

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: P1210487

Luminaire Tested: **ARCH3-140-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210487
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: ARCH3-140-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17350 lumens
Efficiency: N/A
Efficacy: 121.8 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): 142.5
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



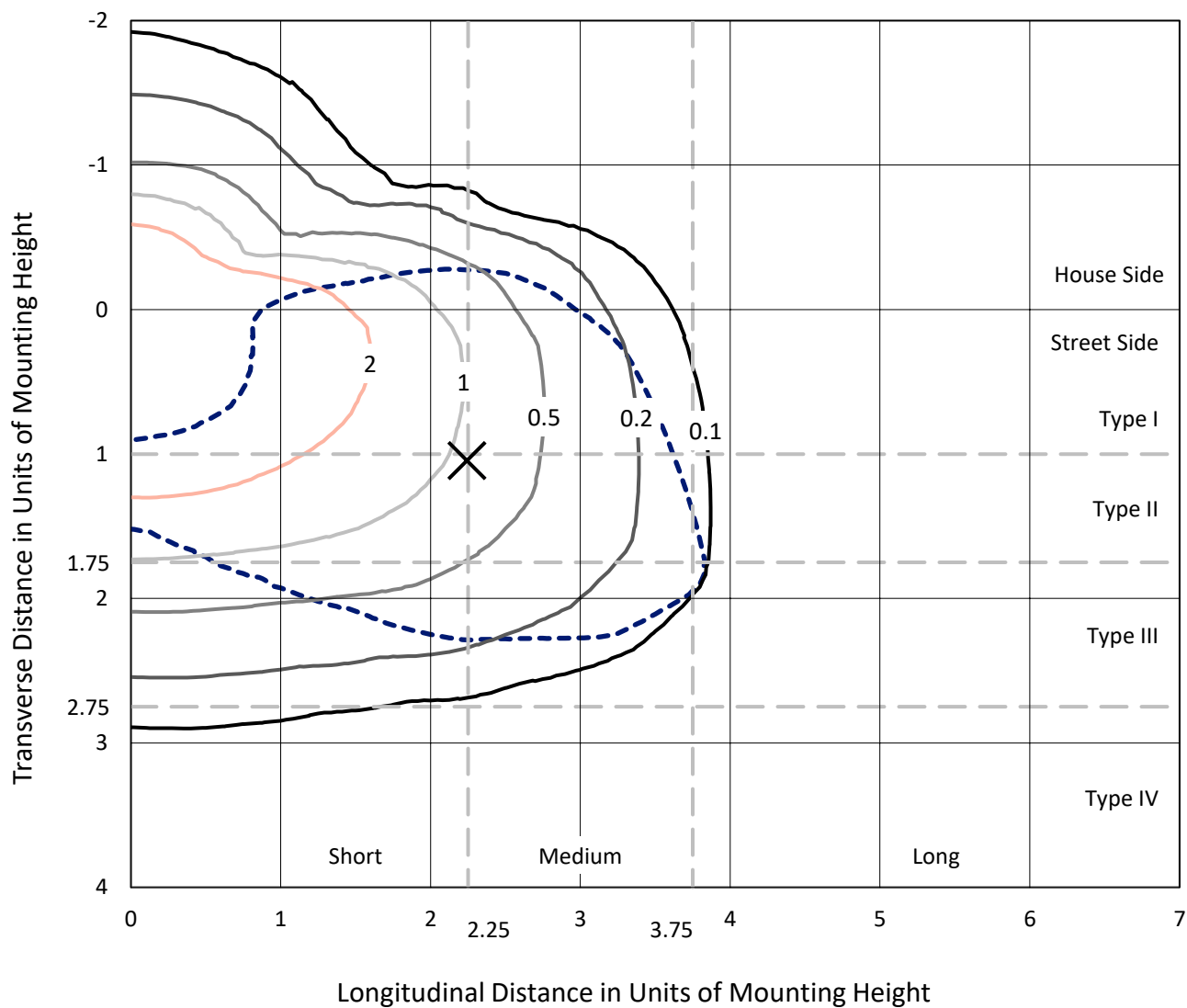
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



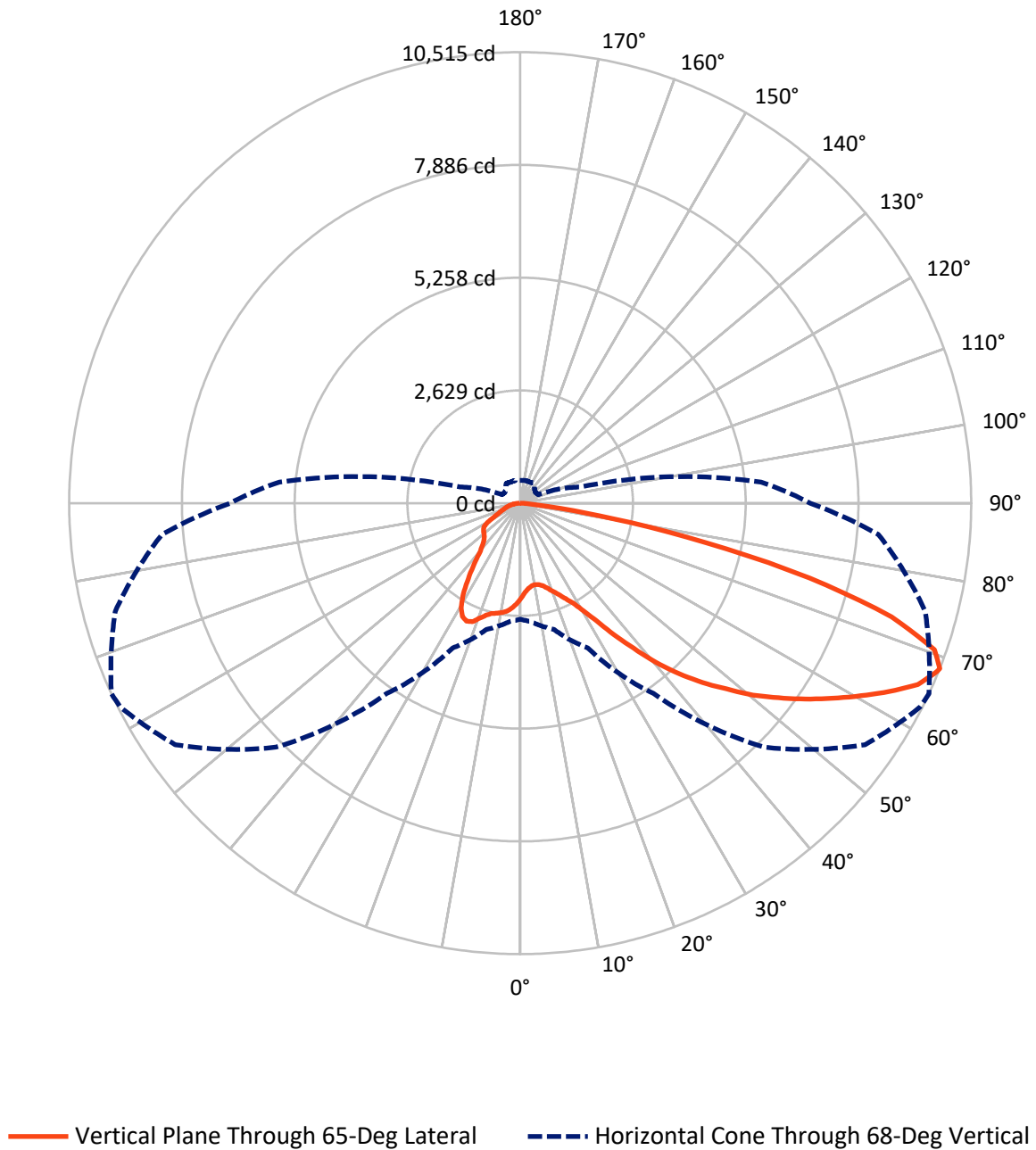
Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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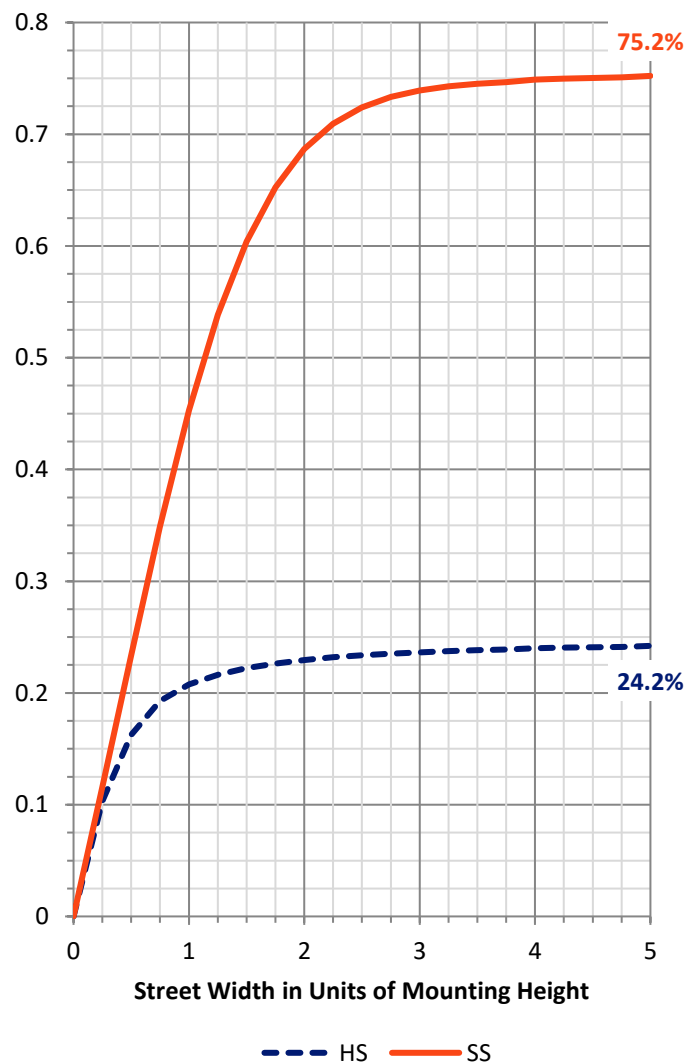
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4253.7	0.0	4253.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	13096.3	0.0	13096.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	17350.0	0.0	17350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	1.2
10°-20°	689.9	4.0
20°-30°	1248.7	7.2
30°-40°	1964.3	11.3
40°-50°	2925.6	16.9
50°-60°	3837.8	22.1
60°-70°	4196.9	24.2
70°-80°	2076.7	12.0
80°-90°	198.1	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°	17350.0	100.0
0°-180°	17350.0	100.0

Coefficient of Utilization



