

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: P1210459

Luminaire Tested: **ARCH3-130-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210459
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: ARCH3-130-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18118 lumens
Efficiency: N/A
Efficacy: 136.6 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): 132.6
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



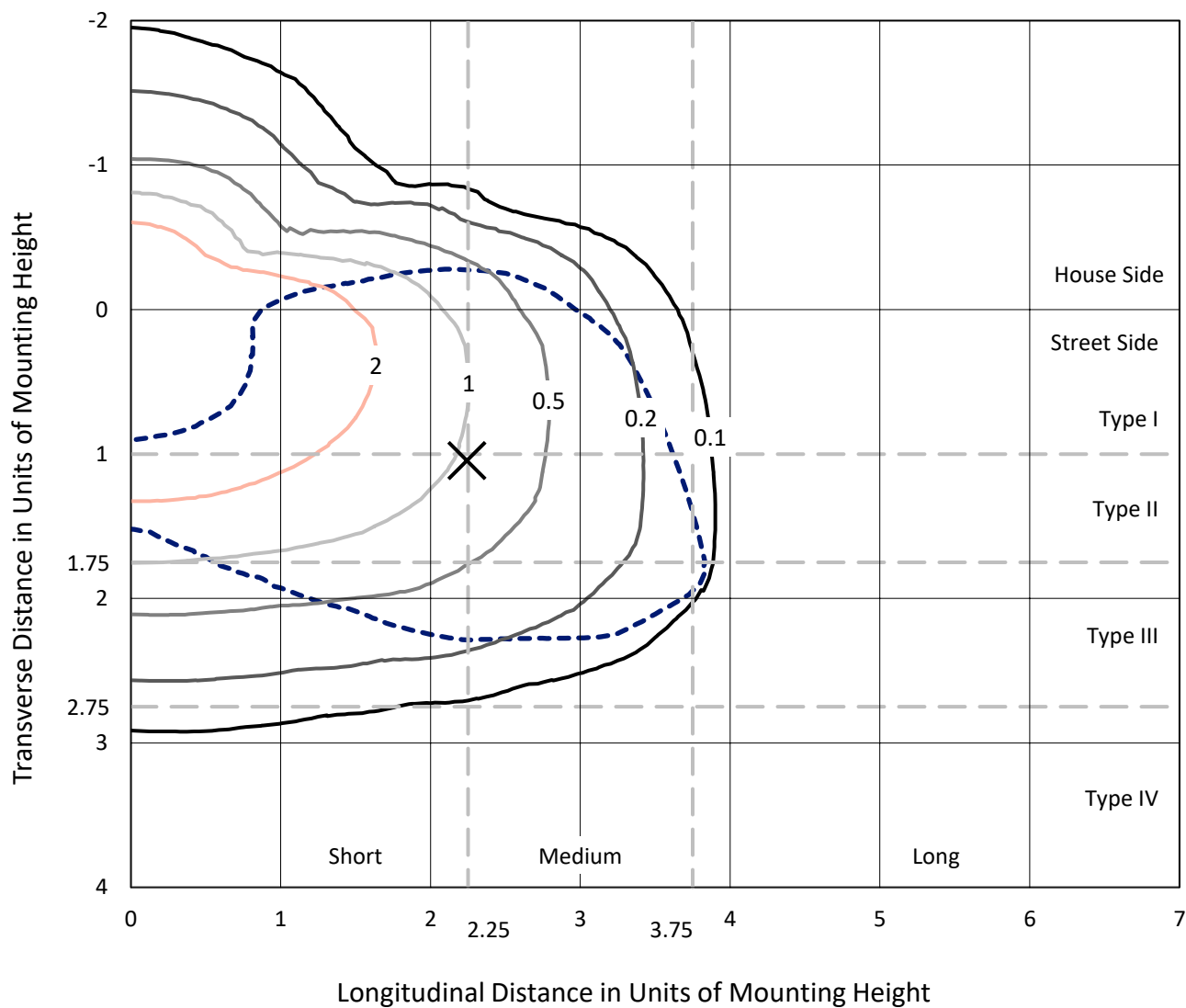
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



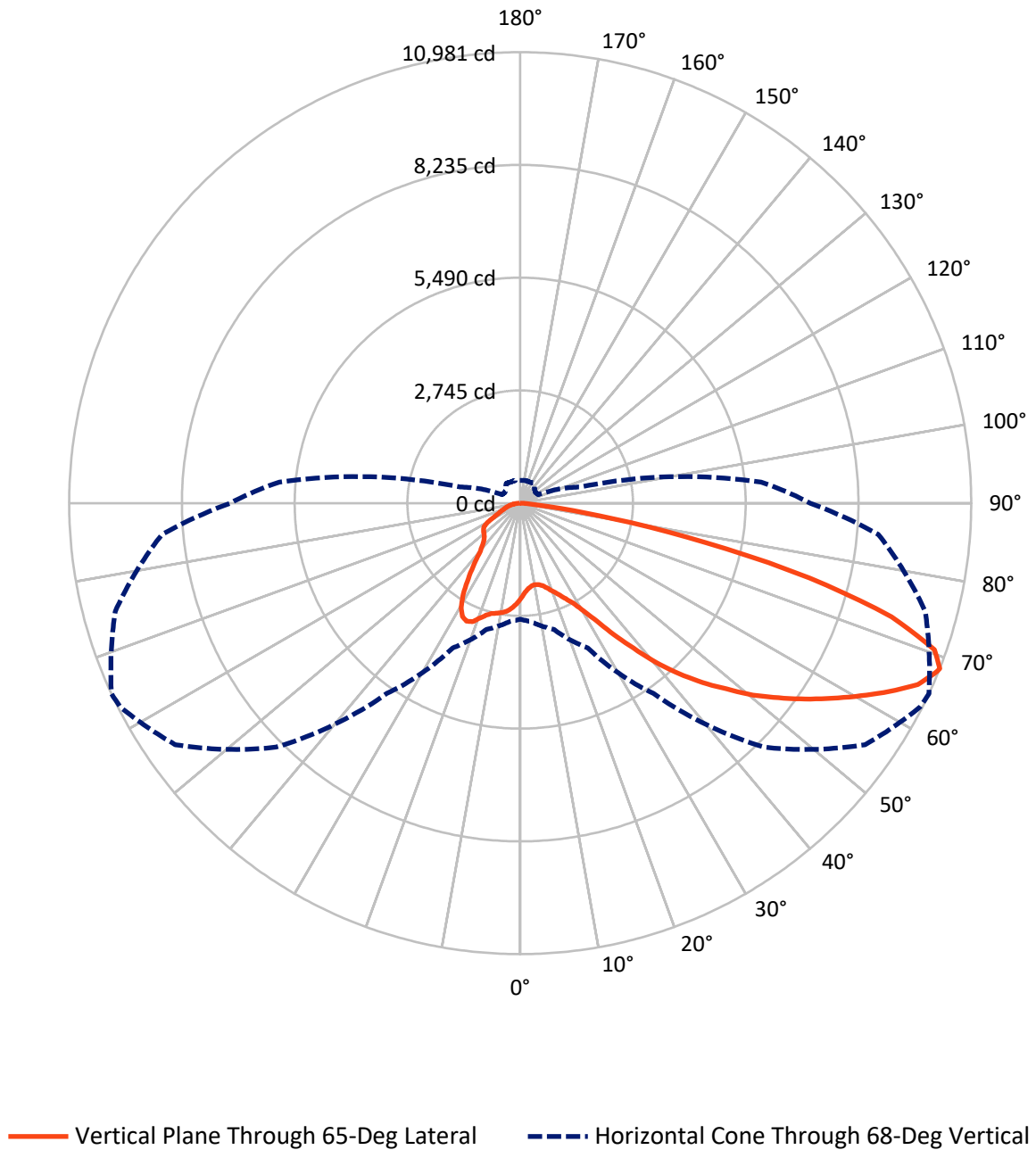
Based on 25 foot mounting height. Maximum calculated value = 4.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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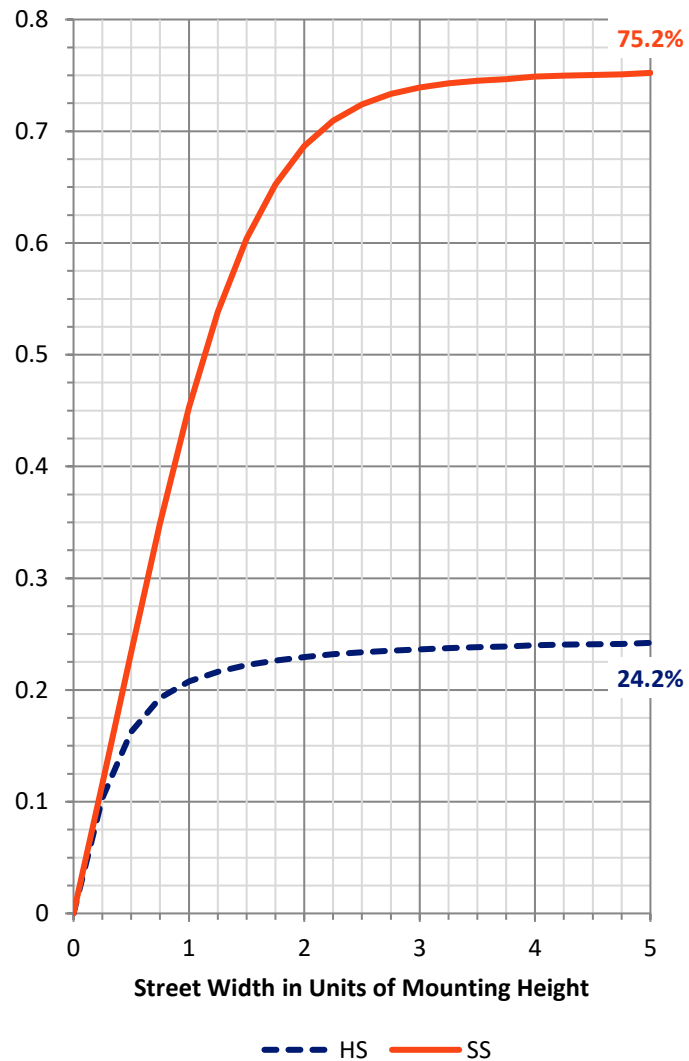
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4442.0	0.0	4442.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	13676.0	0.0	13676.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	18118.0	0.0	18118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	1.2
10°-20°	720.4	4.0
20°-30°	1304.0	7.2
30°-40°	2051.3	11.3
40°-50°	3055.1	16.9
50°-60°	4007.7	22.1
60°-70°	4382.7	24.2
70°-80°	2168.7	12.0
80°-90°	206.9	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°	18118.0	100.0
