	3597.0	6870.7	9943.9	11259.0	11281.3	9294.7	7235.7
75°	1022.5	1022.5	1011.4	1122.8	1844.5	3914.6	7391.8	8667.8	8684.5	6508.5	4561.0
77.5°	888.8	863.7	743.9	629.7	735.6	1521.3	4374.3	5597.5	5505.5	3505.0	2164.9
80°	749.5	707.7	610.2	507.1	473.7	476.4	1680.1	2841.9	2719.3	1262.1	718.8
82.5°	540.5	504.3	459.7	398.4	365.0	284.2	351.1	821.9	802.4	365.0	234.0
85°	292.5	264.7	259.1	261.9	220.1	175.5	147.7	181.1	181.1	158.8	133.7
87.5°	103.1	75.2	89.2	100.3	86.4	72.4	58.5	69.7	72.4	69.7	64.1
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°	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1
2.5°	2772.3	2800.1	2867.0	2925.5	2967.3	3003.5	3023.0	3031.4	3050.9	3053.7	3048.1
5°	2794.5	2867.0	2967.3	3053.7	3101.0	3120.5	3126.1	3128.9	3120.5	3126.1	3120.5
7.5°	2853.1	2945.0	3087.1	3162.3	3170.7	3140.0	3142.8	3131.7	3142.8	3154.0	3154.0
10°	2942.2	3059.2	3193.0	3220.8	3184.6	3167.9	3201.3	3268.2	3290.5	3321.1	3321.1
12.5°	3059.2	3198.5	3293.3	3268.2	3234.8	3290.5	3388.0	3454.9	3477.2	3488.3	3479.9
15°	3193.0	3343.4	3390.8	3307.2	3368.5	3488.3	3521.7	3482.7	3427.0	3401.9	3415.9
17.5°	3362.9	3488.3	3460.4	3404.7	3544.0	3560.7	3452.1	3326.7	3237.5	3204.1	3226.4
20°	3541.2	3649.9	3521.7	3546.8	3633.2	3454.9	3248.7	3087.1	3009.1	2995.2	3017.4
22.5°	3730.7	3800.4	3583.0	3711.2	3583.0	3220.8	2972.9	2889.3	2869.8	2892.1	2911.6
25°	3945.2	3936.9	3688.9	3761.4	3396.4	2933.9	2786.2	2780.6	2780.6	2794.5	2822.4
27.5°	4187.6	4056.7	3794.8	3694.5	3073.2	2697.0	2669.2	2672.0	2663.6	2666.4	2680.3
30°	4469.0	4218.3	3911.8	3474.4	2711.0	2518.7	2507.6	2499.2	2479.7	2474.1	2479.7
32.5°	4822.9	4388.2	4031.6	3112.2	2393.3	2334.8	2329.3	2284.7	2237.3	2231.7	2251.2
35°	5271.5	4697.5	4092.9	2658.0	2131.4	2128.6	2109.1	2039.5	1978.2	1978.2	1964.3
37.5°	5784.1	5095.9	4118.0	2215.0	1914.1	1928.0	1872.3	1783.2	1735.8	1707.9	1716.3
40°	6307.9	5550.1	4115.2	1827.7	1724.7	1727.4	1685.6	1577.0	1460.0	1390.3	1407.0
42.5°	6812.2	5962.4	4042.8	1621.6	1571.4	1563.1	1529.6	1381.9	1284.4	1228.7	1231.5
45°	7216.2	6388.7	3931.3	1499.0	1432.1	1446.0	1370.8	1281.6	1192.5	1142.3	1139.6
47.5°	7620.2	6711.9	3753.0	1423.7	1329.0	1303.9	1273.3	1212.0	1145.1	1089.4	1092.2
50°	7988.0	6987.8	3585.8	1373.6	1234.3	1170.2	1175.8	1139.6	1081.0	1030.9	1028.1
52.5°	8247.1	7168.9	3493.9	1345.7	1120.0	1050.4	1069.9	1050.4	994.7	958.4	955.7
55°	8506.2	7308.2	3524.5	1309.5	994.7	938.9	972.4	966.8	936.2	925.0	927.8
57.5°	8715.2	7414.0	3633.2	1242.6	874.9	841.4	897.2	880.4	858.1	860.9	860.9
60°	8918.6	7550.6	3761.4	1089.4	771.8	774.6	827.5	796.8	782.9	808.0	810.8
62.5°	9130.3	7698.2	3655.5	866.5	682.6	702.1	763.4	738.3	743.9	780.1	791.3
65°	9105.3	7684.3	2978.4	710.5	604.6	643.6	735.6	727.2	730.0	743.9	749.5
67.5°	8592.6	7193.9	2047.8	604.6	548.9	596.2	713.3	679.8	682.6	674.3	677.0
68°	8419.9	7021.2	1805.4	587.9	537.7	585.1	702.1	671.5	674.3	665.9	663.1
70°	7478.1	6012.6	1142.3	518.2	498.7	554.5	646.4	635.3	632.5	626.9	626.9
72.5°	5700.5	4438.4	601.8	448.6	454.1	507.1	576.7	599.0	585.1	587.9	604.6
75°	3775.3	2669.2	417.9	384.5	398.4	434.6	512.7	557.2	543.3	551.7	543.3
77.5°	1997.7	1437.7	334.3	326.0	326.0	351.1	423.5	493.2	493.2	487.6	479.2
80°	654.8	507.1	267.5	256.3	261.9	275.8	339.9	404.0	412.4	401.2	395.6
82.5°	220.1	234.0	200.6	186.7	192.2	203.4	256.3	309.3	312.1	289.8	284.2
85°	136.5	156.0	125.4	122.6	122.6	125.4	156.0	170.0	156.0	139.3	144.9
87.5°	64.1	78.0	58.5	50.2	41.8	36.2	27.9	11.1	11.1	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)