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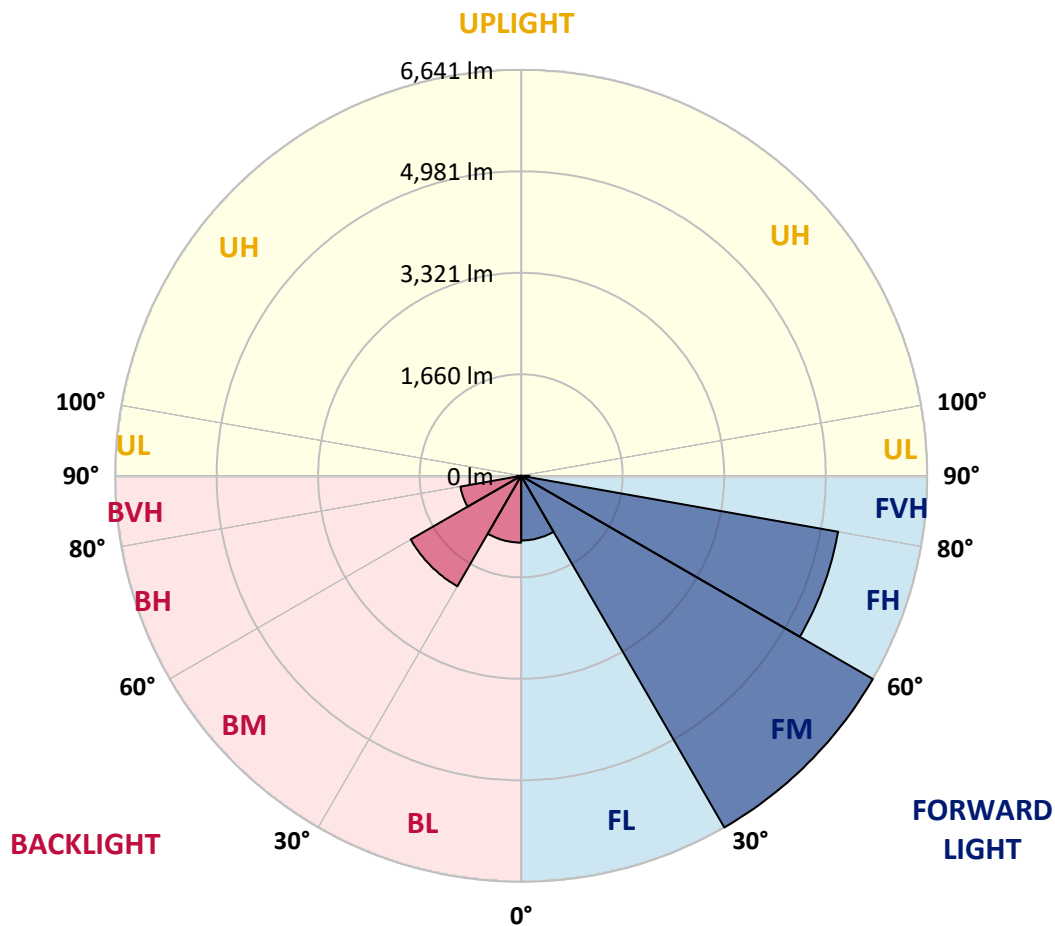
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1057.7	6.1			
FM	(30°-60°)	6641.3	38.3			
FH	(60°-80°)	5264.0	30.3			G3/7500
FVH	(80°-90°)	133.2	0.8			G2/225
BL	(0°-30°)	1092.8	6.3	B3/2500		
BM	(30°-60°)	2086.4	12.0	B2/2500		
BH	(60°-80°)	1009.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	64.9	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°	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1
2.5°	1935.2	1930.8	1941.9	1953.1	1977.7	2006.8	2047.1	2080.6	2085.1	2147.8	2197.0
5°	1821.1	1814.4	1825.6	1839.0	1850.2	1886.0	1928.5	1977.7	1997.9	2089.6	2194.7
7.5°	1832.3	1830.1	1834.5	1830.1	1830.1	1845.7	1874.8	1924.0	1946.4	2056.0	2205.9
10°	1897.2	1901.7	1903.9	1890.5	1877.1	1870.3	1879.3	1912.9	1928.5	2058.3	2255.2
12.5°	2004.6	2011.3	2013.5	1988.9	1971.0	1941.9	1926.3	1939.7	1950.9	2080.6	2324.5
15°	2150.0	2154.5	2138.8	2123.2	2078.4	2042.6	2004.6	1993.4	1997.9	2127.6	2402.8
17.5°	2320.0	2313.3	2313.3	2275.3	2217.1	2161.2	2098.5	2089.6	2089.6	2203.7	2514.7
20°	2505.7	2512.4	2492.3	2440.8	2382.7	2295.4	2232.8	2192.5	2197.0	2290.9	2651.1
22.5°	2774.2	2785.4	2731.7	2657.9	2568.4	2467.7	2378.2	2313.3	2315.6	2405.0	2792.1
