

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: P1211240

Luminaire Tested: **ARCH4-210-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211240
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: ARCH4-210-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA 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: 23634 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 213.1
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

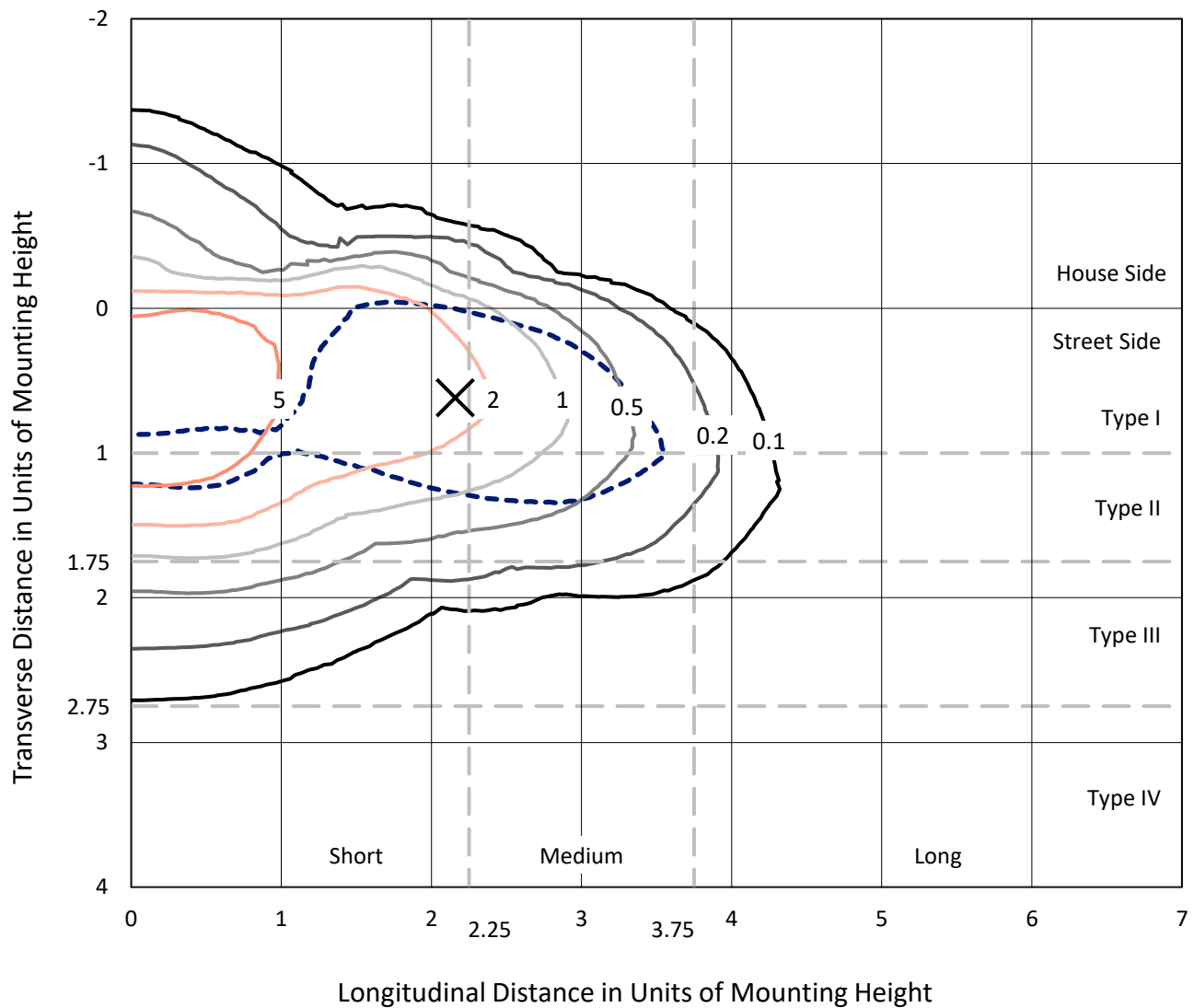


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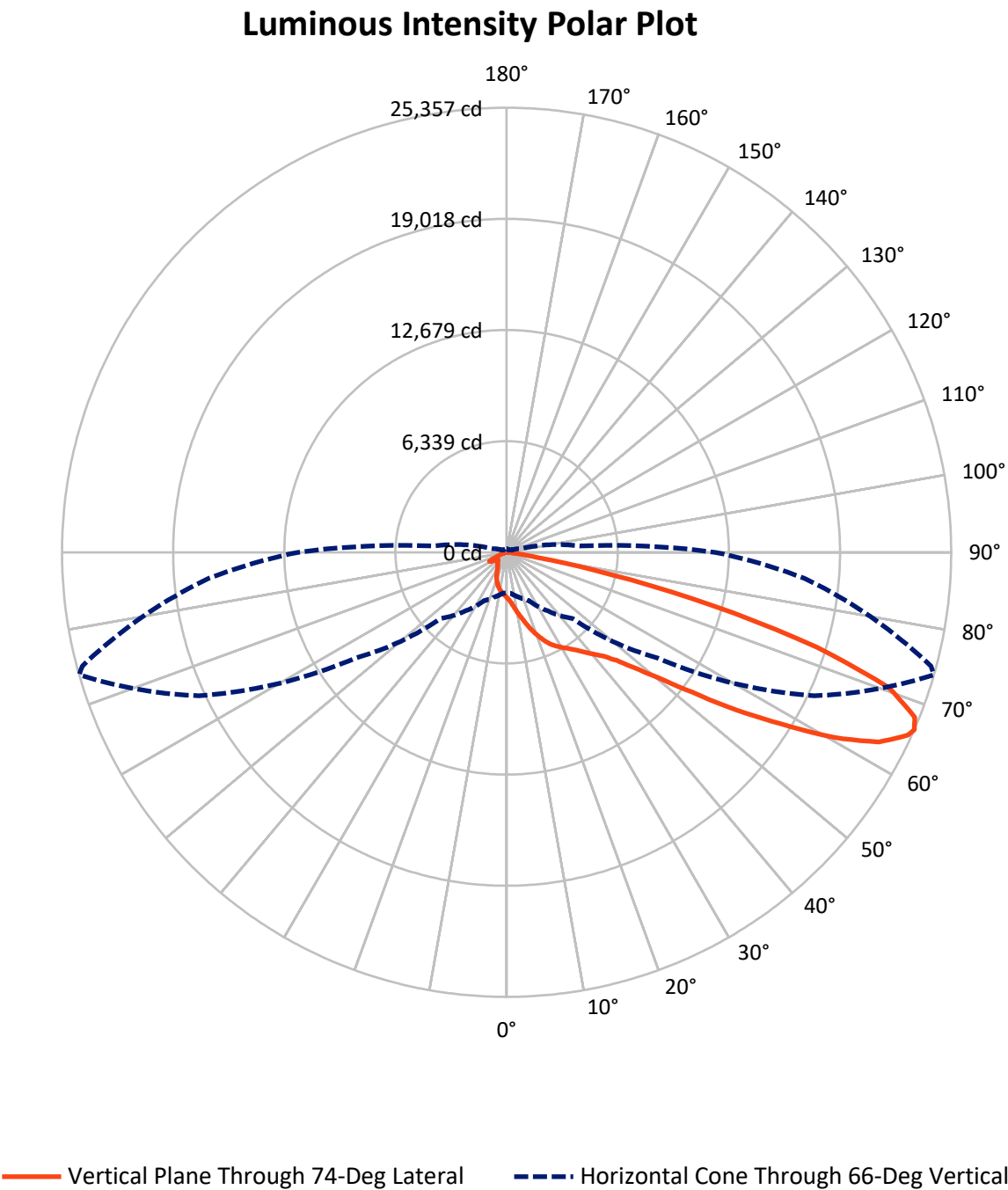
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Short - N/A

