

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: P1210923

Luminaire Tested: **ARCH4-110-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210923
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: ARCH4-110-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19380 lumens
Efficiency: N/A
Efficacy: 172.1 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): 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



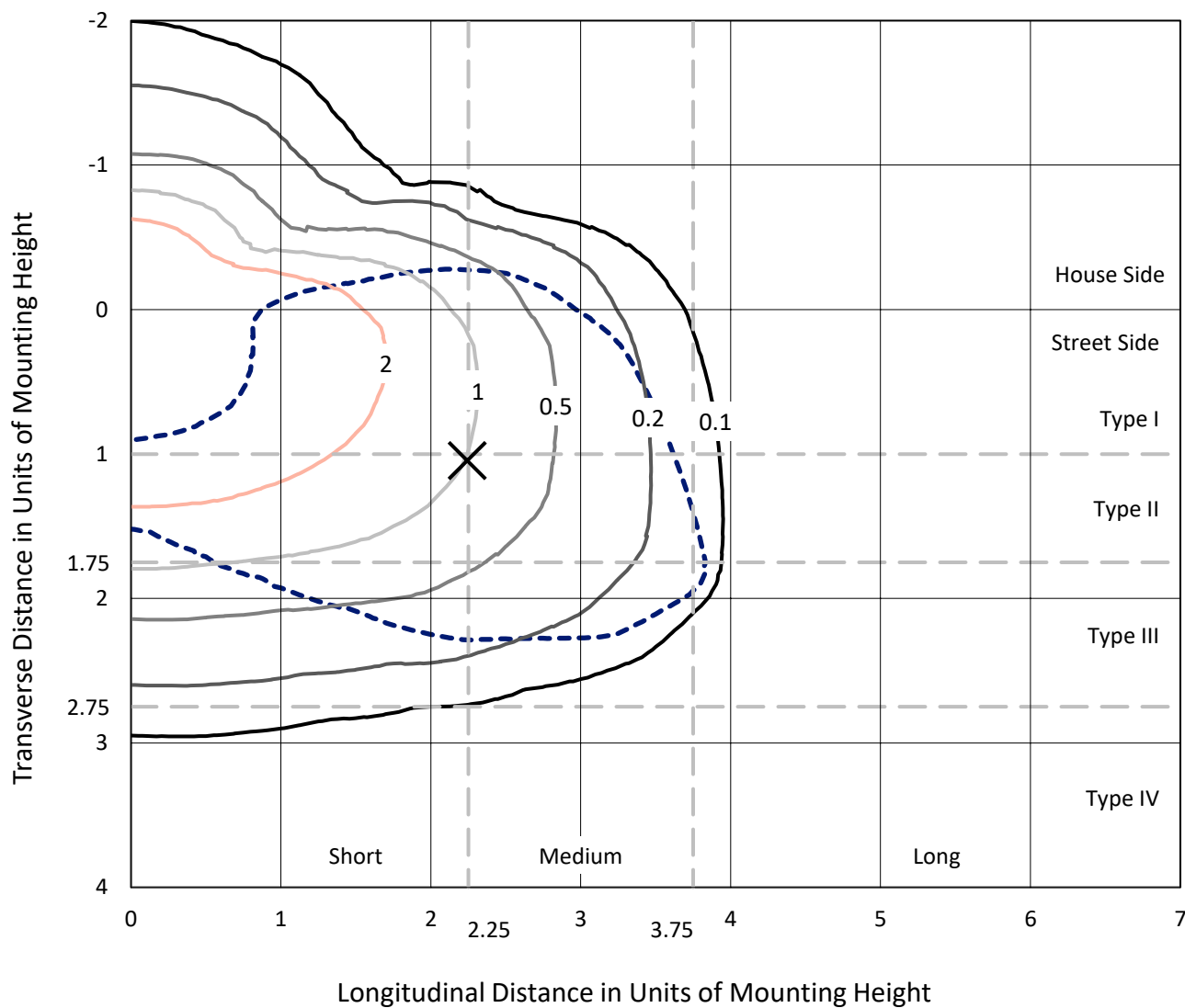
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



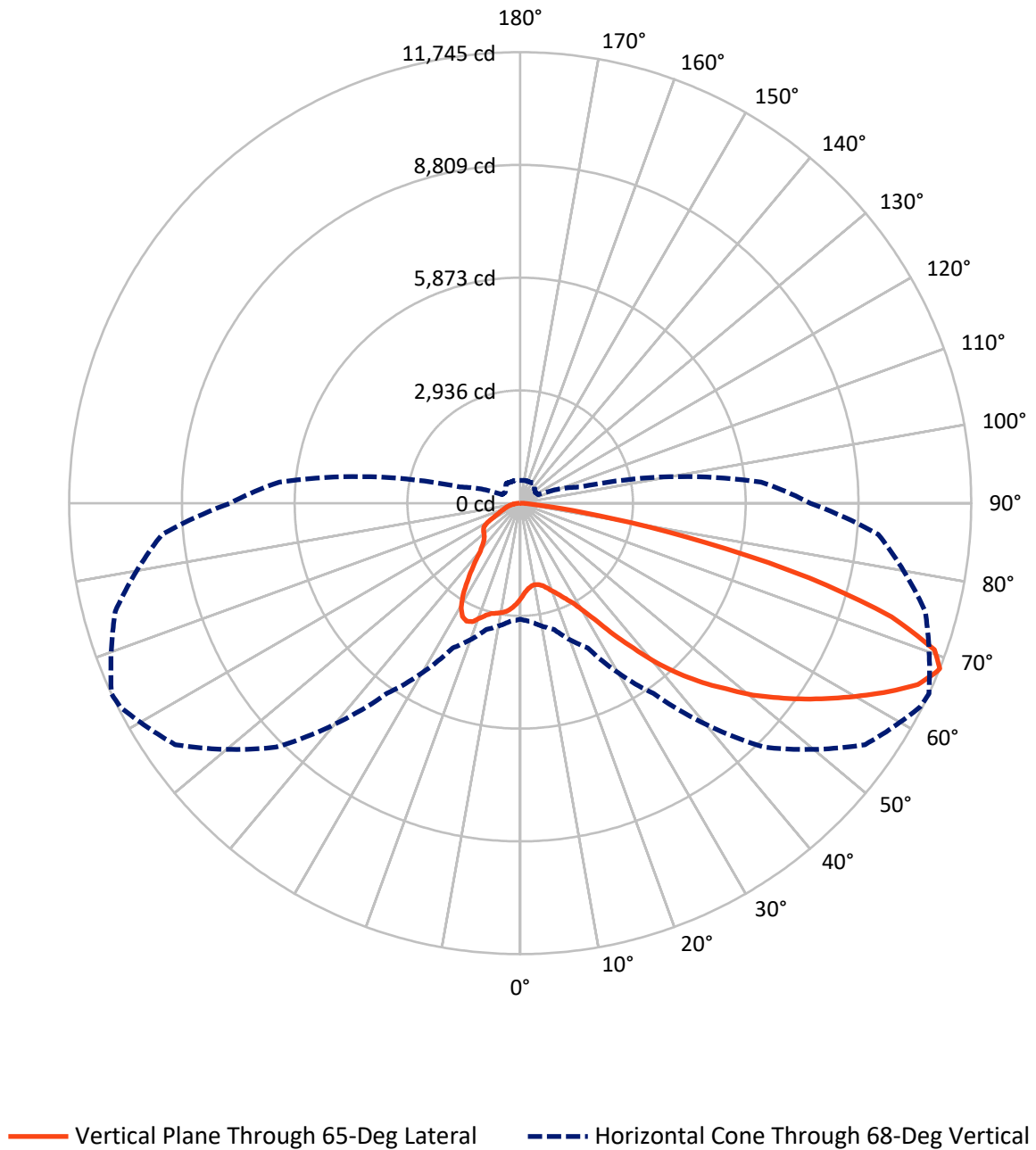
Based on 25 foot mounting height. Maximum calculated value = 4.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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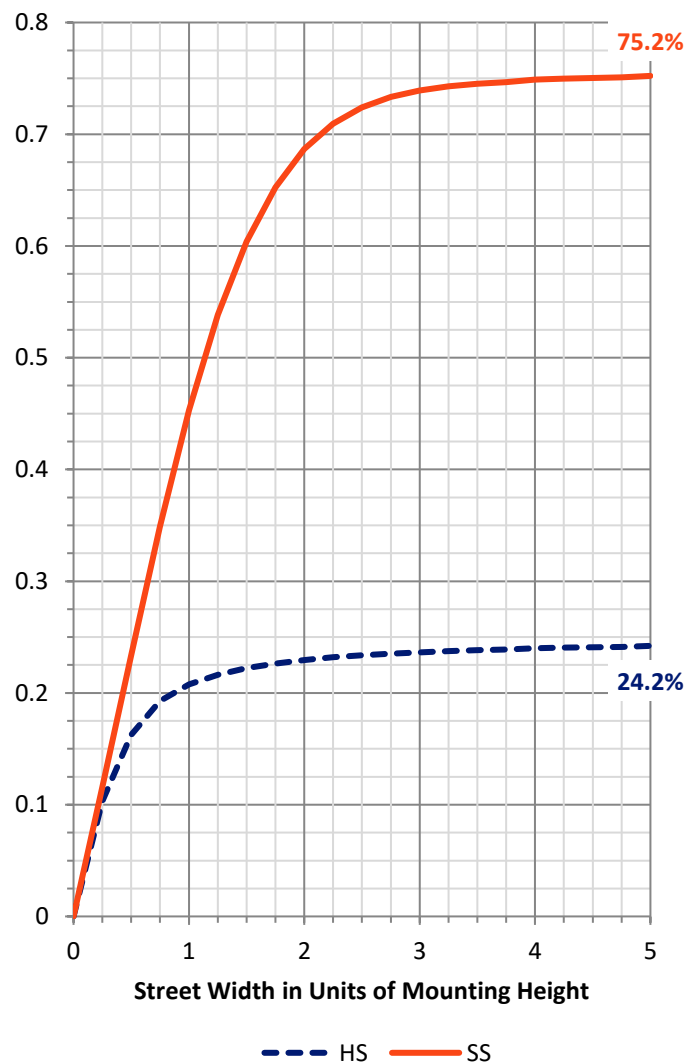
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4751.4	0.0	4751.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	14628.6	0.0	14628.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	19380.0	0.0	19380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.7	1.2
10°-20°	770.6	4.0
20°-30°	1394.8	7.2
30°-40°	2194.1	11.3
40°-50°	3267.9	16.9
50°-60°	4286.9	22.1
60°-70°	4688.0	24.2
70°-80°	2319.7	12.0
80°-90°	221.3	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°	19380.0	100.0