25°	3062.8	3067.3	3033.7	2935.3	2814.5	2671.3	2552.7	2469.9	2467.7	2532.6	2973.3
27.5°	3358.1	3378.3	3311.1	3217.2	3105.3	2926.3	2769.7	2657.9	2640.0	2727.2	3199.3
30°	3662.4	3687.0	3622.1	3530.4	3391.7	3239.5	3053.9	2924.1	2912.9	3029.2	3501.3
32.5°	3968.9	3975.6	3924.1	3848.1	3722.8	3579.6	3429.7	3286.5	3275.3	3465.5	3892.8
35°	4219.5	4239.6	4203.8	4185.9	4094.2	3962.2	3816.8	3734.0	3763.1	4006.9	4400.7
37.5°	4521.5	4541.6	4501.4	4496.9	4467.8	4353.7	4253.0	4259.7	4288.8	4619.9	4935.4
40°	4957.8	4980.1	4877.2	4832.5	4832.5	4720.6	4687.0	4845.9	4883.9	5224.0	5492.5
42.5°	5326.9	5362.7	5302.3	5273.2	5186.0	5107.7	5147.9	5371.6	5436.5	5801.2	5977.9
45°	5505.9	5532.7	5604.3	5689.3	5604.3	5467.8	5620.0	5872.8	5964.5	6333.7	6463.4
47.5°	5602.1	5626.7	5709.5	5937.7	5995.8	5881.7	6096.5	6412.0	6474.6	6861.7	6926.5
50°	5615.5	5693.8	5801.2	6029.4	6295.6	6311.3	6575.3	6960.1	7033.9	7380.7	7333.7
52.5°	5505.9	5537.2	5758.7	6143.5	6438.8	6707.3	7096.6	7485.9	7539.5	7868.4	7693.9
55°	5326.9	5371.6	5593.1	6116.7	6577.5	7083.1	7626.8	8002.7	8063.1	8342.7	8027.3
57.5°	5165.8	5188.2	5425.3	6038.3	6716.2	7459.0	8098.9	8541.8	8582.1	8758.9	8273.4
60°	4986.8	5011.4	5248.6	5870.6	6819.2	7743.1	8591.1	9085.5	9121.3	9197.4	8559.7
62.5°	4523.7	4588.6	4886.2	5593.1	6792.3	8067.5	9116.8	9622.4	9667.2	9584.4	8785.7
