

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: P1210519

Luminaire Tested: **ARCH3-150-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210519
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: ARCH3-150-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18067 lumens
Efficiency: N/A
Efficacy: 119.9 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): 150.7
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



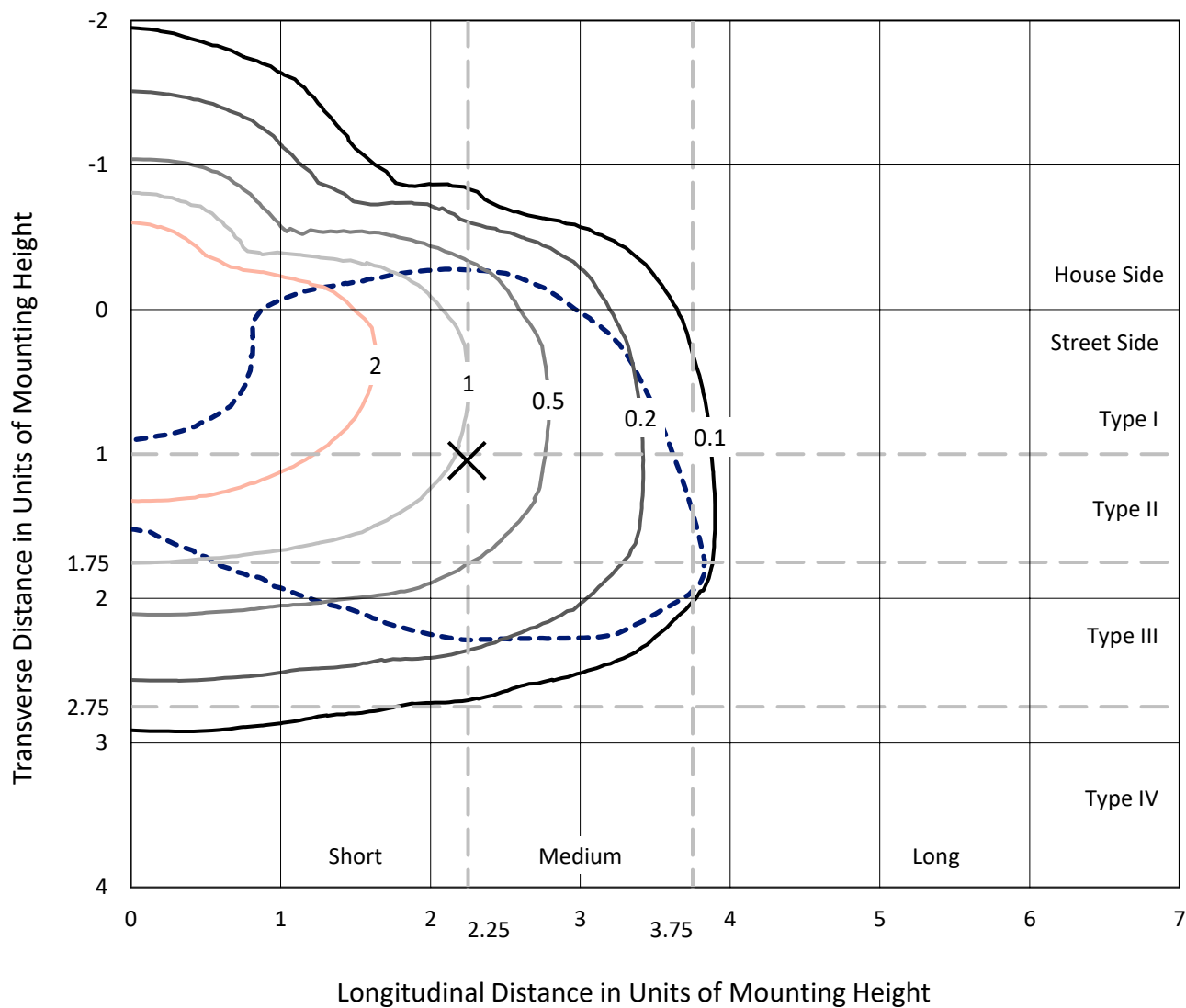
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



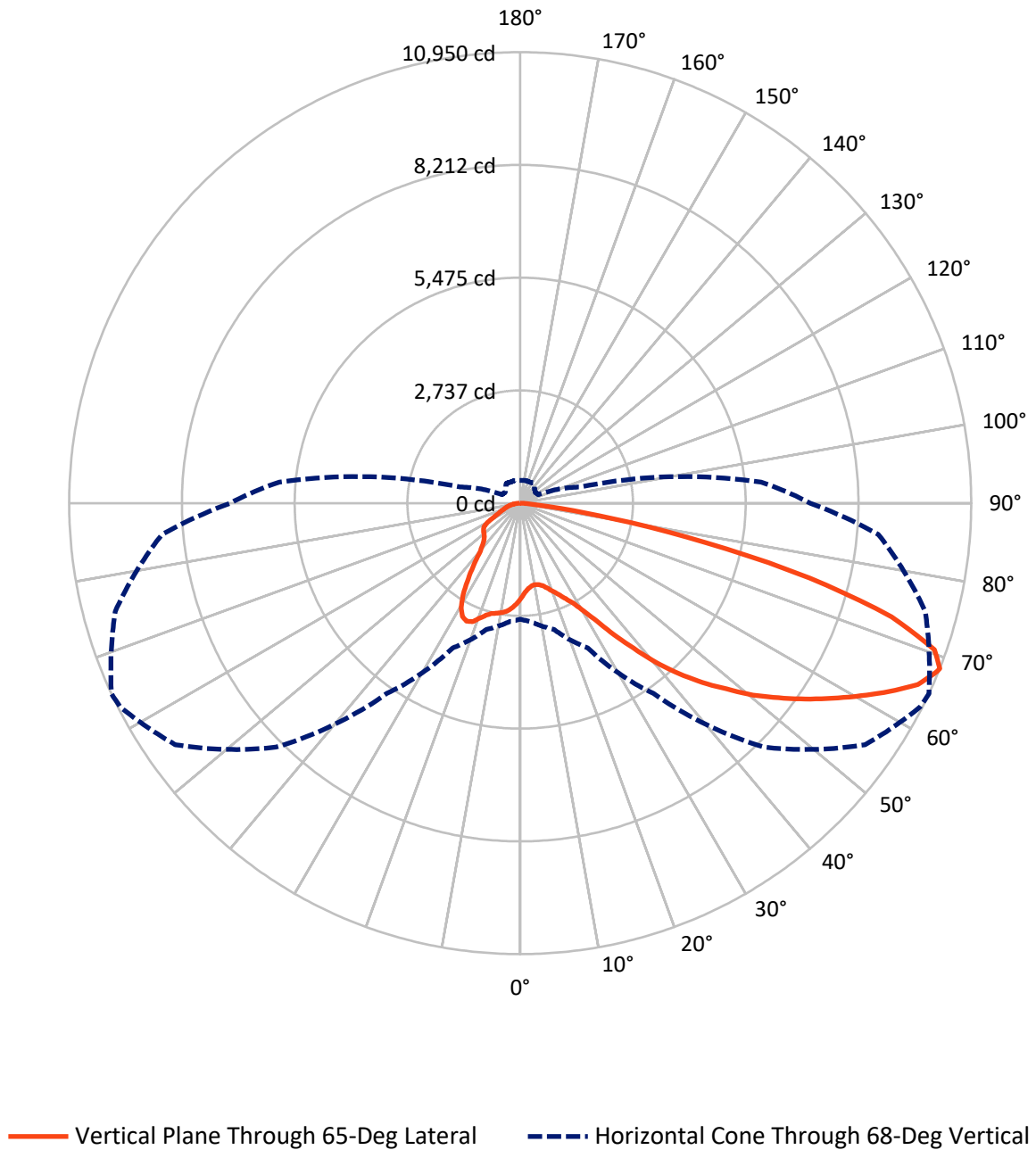
Based on 25 foot mounting height. Maximum calculated value = 4.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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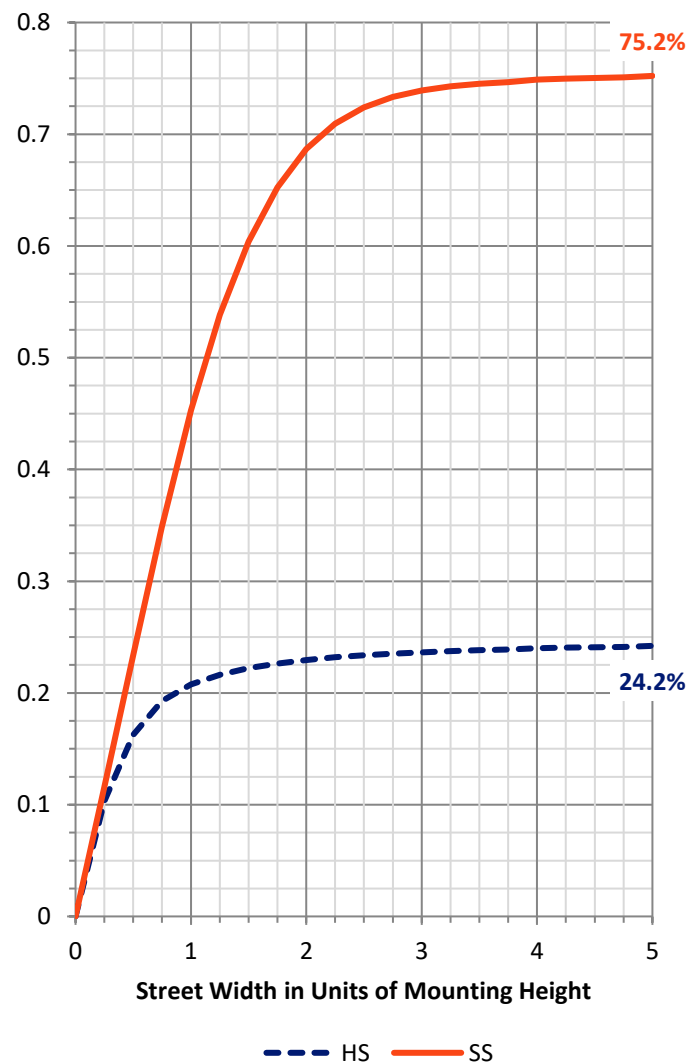
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4429.5	0.0	4429.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	13637.5	0.0	13637.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	18067.0	0.0	18067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.7	1.2
10°-20°	718.4	4.0
20°-30°	1300.3	7.2
30°-40°	2045.5	11.3
40°-50°	3046.5	16.9
50°-60°	3996.4	22.1
60°-70°	4370.3	24.2
70°-80°	2162.6	12.0
80°-90°	206.3	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°	18067.0	100.0