0°-180°	19380.0	100.0

Coefficient of Utilization



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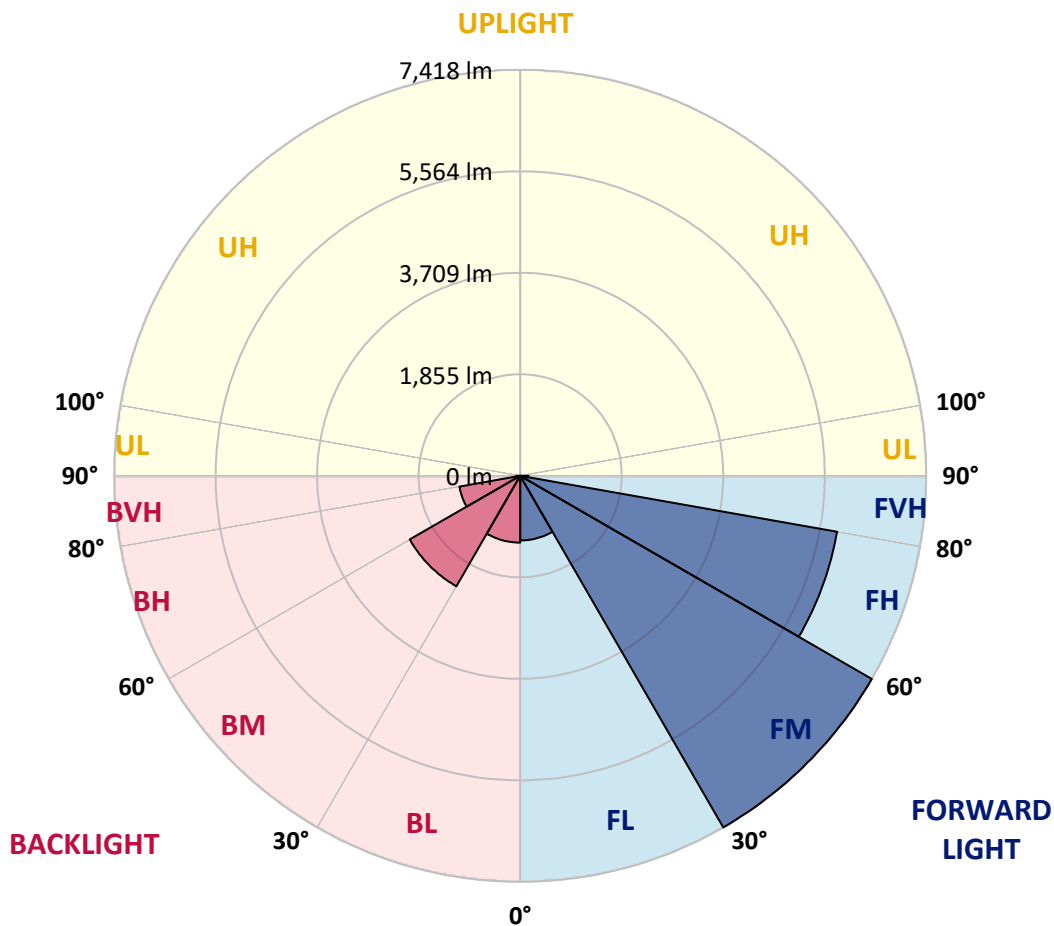
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1181.4	6.1			
FM	(30°-60°)	7418.4	38.3			
FH	(60°-80°)	5879.9	30.3			G3/7500
FVH	(80°-90°)	148.8	0.8			G2/225
BL	(0°-30°)	1220.7	6.3	B3/2500		
BM	(30°-60°)	2330.5	12.0	B2/2500		
BH	(60°-80°)	1127.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	72.5	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°	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5
2.5°	2161.7	2156.7	2169.1	2181.6	2209.1	2241.6	2286.6	2324.1	2329.1	2399.1	2454.0
5°	2034.2	2026.7	2039.2	2054.2	2066.7	2106.7	2154.2	2209.1	2231.6	2334.1	2451.5
7.5°	2046.7	2044.2	2049.2	2044.2	2044.2	2061.7	2094.2	2149.2	2174.1	2296.6	2464.0
10°	2119.2	2124.2	2126.7	2111.7	2096.7	2089.2	2099.2	2136.7	2154.2	2299.1	2519.0
12.5°	2239.1	2246.6	2249.1	2221.6	2201.6	2169.1	2151.7	2166.6	2179.1	2324.1	2596.5
15°	2401.6	2406.6	2389.1	2371.6	2321.6	2281.6	2239.1	2226.6	2231.6	2376.6	2683.9
17.5°	2591.5	2584.0	2584.0	2541.5	2476.5	2414.1	2344.1	2334.1	2334.1	2461.5	2808.9
20°	2798.9	2806.4	2783.9	2726.4	2661.5	2564.0	2494.0	2449.0	2454.0	2559.0	2961.3
22.5°	3098.8	3111.3	3051.3	2968.8	2868.9	2756.4	2656.5	2584.0	2586.5	2686.4	3118.8