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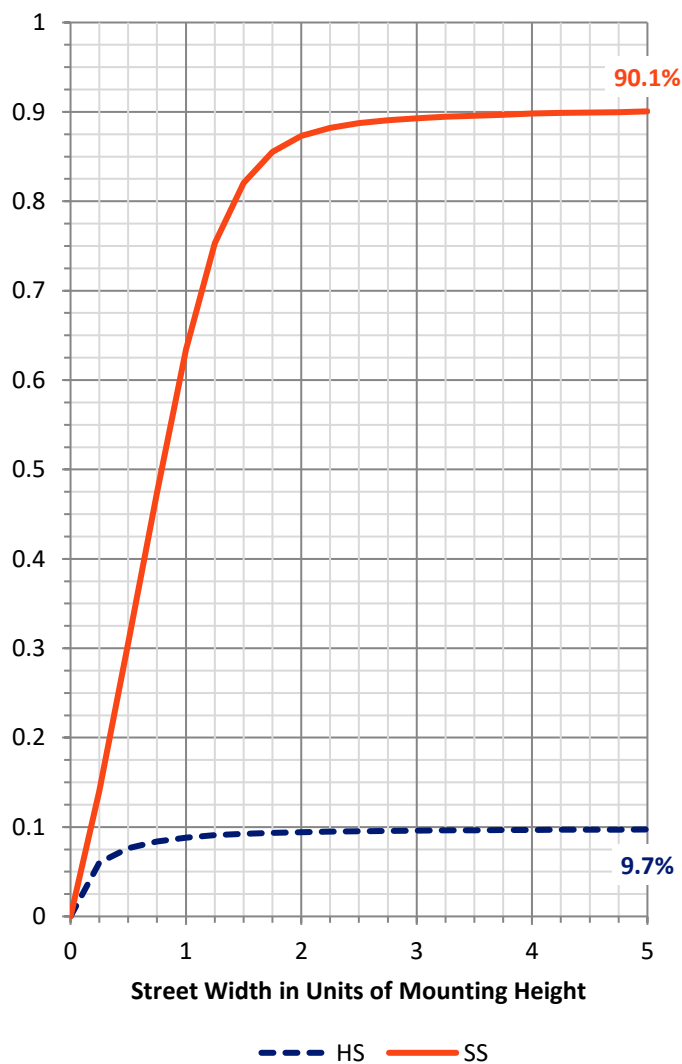
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2316.9	0.0	2316.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	21317.1	0.0	21317.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	23634.0	0.0	23634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	1.1
10°-20°	807.3	3.4
20°-30°	1540.6	6.5
30°-40°	2700.3	11.4
40°-50°	4630.3	19.6
50°-60°	6022.1	25.5
60°-70°	5451.5	23.1
70°-80°	2103.5	8.9
80°-90°	126.6	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°	23634.0	100.0
0°-180°	23634.0	100.0

