

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: P1211420

Luminaire Tested: **ARCH4-270-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26702 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 269
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

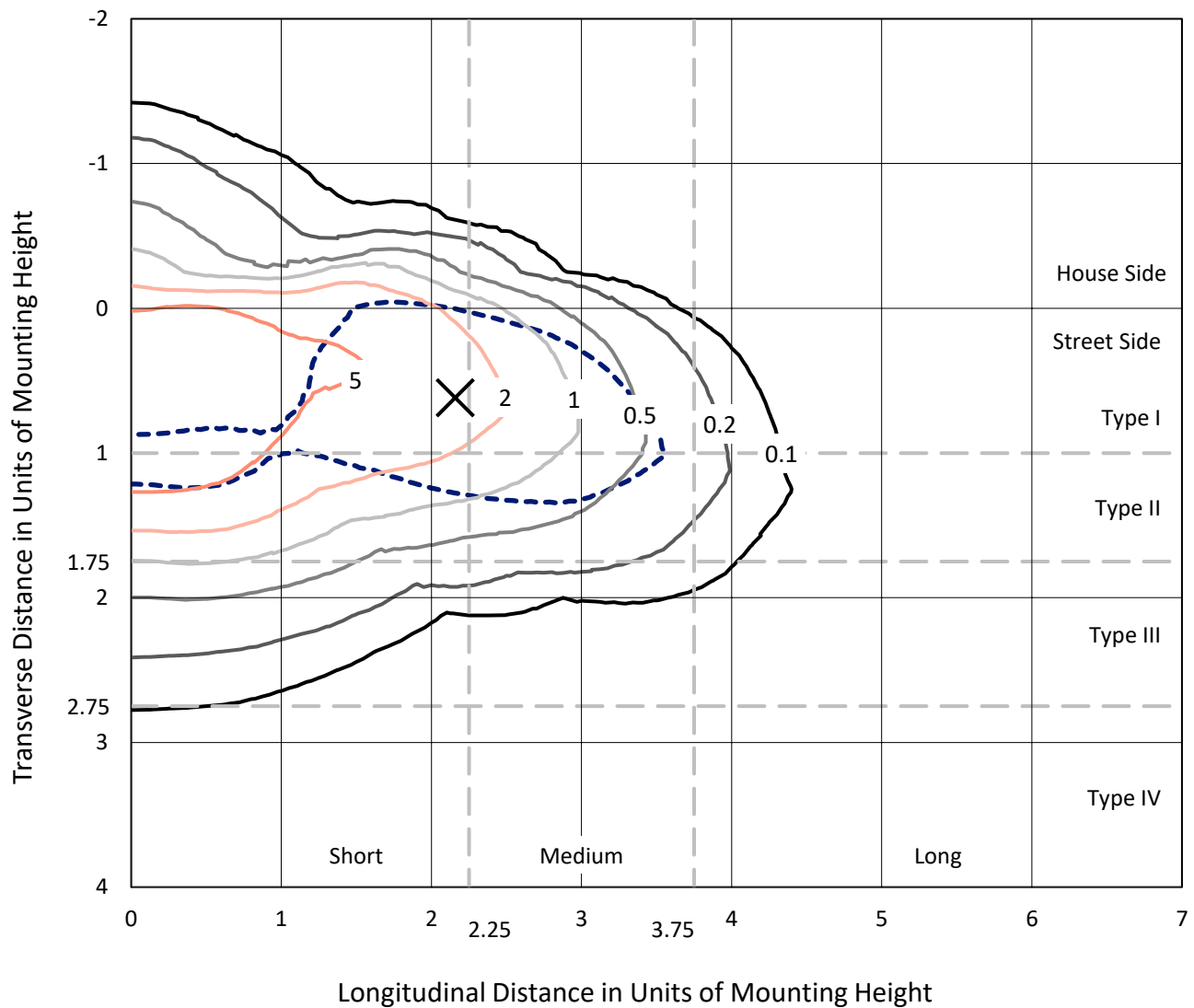


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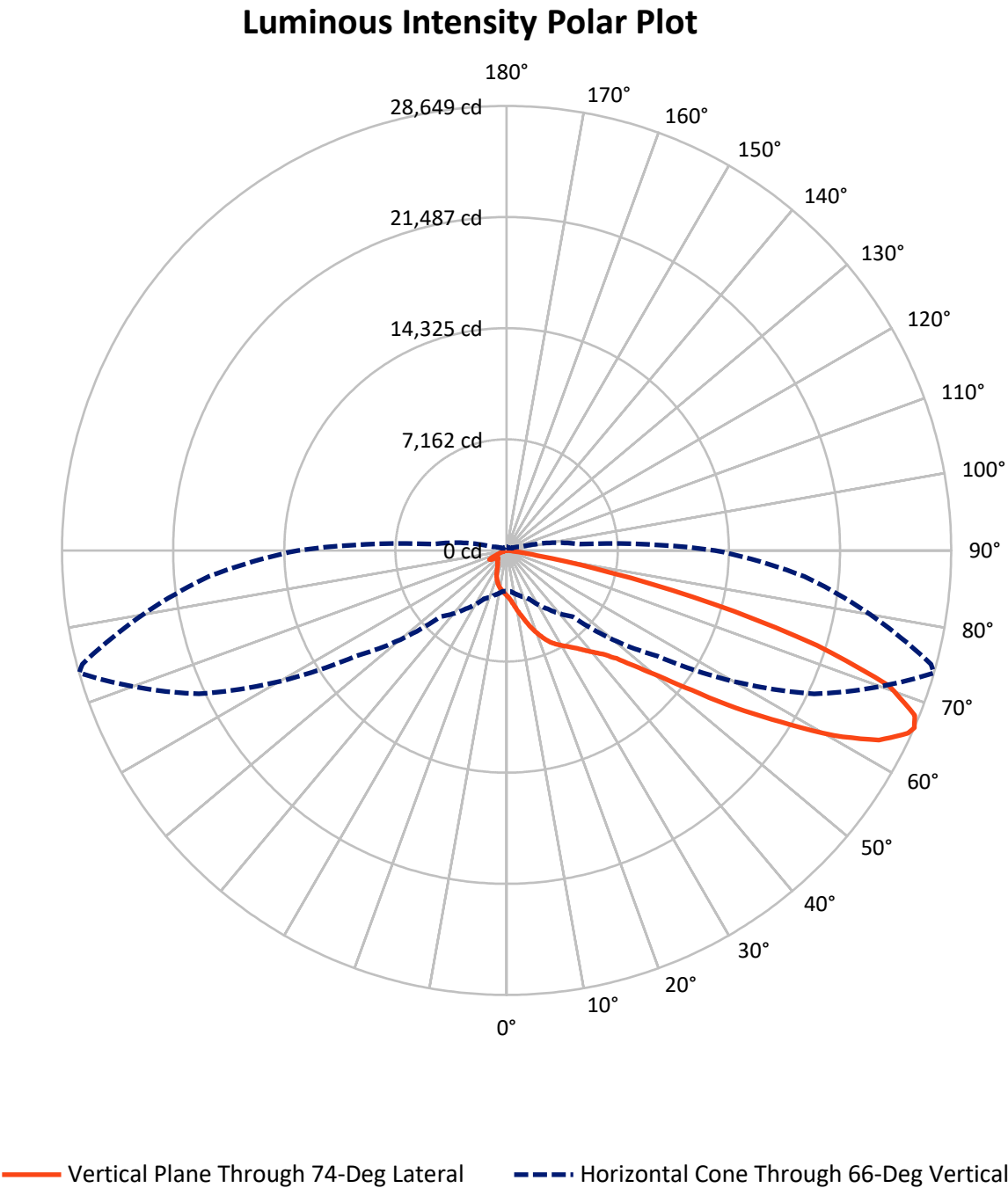
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Short - N/A

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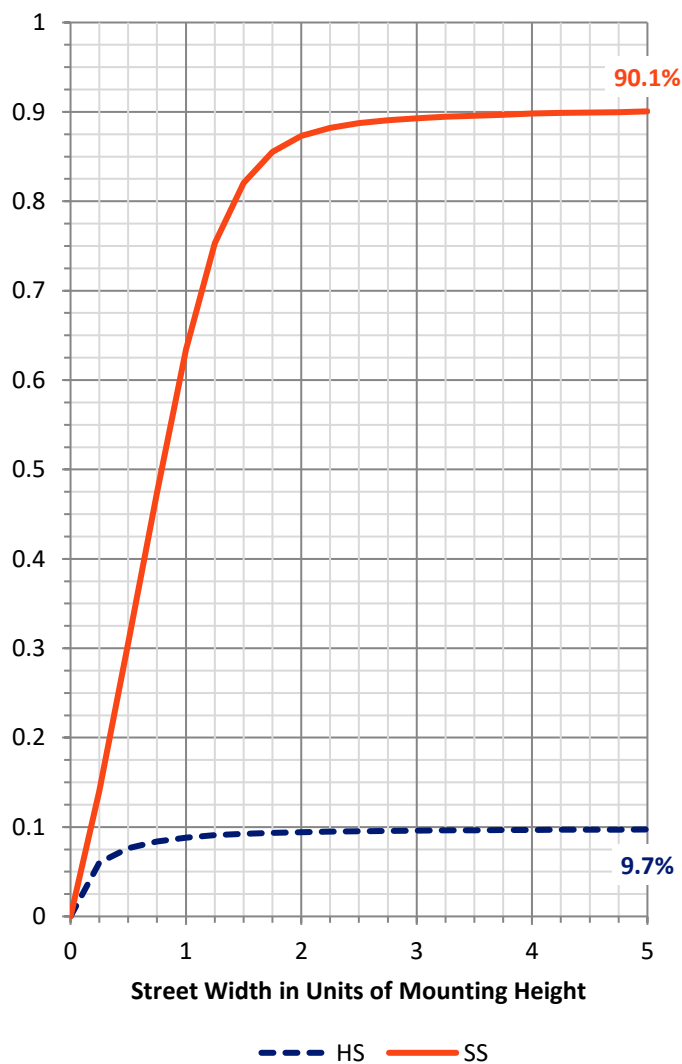
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2617.6	0.0	2617.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	24084.4	0.0	24084.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	26702.0	0.0	26702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.5	1.1
10°-20°	912.1	3.4
20°-30°	1740.6	6.5
30°-40°	3050.9	11.4
40°-50°	5231.4	19.6
50°-60°	6803.8	25.5
60°-70°	6159.2	23.1
70°-80°	2376.5	8.9
80°-90°	143.0	0.5
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°	26702.0	100.0
0°-180°	26702.0	100.0

Coefficient of Utilization



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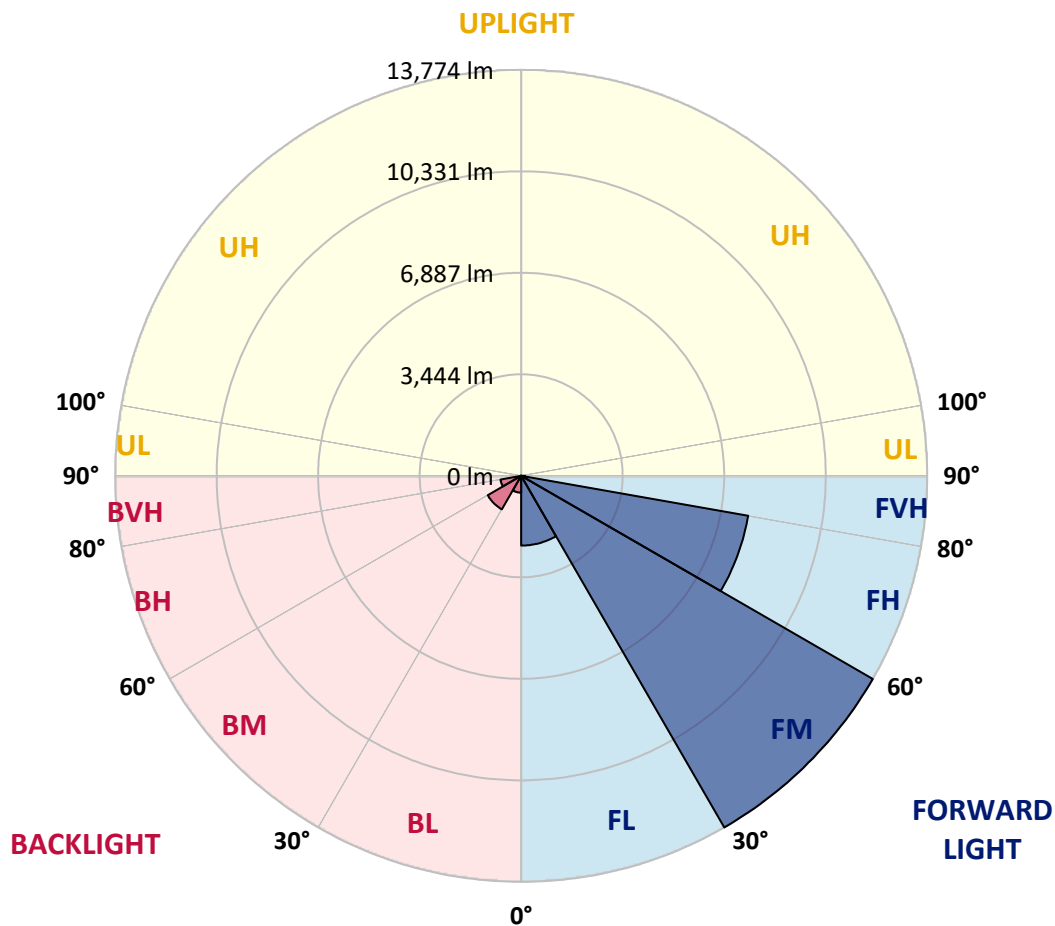