0°-180°	18118.0	100.0

Coefficient of Utilization



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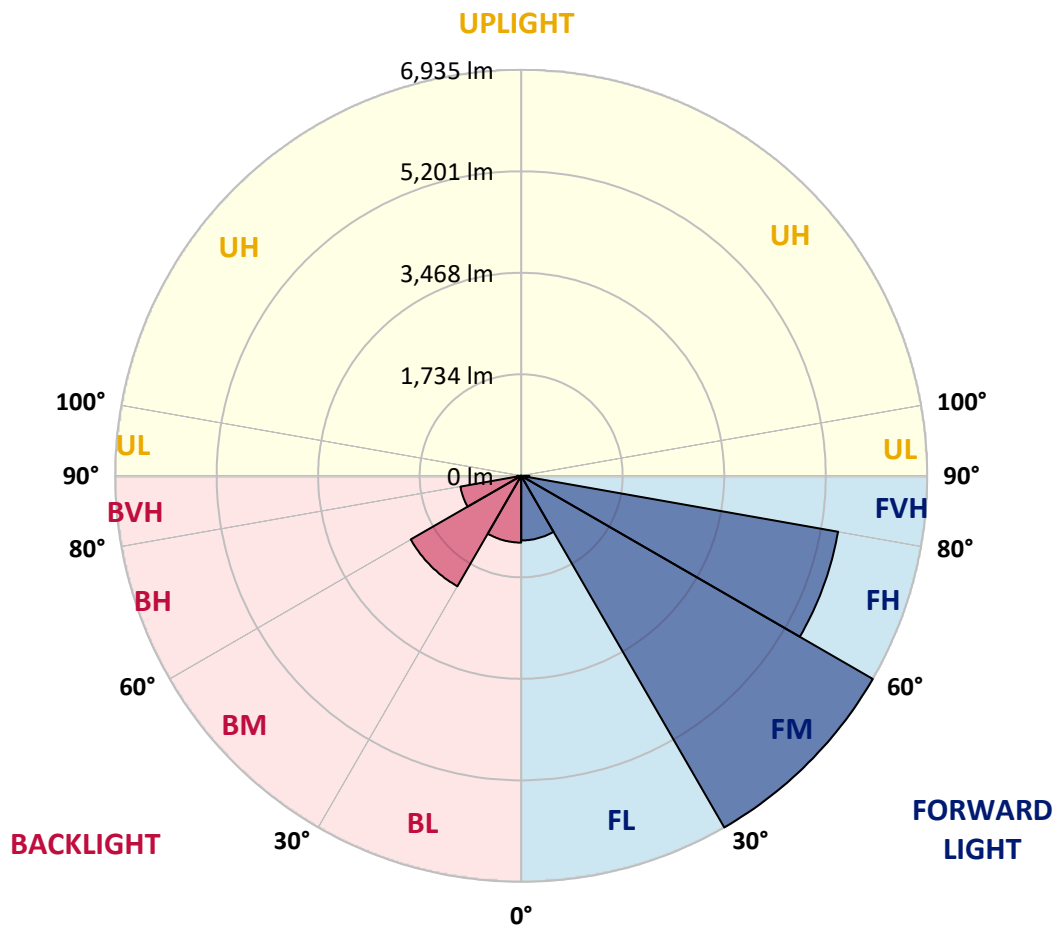
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1104.5	6.1			
FM	(30°-60°)	6935.3	38.3			
FH	(60°-80°)	5497.1	30.3			G3/7500
FVH	(80°-90°)	139.1	0.8			G2/225
BL	(0°-30°)	1141.2	6.3	B3/2500		
BM	(30°-60°)	2178.8	12.0	B2/2500		
BH	(60°-80°)	1054.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	67.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3
2.5°	2020.9	2016.2	2027.9	2039.6	2065.3	2095.6	2137.7	2172.7	2177.4	2242.8	2294.2
5°	1901.7	1894.7	1906.4	1920.4	1932.1	1969.5	2013.9	2065.3	2086.3	2182.1	2291.9
7.5°	1913.4	1911.1	1915.8	1911.1	1911.1	1927.4	1957.8	2009.2	2032.6	2147.0	2303.6
10°	1981.2	1985.8	1988.2	1974.2	1960.1	1953.1	1962.5	1997.5	2013.9	2149.4	2355.0
12.5°	2093.3	2100.3	2102.7	2077.0	2058.3	2027.9	2011.5	2025.6	2037.2	2172.7	2427.4
15°	2245.2	2249.8	2233.5	2217.1	2170.4	2133.0	2093.3	2081.6	2086.3	2221.8	2509.2
17.5°	2422.7	2415.7	2415.7	2376.0	2315.3	2256.9	2191.4	2182.1	2182.1	2301.2	2626.0
20°	2616.6	2623.6	2602.6	2548.9	2488.1	2397.0	2331.6	2289.6	2294.2	2392.4	2768.5
22.5°	2897.0	2908.7	2852.6	2775.5	2682.1	2576.9	2483.5	2415.7	2418.1	2511.5	2915.7