25°	3421.2	3426.2	3388.7	3278.7	3143.8	2983.8	2851.4	2758.9	2756.4	2828.9	3321.2
27.5°	3751.0	3773.5	3698.5	3593.6	3468.6	3268.7	3093.8	2968.8	2948.8	3046.3	3573.6
30°	4090.9	4118.4	4045.9	3943.5	3788.5	3618.6	3411.2	3266.2	3253.7	3383.7	3911.0
32.5°	4433.3	4440.8	4383.3	4298.3	4158.4	3998.4	3831.0	3671.1	3658.6	3871.0	4348.3
35°	4713.2	4735.6	4695.7	4675.7	4573.2	4425.8	4263.3	4170.9	4203.4	4475.7	4915.6
37.5°	5050.5	5073.0	5028.0	5023.0	4990.5	4863.1	4750.6	4758.1	4790.6	5160.5	5512.8
40°	5537.8	5562.8	5447.9	5397.9	5397.9	5272.9	5235.4	5412.9	5455.4	5835.2	6135.1
42.5°	5950.2	5990.1	5922.7	5890.2	5792.7	5705.3	5750.2	6000.1	6072.6	6480.0	6677.4
45°	6150.1	6180.1	6260.0	6355.0	6260.0	6107.6	6277.5	6559.9	6662.4	7074.7	7219.7
47.5°	6257.5	6285.0	6377.5	6632.4	6697.4	6569.9	6809.8	7162.2	7232.2	7664.5	7737.0
50°	6272.5	6360.0	6480.0	6734.9	7032.2	7049.7	7344.6	7774.4	7856.9	8244.3	8191.8
52.5°	6150.1	6185.1	6432.5	6862.3	7192.2	7492.1	7926.9	8361.7	8421.7	8789.1	8594.1
55°	5950.2	6000.1	6247.5	6832.3	7347.1	7911.9	8519.2	8939.0	9006.5	9318.8	8966.5
57.5°	5770.2	5795.2	6060.1	6744.9	7502.1	8331.7	9046.5	9541.3	9586.2	9783.7	9241.4
60°	5570.3	5597.8	5862.7	6557.4	7617.0	8649.1	9596.2	10148.5	10188.5	10273.5	9561.2
62.5°	5053.0	5125.5	5457.9	6247.5	7587.0	9011.5	10183.5	10748.3	10798.3	10705.8	9813.6