0°-180°	18067.0	100.0

Coefficient of Utilization



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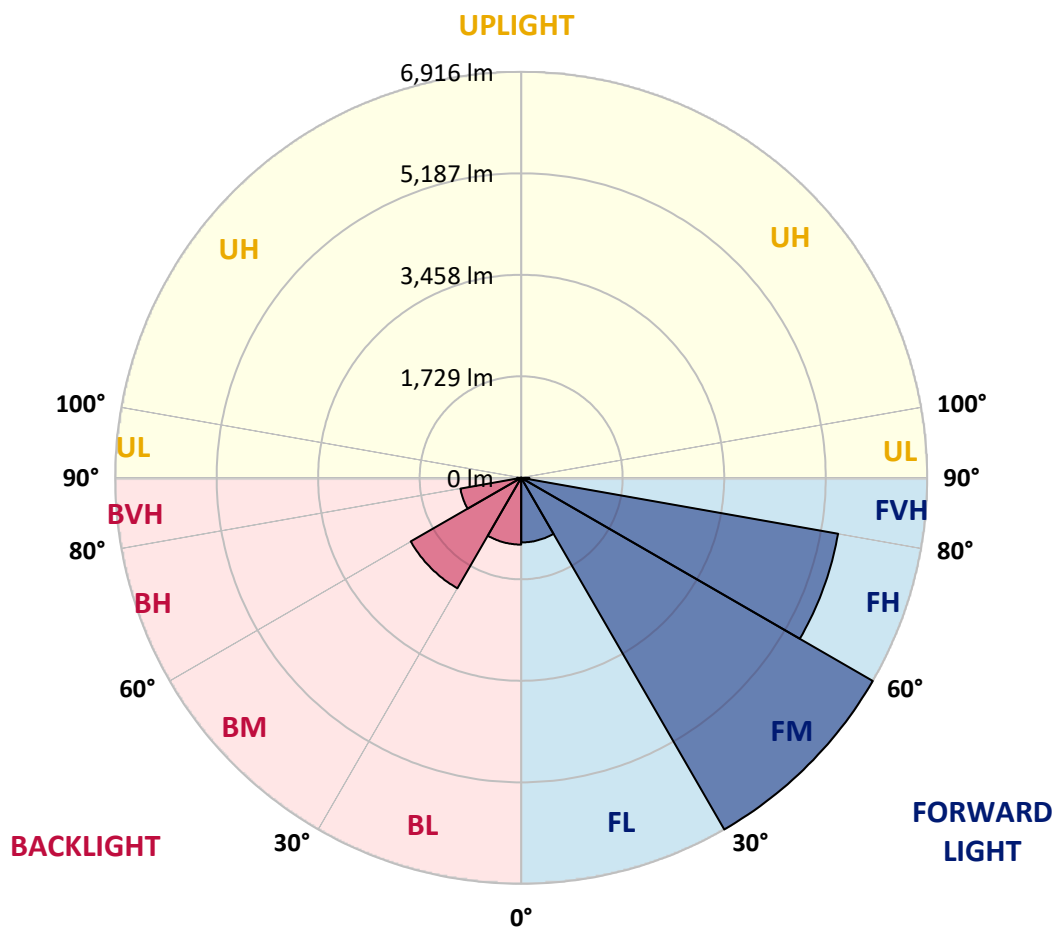
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1101.4	6.1			
FM	(30°-60°)	6915.8	38.3			
FH	(60°-80°)	5481.6	30.3			G3/7500
FVH	(80°-90°)	138.7	0.8			G2/225
BL	(0°-30°)	1138.0	6.3	B3/2500		
BM	(30°-60°)	2172.6	12.0	B2/2500		
BH	(60°-80°)	1051.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	67.5	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°	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7
2.5°	2015.2	2010.5	2022.2	2033.8	2059.5	2089.8	2131.7	2166.6	2171.3	2236.5	2287.8
5°	1896.4	1889.4	1901.0	1915.0	1926.7	1963.9	2008.2	2059.5	2080.4	2175.9	2285.4
7.5°	1908.0	1905.7	1910.4	1905.7	1905.7	1922.0	1952.3	2003.6	2026.8	2141.0	2297.1
10°	1975.6	1980.3	1982.6	1968.6	1954.6	1947.6	1957.0	1991.9	2008.2	2143.3	2348.3
12.5°	2087.4	2094.4	2096.7	2071.1	2052.5	2022.2	2005.9	2019.9	2031.5	2166.6	2420.6
15°	2238.9	2243.5	2227.2	2210.9	2164.3	2127.0	2087.4	2075.8	2080.4	2215.6	2502.1
17.5°	2415.9	2408.9	2408.9	2369.3	2308.7	2250.5	2185.3	2175.9	2175.9	2294.8	2618.6
20°	2609.3	2616.3	2595.3	2541.7	2481.1	2390.3	2325.1	2283.1	2287.8	2385.6	2760.7
22.5°	2888.8	2900.5	2844.6	2767.7	2674.5	2569.7	2476.5	2408.9	2411.3	2504.4	2907.5