65°	3673.6	3765.3	4130.0	4964.5	6541.7	8277.8	9546.4	10116.9	10192.9	9875.2	8846.1
67.5°	2852.5	2917.4	3210.5	3939.8	5662.5	8172.7	9823.8	10456.9	10479.3	9828.3	8510.5
68°	2704.8	2769.7	3049.4	3725.0	5418.6	8047.4	9817.1	10465.9	10515.1	9776.8	8380.8
70°	2069.5	2143.3	2409.5	2950.9	4367.1	7250.9	9407.7	10251.1	10244.4	9154.8	7575.3
72.5°	1293.1	1335.6	1519.1	1861.4	2888.3	5517.1	7984.8	9040.7	9058.6	7463.5	5810.1
75°	821.1	821.1	812.1	901.6	1481.1	3143.3	5935.4	6960.1	6973.5	5226.2	3662.4
77.5°	713.7	693.5	597.3	505.6	590.6	1221.5	3512.5	4494.6	4420.8	2814.5	1738.3
80°	601.8	568.3	490.0	407.2	380.3	382.6	1349.1	2282.0	2183.6	1013.5	577.2
82.5°	434.0	404.9	369.1	319.9	293.1	228.2	281.9	660.0	644.3	293.1	187.9
85°	234.9	212.5	208.1	210.3	176.7	140.9	118.6	145.4	145.4	127.5	107.4
87.5°	82.8	60.4	71.6	80.5	69.4	58.2	47.0	55.9	58.2	55.9	51.5
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°	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1
2.5°	2226.1	2248.4	2302.1	2349.1	2382.7	2411.8	2427.4	2434.1	2449.8	2452.0	2447.6
5°	2244.0	2302.1	2382.7	2452.0	2490.1	2505.7	2510.2	2512.4	2505.7	2510.2	2505.7
7.5°	2290.9	2364.8	2478.9	2539.3	2546.0	2521.4	2523.6	2514.7	2523.6	2532.6	2532.6
10°	2362.5	2456.5	2563.9	2586.3	2557.2	2543.8	2570.6	2624.3	2642.2	2666.8	2666.8