65°	4103.4	4205.8	4613.2	5545.3	7307.1	9246.4	10663.3	11300.6	11385.5	11030.7	9881.1
67.5°	3186.2	3258.7	3586.1	4400.8	6325.0	9128.9	10973.2	11680.4	11705.4	10978.2	9506.3
68°	3021.3	3093.8	3406.2	4160.9	6052.6	8989.0	10965.7	11690.4	11745.4	10920.7	9361.3
70°	2311.6	2394.1	2691.4	3296.2	4878.1	8099.3	10508.4	11450.5	11443.0	10226.0	8461.7
72.5°	1444.4	1491.9	1696.8	2079.2	3226.2	6162.6	8919.0	10098.5	10118.5	8336.7	6490.0
75°	917.1	917.1	907.1	1007.1	1654.4	3511.1	6629.9	7774.4	7789.4	5837.7	4090.9
77.5°	797.2	774.7	667.2	564.8	659.7	1364.5	3923.5	5020.5	4938.1	3143.8	1941.7
80°	672.2	634.8	547.3	454.8	424.8	427.3	1506.9	2549.0	2439.0	1132.1	644.7
82.5°	484.8	452.3	412.3	357.4	327.4	254.9	314.9	737.2	719.7	327.4	209.9
85°	262.4	237.4	232.4	234.9	197.4	157.4	132.4	162.4	162.4	142.4	120.0
87.5°	92.5	67.5	80.0	90.0	77.5	65.0	52.5	62.5	65.0	62.5	57.5
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°	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5
2.5°	2486.5	2511.5	2571.5	2624.0	2661.5	2693.9	2711.4	2718.9	2736.4	2738.9	2733.9
5°	2506.5	2571.5	2661.5	2738.9	2781.4	2798.9	2803.9	2806.4	2798.9	2803.9	2798.9
7.5°	2559.0	2641.5	2768.9	2836.4	2843.9	2816.4	2818.9	2808.9	2818.9	2828.9	2828.9