25°	3189.4	3194.0	3159.1	3056.6	2930.8	2781.7	2658.2	2572.0	2569.7	2637.2	3096.2
27.5°	3496.9	3517.9	3448.0	3350.1	3233.6	3047.3	2884.2	2767.7	2749.1	2839.9	3331.5
30°	3813.7	3839.4	3771.8	3676.3	3531.8	3373.4	3180.1	3044.9	3033.3	3154.4	3646.0
32.5°	4132.9	4139.9	4086.3	4007.1	3876.6	3727.5	3571.4	3422.3	3410.7	3608.7	4053.7
35°	4393.8	4414.8	4377.5	4358.9	4263.4	4125.9	3974.5	3888.3	3918.6	4172.5	4582.5
37.5°	4708.3	4729.3	4687.4	4682.7	4652.4	4533.6	4428.8	4435.8	4466.1	4810.9	5139.3
40°	5162.6	5185.9	5078.8	5032.2	5032.2	4915.7	4880.7	5046.2	5085.8	5439.9	5719.4
42.5°	5547.0	5584.3	5521.4	5491.1	5400.3	5318.7	5360.7	5593.6	5661.2	6040.9	6225.0
45°	5733.4	5761.4	5835.9	5924.5	5835.9	5693.8	5852.2	6115.5	6211.0	6595.4	6730.5
47.5°	5833.6	5859.2	5945.4	6183.1	6243.6	6124.8	6348.5	6676.9	6742.2	7145.2	7212.8
50°	5847.6	5929.1	6040.9	6278.6	6555.8	6572.1	6847.0	7247.7	7324.6	7685.7	7636.8
52.5°	5733.4	5766.0	5996.7	6397.4	6704.9	6984.5	7389.8	7795.2	7851.1	8193.6	8011.9
55°	5547.0	5593.6	5824.3	6369.4	6849.3	7375.9	7942.0	8333.4	8396.3	8687.5	8359.0
57.5°	5379.3	5402.6	5649.5	6287.9	6993.8	7767.3	8433.6	8894.8	8936.8	9120.8	8615.3
60°	5192.9	5218.6	5465.5	6113.2	7101.0	8063.1	8946.1	9461.0	9498.2	9577.4	8913.5