25°	3198.4	3203.0	3168.0	3065.2	2939.0	2789.5	2665.7	2579.3	2576.9	2644.7	3104.9
27.5°	3506.8	3527.8	3457.7	3359.6	3242.8	3055.9	2892.3	2775.5	2756.8	2847.9	3340.9
30°	3824.5	3850.2	3782.4	3686.7	3541.8	3382.9	3189.0	3053.5	3041.8	3163.3	3656.3
32.5°	4144.6	4151.6	4097.8	4018.4	3887.6	3738.1	3581.5	3432.0	3420.3	3618.9	4065.1
35°	4406.2	4427.3	4389.9	4371.2	4275.4	4137.6	3985.7	3899.3	3929.6	4184.3	4595.5
37.5°	4721.6	4742.7	4700.6	4695.9	4665.6	4546.4	4441.3	4448.3	4478.7	4824.4	5153.8
40°	5177.2	5200.6	5093.1	5046.4	5046.4	4929.6	4894.5	5060.4	5100.1	5455.2	5735.6
42.5°	5562.7	5600.1	5537.0	5506.6	5415.5	5333.7	5375.8	5609.4	5677.2	6058.0	6242.6
45°	5749.6	5777.6	5852.4	5941.2	5852.4	5709.9	5868.8	6132.8	6228.5	6614.0	6749.5
47.5°	5850.1	5875.8	5962.2	6200.5	6261.2	6142.1	6366.4	6695.8	6761.2	7165.4	7233.1
50°	5864.1	5945.8	6058.0	6296.3	6574.3	6590.7	6866.3	7268.2	7345.3	7707.4	7658.3
52.5°	5749.6	5782.3	6013.6	6415.4	6723.8	7004.2	7410.7	7817.2	7873.3	8216.7	8034.5
55°	5562.7	5609.4	5840.7	6387.4	6868.7	7396.7	7964.4	8356.9	8420.0	8712.0	8382.6
57.5°	5394.5	5417.8	5665.5	6305.6	7013.5	7789.2	8457.4	8919.9	8962.0	9146.6	8639.6
60°	5207.6	5233.3	5480.9	6130.4	7121.0	8085.9	8971.3	9487.7	9525.0	9604.5	8938.6
62.5°	4724.0	4791.7	5102.5	5840.7	7093.0	8424.6	9520.4	10048.4	10095.1	10008.7	9174.6