10°	2639.0	2743.9	2863.9	2888.9	2856.4	2841.4	2871.4	2931.3	2951.3	2978.8	2978.8
12.5°	2743.9	2868.9	2953.8	2931.3	2901.4	2951.3	3038.8	3098.8	3118.8	3128.8	3121.3
15°	2863.9	2998.8	3041.3	2966.3	3021.3	3128.8	3158.8	3123.8	3073.8	3051.3	3063.8
17.5°	3016.3	3128.8	3103.8	3053.8	3178.8	3193.7	3096.3	2983.8	2903.9	2873.9	2893.9
20°	3176.3	3273.7	3158.8	3181.3	3258.7	3098.8	2913.9	2768.9	2698.9	2686.4	2706.4
22.5°	3346.2	3408.7	3213.7	3328.7	3213.7	2888.9	2666.5	2591.5	2574.0	2594.0	2611.5
25°	3538.6	3531.1	3308.7	3373.7	3046.3	2631.5	2499.0	2494.0	2494.0	2506.5	2531.5
27.5°	3756.0	3638.6	3403.7	3313.7	2756.4	2419.1	2394.1	2396.6	2389.1	2391.6	2404.1
30°	4008.4	3783.5	3508.6	3116.3	2431.5	2259.1	2249.1	2241.6	2224.1	2219.1	2224.1
32.5°	4325.8	3936.0	3616.1	2791.4	2146.7	2094.2	2089.2	2049.2	2006.7	2001.7	2019.2
35°	4728.1	4213.3	3671.1	2384.1	1911.7	1909.3	1891.8	1829.3	1774.3	1774.3	1761.8
37.5°	5188.0	4570.7	3693.6	1986.7	1716.8	1729.3	1679.3	1599.4	1556.9	1531.9	1539.4
40°	5657.8	4978.0	3691.1	1639.4	1546.9	1549.4	1511.9	1414.4	1309.5	1247.0	1262.0
42.5°	6110.1	5347.9	3626.1	1454.4	1409.4	1401.9	1372.0	1239.5	1152.0	1102.1	1104.6
45°	6472.5	5730.3	3526.1	1344.5	1284.5	1297.0	1229.5	1149.5	1069.6	1024.6	1022.1
47.5°	6834.8	6020.1	3366.2	1277.0	1192.0	1169.5	1142.1	1087.1	1027.1	977.1	979.6