62.5°	4710.7	4778.2	5088.1	5824.3	7073.0	8400.9	9493.6	10020.1	10066.7	9980.5	9148.8
65°	3825.4	3920.9	4300.6	5169.6	6812.1	8619.9	9940.9	10535.0	10614.2	10283.3	9211.7
67.5°	2970.4	3037.9	3343.1	4102.6	5896.5	8510.4	10229.8	10889.1	10912.4	10234.4	8862.2
68°	2816.6	2884.2	3175.4	3879.0	5642.6	8380.0	10222.8	10898.4	10949.6	10180.8	8727.1
70°	2155.0	2231.9	2509.1	3072.9	4547.6	7550.6	9796.4	10674.7	10667.7	9533.2	7888.4
72.5°	1346.6	1390.8	1581.9	1938.3	3007.7	5745.1	8314.7	9414.4	9433.0	7771.9	6050.3
75°	855.0	855.0	845.7	938.9	1542.3	3273.2	6180.7	7247.7	7261.7	5442.2	3813.7
77.5°	743.2	722.2	622.0	526.5	615.0	1272.0	3657.6	4680.4	4603.5	2930.8	1810.2
80°	626.7	591.7	510.2	424.0	396.1	398.4	1404.8	2376.3	2273.8	1055.4	601.1
82.5°	452.0	421.7	384.4	333.1	305.2	237.6	293.5	687.3	671.0	305.2	195.7
85°	244.6	221.3	216.7	219.0	184.0	146.8	123.5	151.4	151.4	132.8	111.8
87.5°	86.2	62.9	74.6	83.9	72.2	60.6	48.9	58.2	60.6	58.2	53.6
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°	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7
2.5°	2318.1	2341.4	2397.3	2446.2	2481.1	2511.4	2527.7	2534.7	2551.0	2553.4	2548.7
5°	2336.7	2397.3	2481.1	2553.4	2593.0	2609.3	2613.9	2616.3	2609.3	2613.9	2609.3
7.5°	2385.6	2462.5	2581.3	2644.2	2651.2	2625.6	2627.9	2618.6	2627.9	2637.2	2637.2