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2366.2	8.9			
FM	(30°-60°)	13774.2	51.6			
FH	(60°-80°)	7820.1	29.3			G4/12000
FVH	(80°-90°)	123.8	0.5			G2/225
BL	(0°-30°)	571.0	2.1	B2/1000		
BM	(30°-60°)	1311.9	4.9	B2/2500		
BH	(60°-80°)	715.6	2.7	B2/1000		G2/1000
BVH	(80°-90°)	19.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8
2.5°	3499.6	3470.9	3418.1	3413.3	3370.2	3317.5	3226.4	3130.5	3063.4	3053.8	2972.3
5°	4190.0	4175.6	4122.8	4089.3	4007.8	3883.1	3672.2	3461.3	3283.9	3264.7	3082.5
7.5°	4372.1	4381.7	4391.3	4424.9	4396.1	4338.6	4180.4	3883.1	3605.1	3561.9	3245.5
10°	4400.9	4391.3	4391.3	4434.5	4516.0	4597.4	4578.3	4324.2	3964.6	3911.9	3470.9
12.5°	4712.5	4726.9	4693.3	4674.2	4659.8	4702.9	4846.7	4736.5	4343.4	4300.2	3744.1
15°	5115.2	5110.4	5062.5	5062.5	5019.3	4947.4	5038.5	5120.0	4798.8	4746.1	4055.7
17.5°	5407.6	5426.8	5422.0	5450.8	5436.4	5340.5	5292.6	5460.4	5268.6	5201.5	4410.5
20°	5642.5	5695.3	5714.5	5805.5	5848.7	5781.6	5656.9	5762.4	5719.2	5656.9	4770.0
22.5°	5891.8	5935.0	5968.5	6126.7	6246.6	6232.2	6074.0	6050.0	6155.5	6098.0	5124.8
25°	6141.1	6160.3	6261.0	6452.7	6644.5	6692.4	6529.4	6342.5	6548.6	6495.9	5441.2
27.5°	6414.4	6424.0	6543.8	6778.7	7047.2	7147.9	7018.4	6673.3	6850.6	6850.6	5728.8