50°	7164.7	6267.5	3216.2	1232.0	1107.1	1049.6	1054.6	1022.1	969.6	924.6	922.1
52.5°	7397.1	6430.0	3133.8	1207.0	1004.6	942.1	959.6	942.1	892.1	859.7	857.2
55°	7629.5	6554.9	3161.3	1174.5	892.1	842.2	872.2	867.2	839.7	829.7	832.2
57.5°	7816.9	6649.9	3258.7	1114.6	784.7	754.7	804.7	789.7	769.7	772.2	772.2
60°	7999.4	6772.3	3373.7	977.1	692.2	694.7	742.2	714.7	702.2	724.7	727.2
62.5°	8189.3	6904.8	3278.7	777.2	612.3	629.8	684.7	662.2	667.2	699.7	709.7
65°	8166.8	6892.3	2671.5	637.2	542.3	577.3	659.7	652.2	654.7	667.2	672.2
67.5°	7707.0	6452.5	1836.8	542.3	492.3	534.8	639.7	609.8	612.3	604.8	607.3
68°	7552.0	6297.5	1619.4	527.3	482.3	524.8	629.8	602.3	604.8	597.3	594.8
70°	6707.4	5392.9	1024.6	464.8	447.3	497.3	579.8	569.8	567.3	562.3	562.3
72.5°	5113.0	3980.9	539.8	402.3	407.3	454.8	517.3	537.3	524.8	527.3	542.3
75°	3386.2	2394.1	374.9	344.9	357.4	389.8	459.8	499.8	487.3	494.8	487.3
77.5°	1791.8	1289.5	299.9	292.4	292.4	314.9	379.9	442.3	442.3	437.3	429.8
80°	587.3	454.8	239.9	229.9	234.9	247.4	304.9	362.4	369.9	359.9	354.9
82.5°	197.4	209.9	179.9	167.4	172.4	182.4	229.9	277.4	279.9	259.9	254.9
85°	122.5	139.9	112.5	110.0	110.0	112.5	139.9	152.4	139.9	125.0	129.9
87.5°	57.5	70.0	52.5	45.0	37.5	32.5	25.0	10.0	10.0	5.0	5.0
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)