10°	2460.2	2558.0	2669.8	2693.1	2662.9	2648.9	2676.8	2732.8	2751.4	2777.0	2777.0
12.5°	2558.0	2674.5	2753.7	2732.8	2704.8	2751.4	2832.9	2888.8	2907.5	2916.8	2909.8
15°	2669.8	2795.7	2835.3	2765.4	2816.6	2916.8	2944.8	2912.1	2865.5	2844.6	2856.2
17.5°	2812.0	2916.8	2893.5	2846.9	2963.4	2977.4	2886.5	2781.7	2707.1	2679.2	2697.8
20°	2961.1	3051.9	2944.8	2965.7	3037.9	2888.8	2716.4	2581.3	2516.1	2504.4	2523.1
22.5°	3119.5	3177.7	2996.0	3103.2	2996.0	2693.1	2485.8	2415.9	2399.6	2418.2	2434.5
25°	3298.9	3291.9	3084.5	3145.1	2839.9	2453.2	2329.7	2325.1	2325.1	2336.7	2360.0
27.5°	3501.6	3392.1	3173.1	3089.2	2569.7	2255.2	2231.9	2234.2	2227.2	2229.5	2241.2
30°	3736.9	3527.2	3270.9	2905.1	2266.8	2106.1	2096.7	2089.8	2073.4	2068.8	2073.4
32.5°	4032.7	3669.3	3371.1	2602.3	2001.2	1952.3	1947.6	1910.4	1870.8	1866.1	1882.4
35°	4407.8	3927.9	3422.3	2222.5	1782.2	1779.9	1763.6	1705.3	1654.1	1654.1	1642.4
37.5°	4836.5	4261.0	3443.3	1852.1	1600.5	1612.2	1565.6	1491.0	1451.4	1428.1	1435.1
40°	5274.5	4640.8	3441.0	1528.3	1442.1	1444.4	1409.5	1318.6	1220.8	1162.5	1176.5
42.5°	5696.1	4985.6	3380.4	1355.9	1314.0	1307.0	1279.0	1155.5	1074.0	1027.4	1029.7
45°	6033.9	5342.0	3287.2	1253.4	1197.5	1209.1	1146.2	1071.7	997.1	955.2	952.9
47.5°	6371.8	5612.3	3138.1	1190.5	1111.3	1090.3	1064.7	1013.4	957.5	910.9	913.2