30°	6913.0	7008.8	7056.8	7267.7	7502.6	7641.6	7488.2	7023.2	7119.1	7162.2	6030.9
32.5°	7986.8	8001.2	7986.8	8077.9	8125.8	8207.3	8030.0	7416.3	7392.4	7440.3	6328.1
35°	9626.4	9568.8	9415.4	9281.2	9003.1	8849.7	8619.6	7919.7	7727.9	7795.0	6620.5
37.5°	11615.9	11534.4	11184.4	10772.1	10177.7	9564.0	9276.4	8533.3	8154.6	8240.9	6936.9
40°	13514.3	13461.6	13044.5	12536.3	11520.0	10470.1	9861.3	9051.1	8629.2	8662.8	7258.1
42.5°	15077.1	15067.6	14717.6	14185.5	12881.5	11448.1	10551.6	9559.2	9127.8	9180.5	7593.7
45°	16261.3	16170.2	15911.3	15527.8	14199.8	12464.4	11385.8	10331.1	9928.4	9990.7	8097.1
47.5°	16261.3	16275.6	16443.4	16405.1	15120.3	13418.4	12296.6	11304.3	11112.5	11170.0	8926.4
50°	14938.1	15072.3	15820.2	16448.2	15599.7	14161.5	13279.4	12521.9	12718.5	12804.8	10374.2
52.5°	12320.6	12545.9	13845.1	15278.5	15244.9	14535.4	14295.7	14070.4	14952.5	15105.9	12512.3
55°	9362.7	9511.3	11203.6	13087.6	13701.3	14228.6	15182.6	16035.9	17910.4	17876.8	14684.0
57.5°	6994.5	7133.5	8590.9	10681.0	11491.2	12900.7	15638.0	18284.3	20844.3	20973.8	16721.5
60°	5144.0	5249.4	6491.1	8207.3	9377.1	10868.0	15455.9	20499.2	24224.1	24075.5	18519.2
62.5°	3806.4	3864.0	4760.4	5877.4	7430.7	8854.5	14310.1	22014.1	26923.1	26621.1	19521.2