65°	3836.2	3932.0	4312.8	5184.2	6831.3	8644.3	9968.9	10564.7	10644.1	10312.4	9237.7
67.5°	2978.8	3046.5	3352.6	4114.2	5913.1	8534.5	10258.6	10919.8	10943.2	10263.3	8887.2
68°	2824.6	2892.3	3184.4	3889.9	5658.5	8403.6	10251.6	10929.1	10980.5	10209.6	8751.7
70°	2161.1	2238.2	2516.2	3081.6	4560.4	7571.9	9824.1	10704.9	10697.9	9560.1	7910.7
72.5°	1350.4	1394.8	1586.3	1943.8	3016.1	5761.3	8338.2	9440.9	9459.6	7793.9	6067.3
75°	857.4	857.4	848.1	941.5	1546.6	3282.5	6198.2	7268.2	7282.2	5457.6	3824.5
77.5°	745.3	724.2	623.8	528.0	616.8	1275.6	3668.0	4693.6	4616.5	2939.0	1815.3
80°	628.5	593.4	511.6	425.2	397.2	399.5	1408.8	2383.0	2280.2	1058.3	602.8
82.5°	453.2	422.9	385.5	334.1	306.1	238.3	294.4	689.2	672.9	306.1	196.2
85°	245.3	221.9	217.3	219.6	184.6	147.2	123.8	151.9	151.9	133.2	112.1
87.5°	86.4	63.1	74.8	84.1	72.4	60.7	49.1	58.4	60.7	58.4	53.7
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°	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3	2315.3
2.5°	2324.6	2348.0	2404.0	2453.1	2488.1	2518.5	2534.9	2541.9	2558.2	2560.6	2555.9
5°	2343.3	2404.0	2488.1	2560.6	2600.3	2616.6	2621.3	2623.6	2616.6	2621.3	2616.6
7.5°	2392.4	2469.5	2588.6	2651.7	2658.7	2633.0	2635.3	2626.0	2635.3	2644.7	2644.7
10°	2467.1	2565.2	2677.4	2700.7	2670.4	2656.4	2684.4	2740.5	2759.2	2784.9	2784.9