12.5°	2456.5	2568.4	2644.4	2624.3	2597.5	2642.2	2720.5	2774.2	2792.1	2801.0	2794.3
15°	2563.9	2684.7	2722.7	2655.6	2704.8	2801.0	2827.9	2796.6	2751.8	2731.7	2742.9
17.5°	2700.4	2801.0	2778.7	2733.9	2845.8	2859.2	2772.0	2671.3	2599.7	2572.8	2590.7
20°	2843.6	2930.8	2827.9	2848.0	2917.4	2774.2	2608.6	2478.9	2416.2	2405.0	2422.9
22.5°	2995.7	3051.6	2877.1	2980.0	2877.1	2586.3	2387.2	2320.0	2304.4	2322.3	2337.9
25°	3168.0	3161.2	2962.1	3020.3	2727.2	2355.8	2237.3	2232.8	2232.8	2244.0	2266.3
27.5°	3362.6	3257.4	3047.1	2966.6	2467.7	2165.7	2143.3	2145.5	2138.8	2141.1	2152.2
30°	3588.6	3387.2	3141.1	2789.9	2176.8	2022.5	2013.5	2006.8	1991.2	1986.7	1991.2
32.5°	3872.7	3523.7	3237.3	2499.0	1921.8	1874.8	1870.3	1834.5	1796.5	1792.0	1807.7
35°	4232.9	3772.0	3286.5	2134.3	1711.5	1709.3	1693.6	1637.7	1588.5	1588.5	1577.3
37.5°	4644.5	4091.9	3306.7	1778.6	1537.0	1548.2	1503.4	1431.8	1393.8	1371.4	1378.1
40°	5065.1	4456.6	3304.4	1467.6	1384.9	1387.1	1353.5	1266.3	1172.3	1116.4	1129.8
42.5°	5470.1	4787.7	3246.3	1302.1	1261.8	1255.1	1228.3	1109.7	1031.4	986.6	988.9
45°	5794.5	5130.0	3156.8	1203.6	1149.9	1161.1	1100.7	1029.1	957.5	917.3	915.0
47.5°	6118.9	5389.5	3013.6	1143.2	1067.2	1047.0	1022.4	973.2	919.5	874.8	877.0