65°	2943.5	2962.7	3427.7	4022.2	5402.8	6884.2	12603.4	22244.2	28414.1	28092.9	19502.0
66°	2622.3	2636.7	2977.1	3437.3	4597.4	6026.1	11855.6	21875.0	28649.0	28308.6	19262.3
67.5°	2200.4	2190.9	2392.2	2694.2	3451.7	4650.2	10527.6	20796.4	28370.9	28198.3	18495.3
70°	1630.0	1634.8	1735.4	1807.3	2018.3	2574.4	7603.3	18039.8	26146.5	26136.9	16390.7
72.5°	1208.1	1222.5	1299.2	1313.6	1260.8	1395.1	4381.7	14348.5	20916.2	20921.0	12253.5
75°	906.1	930.0	954.0	963.6	915.7	882.1	1979.9	9655.1	13758.8	13658.1	6936.9
77.5°	690.3	699.9	719.1	704.7	695.1	608.8	824.6	4707.7	6793.1	6189.1	2248.4
80°	503.4	503.4	522.5	503.4	498.6	436.3	450.6	1510.1	1994.3	1658.7	484.2
82.5°	316.4	311.6	326.0	321.2	311.6	278.1	263.7	421.9	460.2	412.3	234.9
85°	177.4	172.6	167.8	163.0	148.6	124.6	143.8	158.2	210.9	215.7	167.8
87.5°	62.3	62.3	57.5	52.7	43.1	43.1	52.7	52.7	76.7	76.7	86.3
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°	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8
2.5°	2933.9	2881.2	2804.5	2703.8	2631.9	2560.0	2483.3	2440.1	2377.8	2363.4	2382.6
5°	2986.7	2890.8	2699.0	2488.1	2305.9	2142.9	1989.5	1898.4	1807.3	1773.8	1788.2
7.5°	3096.9	2933.9	2607.9	2267.6	1965.5	1721.0	1538.9	1433.4	1351.9	1318.4	1327.9