12.5°	2565.2	2682.1	2761.5	2740.5	2712.4	2759.2	2840.9	2897.0	2915.7	2925.0	2918.0
15°	2677.4	2803.5	2843.3	2773.2	2824.6	2925.0	2953.1	2920.4	2873.6	2852.6	2864.3
17.5°	2819.9	2925.0	2901.7	2854.9	2971.8	2985.8	2894.7	2789.5	2714.8	2686.7	2705.4
20°	2969.4	3060.5	2953.1	2974.1	3046.5	2897.0	2724.1	2588.6	2523.2	2511.5	2530.2
22.5°	3128.3	3186.7	3004.5	3111.9	3004.5	2700.7	2492.8	2422.7	2406.4	2425.1	2441.4
25°	3308.2	3301.2	3093.2	3154.0	2847.9	2460.1	2336.3	2331.6	2331.6	2343.3	2366.7
27.5°	3511.4	3401.6	3182.0	3097.9	2576.9	2261.5	2238.2	2240.5	2233.5	2235.8	2247.5
30°	3747.4	3537.1	3280.1	2913.3	2273.2	2112.0	2102.7	2095.6	2079.3	2074.6	2079.3
32.5°	4044.1	3679.7	3380.6	2609.6	2006.9	1957.8	1953.1	1915.8	1876.0	1871.4	1887.7
35°	4420.3	3939.0	3432.0	2228.8	1787.3	1784.9	1768.6	1710.2	1658.8	1658.8	1647.1
37.5°	4850.1	4273.1	3453.0	1857.3	1605.0	1616.7	1570.0	1495.2	1455.5	1432.1	1439.2
40°	5289.4	4653.9	3450.7	1532.6	1446.2	1448.5	1413.5	1322.3	1224.2	1165.8	1179.8
42.5°	5712.2	4999.7	3390.0	1359.7	1317.7	1310.7	1282.6	1158.8	1077.0	1030.3	1032.6
45°	6051.0	5357.1	3296.5	1256.9	1200.9	1212.5	1149.5	1074.7	999.9	957.9	955.5
47.5°	6389.7	5628.1	3147.0	1193.8	1114.4	1093.4	1067.7	1016.3	960.2	913.5	915.8