50°	6679.3	5842.9	2998.3	1148.5	1032.1	978.5	983.1	952.9	903.9	862.0	859.7
52.5°	6895.9	5994.3	2921.5	1125.3	936.5	878.3	894.6	878.3	831.7	801.4	799.1
55°	7112.6	6110.8	2947.1	1095.0	831.7	785.1	813.1	808.4	782.8	773.5	775.8
57.5°	7287.3	6199.4	3037.9	1039.1	731.5	703.6	750.2	736.2	717.6	719.9	719.9
60°	7457.4	6313.5	3145.1	910.9	645.3	647.7	691.9	666.3	654.6	675.6	677.9
62.5°	7634.5	6437.0	3056.6	724.5	570.8	587.1	638.3	617.4	622.0	652.3	661.6
65°	7613.5	6425.3	2490.5	594.1	505.5	538.2	615.0	608.1	610.4	622.0	626.7
67.5°	7184.8	6015.3	1712.3	505.5	459.0	498.6	596.4	568.4	570.8	563.8	566.1
68°	7040.4	5870.9	1509.7	491.6	449.6	489.2	587.1	561.5	563.8	556.8	554.5
70°	6252.9	5027.5	955.2	433.3	417.0	463.6	540.5	531.2	528.8	524.2	524.2
72.5°	4766.6	3711.2	503.2	375.1	379.7	424.0	482.3	500.9	489.2	491.6	505.5
75°	3156.8	2231.9	349.5	321.5	333.1	363.4	428.7	465.9	454.3	461.3	454.3
77.5°	1670.4	1202.1	279.6	272.6	272.6	293.5	354.1	412.4	412.4	407.7	400.7
80°	547.5	424.0	223.7	214.3	219.0	230.6	284.2	337.8	344.8	335.5	330.8
82.5°	184.0	195.7	167.7	156.1	160.8	170.1	214.3	258.6	260.9	242.3	237.6
85°	114.2	130.5	104.8	102.5	102.5	104.8	130.5	142.1	130.5	116.5	121.1
87.5°	53.6	65.2	48.9	41.9	34.9	30.3	23.3	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)