10°	3259.9	3010.6	2521.6	2018.3	1630.0	1371.1	1217.7	1150.6	1102.6	1083.4	1088.2
12.5°	3456.5	3120.9	2411.4	1769.0	1342.3	1117.0	1045.1	1030.7	1021.1	1011.5	1016.3
15°	3677.0	3216.8	2281.9	1524.5	1117.0	992.4	968.4	963.6	958.8	958.8	958.8
17.5°	3907.1	3303.1	2138.1	1294.4	973.2	915.7	901.3	901.3	901.3	906.1	906.1
20°	4122.8	3370.2	1970.3	1088.2	891.7	843.7	834.2	834.2	839.0	843.7	843.7
22.5°	4333.8	3398.9	1773.8	944.4	824.6	781.4	767.0	767.0	767.0	771.8	771.8
25°	4516.0	3398.9	1577.2	853.3	767.0	723.9	704.7	699.9	704.7	704.7	704.7
27.5°	4669.4	3384.6	1385.5	791.0	709.5	666.4	647.2	642.4	652.0	656.8	656.8
30°	4832.4	3365.4	1232.1	733.5	661.6	618.4	599.3	599.3	613.6	632.8	632.8
32.5°	4990.6	3379.8	1112.2	685.5	613.6	580.1	560.9	565.7	594.5	623.2	623.2
35°	5158.3	3408.5	1040.3	652.0	580.1	546.5	532.1	546.5	575.3	604.0	604.0
37.5°	5326.1	3442.1	997.2	623.2	551.3	517.8	508.2	527.3	560.9	589.7	594.5
40°	5503.5	3470.9	949.2	594.5	532.1	493.8	489.0	508.2	551.3	580.1	584.9
42.5°	5724.0	3528.4	891.7	570.5	513.0	465.0	469.8	484.2	527.3	570.5	575.3
45°	6155.5	3710.6	834.2	546.5	489.0	450.6	441.0	450.6	498.6	546.5	556.1
47.5°	6965.7	4122.8	771.8	522.5	465.0	441.0	402.7	412.3	455.4	508.2	513.0