50°	6698.1	5859.4	3006.8	1151.8	1035.0	981.2	985.9	955.5	906.5	864.4	862.1
52.5°	6915.4	6011.3	2929.7	1128.4	939.2	880.8	897.1	880.8	834.1	803.7	801.3
55°	7132.7	6128.1	2955.4	1098.1	834.1	787.3	815.4	810.7	785.0	775.6	778.0
57.5°	7307.9	6216.9	3046.5	1042.0	733.6	705.6	752.3	738.3	719.6	721.9	721.9
60°	7478.5	6331.3	3154.0	913.5	647.2	649.5	693.9	668.2	656.5	677.5	679.9
62.5°	7656.0	6455.2	3065.2	726.6	572.4	588.7	640.1	619.1	623.8	654.2	663.5
65°	7635.0	6443.5	2497.5	595.8	507.0	539.7	616.8	609.8	612.1	623.8	628.5
67.5°	7205.1	6032.3	1717.2	507.0	460.2	500.0	598.1	570.1	572.4	565.4	567.7
68°	7060.3	5887.4	1513.9	493.0	450.9	490.6	588.7	563.0	565.4	558.4	556.0
70°	6270.6	5041.7	957.9	434.5	418.2	464.9	542.0	532.7	530.3	525.7	525.7
72.5°	4780.0	3721.7	504.6	376.1	380.8	425.2	483.6	502.3	490.6	493.0	507.0
75°	3165.7	2238.2	350.4	322.4	334.1	364.5	429.9	467.3	455.6	462.6	455.6
77.5°	1675.1	1205.5	280.4	273.3	273.3	294.4	355.1	413.5	413.5	408.9	401.8
80°	549.0	425.2	224.3	214.9	219.6	231.3	285.0	338.8	345.8	336.4	331.8
82.5°	184.6	196.2	168.2	156.5	161.2	170.5	214.9	259.3	261.7	243.0	238.3
85°	114.5	130.8	105.1	102.8	102.8	105.1	130.8	142.5	130.8	116.8	121.5
87.5°	53.7	65.4	49.1	42.1	35.0	30.4	23.4	9.3	9.3	4.7	4.7
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)