50°	6414.2	5611.0	2879.3	1103.0	991.1	939.6	944.1	915.0	868.1	827.8	825.5
52.5°	6622.3	5756.5	2805.5	1080.6	899.4	843.4	859.1	843.4	798.7	769.6	767.4
55°	6830.3	5868.3	2830.1	1051.5	798.7	754.0	780.8	776.3	751.7	742.8	745.0
57.5°	6998.1	5953.3	2917.4	997.8	702.5	675.7	720.4	707.0	689.1	691.3	691.3
60°	7161.5	6063.0	3020.3	874.8	619.7	622.0	664.5	639.9	628.7	648.8	651.0
62.5°	7331.5	6181.5	2935.3	695.8	548.1	563.8	613.0	592.9	597.3	626.4	635.4
65°	7311.3	6170.3	2391.6	570.5	485.5	516.8	590.6	583.9	586.2	597.3	601.8
67.5°	6899.7	5776.6	1644.4	485.5	440.7	478.8	572.7	545.9	548.1	541.4	543.7
68°	6761.0	5637.9	1449.7	472.1	431.8	469.8	563.8	539.2	541.4	534.7	532.5
70°	6004.8	4828.0	917.3	416.1	400.5	445.2	519.0	510.1	507.9	503.4	503.4
72.5°	4577.4	3563.9	483.2	360.2	364.7	407.2	463.1	481.0	469.8	472.1	485.5
75°	3031.5	2143.3	335.6	308.7	319.9	349.0	411.7	447.5	436.3	443.0	436.3
77.5°	1604.1	1154.4	268.5	261.8	261.8	281.9	340.1	396.0	396.0	391.5	384.8
80°	525.8	407.2	214.8	205.8	210.3	221.5	272.9	324.4	331.1	322.2	317.7
82.5°	176.7	187.9	161.1	149.9	154.4	163.3	205.8	248.3	250.6	232.7	228.2
85°	109.6	125.3	100.7	98.4	98.4	100.7	125.3	136.5	125.3	111.9	116.3
87.5°	51.5	62.6	47.0	40.3	33.6	29.1	22.4	8.9	8.9	4.5	4.5
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)