50°	8518.9	5000.1	738.3	498.6	445.8	407.5	364.3	364.3	397.9	445.8	445.8
52.5°	10939.9	6572.6	757.5	479.4	421.9	373.9	330.8	326.0	345.2	378.7	378.7
55°	13552.6	8298.4	829.4	460.2	393.1	354.8	306.8	282.8	297.2	316.4	316.4
57.5°	15623.7	9166.1	1025.9	450.6	359.6	340.4	278.1	244.5	258.9	278.1	278.1
60°	16534.5	8658.0	1246.4	460.2	335.6	316.4	249.3	215.7	239.7	258.9	263.7
62.5°	15796.2	7128.7	1337.5	436.3	302.0	282.8	244.5	201.3	230.1	244.5	249.3
65°	14199.8	5417.2	1045.1	378.7	278.1	244.5	220.5	191.8	215.7	230.1	230.1
66°	13442.4	4722.1	891.7	350.0	268.5	230.1	210.9	191.8	210.9	220.5	225.3
67.5°	12267.9	3724.9	661.6	306.8	249.3	210.9	196.6	182.2	201.3	210.9	210.9
70°	9592.8	2219.6	397.9	239.7	215.7	187.0	177.4	167.8	182.2	187.0	187.0
72.5°	6006.9	1054.7	254.1	177.4	182.2	177.4	148.6	158.2	163.0	167.8	167.8
75°	2910.0	417.1	172.6	129.4	148.6	167.8	119.9	139.0	143.8	153.4	148.6
77.5°	810.2	201.3	110.3	95.9	129.4	129.4	91.1	110.3	129.4	163.0	148.6
80°	234.9	129.4	71.9	71.9	91.1	91.1	62.3	76.7	86.3	95.9	100.7
82.5°	163.0	86.3	47.9	52.7	52.7	57.5	38.4	38.4	47.9	47.9	52.7
85°	129.4	38.4	28.8	33.6	24.0	28.8	19.2	19.2	24.0	19.2	19.2
87.5°	52.7	19.2	19.2	19.2	14.4	14.4	9.6	4.8	4.8	4.8	4.8
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)