Coefficient of Utilization



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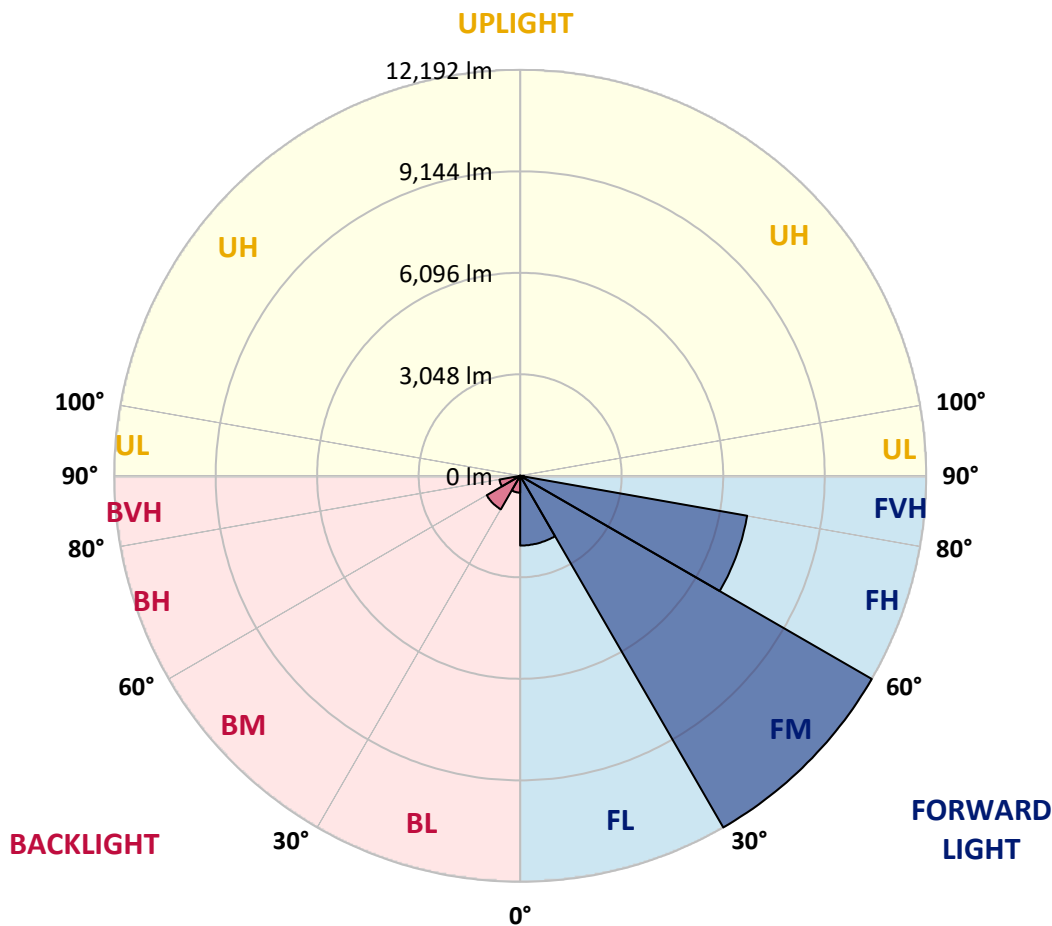
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2094.3	8.9			
FM	(30°-60°)	12191.6	51.6			
FH	(60°-80°)	6921.6	29.3			G3/7500
FVH	(80°-90°)	109.6	0.5			G2/225
BL	(0°-30°)	505.4	2.1	B2/1000		
BM	(30°-60°)	1161.1	4.9	B2/2500		
BH	(60°-80°)	633.4	2.7	B2/1000		G2/1000
BVH	(80°-90°)	17.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9
2.5°	3097.5	3072.1	3025.4	3021.1	2983.0	2936.3	2855.7	2770.8	2711.4	2702.9	2630.8
5°	3708.5	3695.8	3649.1	3619.4	3547.3	3437.0	3250.3	3063.6	2906.6	2889.6	2728.4
7.5°	3869.8	3878.3	3886.8	3916.5	3891.0	3840.1	3700.1	3437.0	3190.9	3152.7	2872.6
10°	3895.2	3886.8	3886.8	3924.9	3997.1	4069.2	4052.2	3827.4	3509.1	3462.4	3072.1
12.5°	4171.0	4183.8	4154.1	4137.1	4124.4	4162.6	4289.9	4192.3	3844.3	3806.1	3313.9
15°	4527.5	4523.2	4480.8	4480.8	4442.6	4379.0	4459.6	4531.7	4247.4	4200.8	3589.7
17.5°	4786.3	4803.3	4799.0	4824.5	4811.8	4726.9	4684.5	4833.0	4663.3	4603.9	3903.7
20°	4994.2	5040.9	5057.9	5138.5	5176.7	5117.3	5007.0	5100.3	5062.1	5007.0	4222.0
22.5°	5214.9	5253.1	5282.8	5422.8	5528.9	5516.1	5376.1	5354.9	5448.2	5397.3	4536.0
25°	5435.5	5452.5	5541.6	5711.3	5881.1	5923.5	5779.2	5613.7	5796.2	5749.5	4816.0
27.5°	5677.4	5685.9	5791.9	5999.9	6237.5	6326.6	6212.0	5906.5	6063.5	6063.5	5070.6
30°	6118.7	6203.5	6246.0	6432.7	6640.6	6763.6	6627.9	6216.3	6301.1	6339.3	5337.9
32.5°	7069.1	7081.9	7069.1	7149.8	7192.2	7264.3	7107.3	6564.2	6543.0	6585.4	5601.0
35°	8520.3	8469.4	8333.6	8214.8	7968.7	7832.9	7629.2	7009.7	6840.0	6899.4	5859.8
37.5°	10281.2	10209.1	9899.3	9534.4	9008.3	8465.2	8210.6	7552.9	7217.7	7294.0	6139.9
40°	11961.5	11914.9	11545.7	11095.9	10196.4	9267.1	8728.2	8011.1	7637.7	7667.4	6424.2
42.5°	13344.8	13336.3	13026.6	12555.6	11401.4	10132.7	9339.2	8460.9	8079.0	8125.7	6721.2
45°	14392.9	14312.3	14083.1	13743.7	12568.3	11032.3	10077.6	9144.1	8787.6	8842.8	7166.7
47.5°	14392.9	14405.6	14554.1	14520.2	13383.0	11876.7	10883.8	10005.4	9835.7	9886.6	7900.8
50°	13221.8	13340.6	14002.5	14558.4	13807.3	12534.4	11753.6	11083.2	11257.2	11333.5	9182.2
52.5°	10905.0	11104.4	12254.3	13523.0	13493.3	12865.3	12653.2	12453.7	13234.5	13370.3	11074.7
55°	8286.9	8418.5	9916.3	11583.9	12127.0	12593.8	13438.2	14193.4	15852.5	15822.8	12996.9
57.5°	6190.8	6313.9	7603.8	9453.8	10170.9	11418.4	13841.3	16183.5	18449.4	18563.9	14800.2
60°	4552.9	4646.3	5745.3	7264.3	8299.7	9619.3	13680.0	18143.9	21440.8	21309.3	16391.4
62.5°	3369.1	3420.0	4213.5	5202.1	6576.9	7837.2	12665.9	19484.7	23829.7	23562.4	17278.2
65°	2605.3	2622.3	3033.9	3560.0	4782.1	6093.2	11155.3	19688.4	25149.3	24865.1	17261.3
66°	2321.0	2333.8	2635.0	3042.4	4069.2	5333.7	10493.4	19361.6	25357.3	25056.0	17049.1
67.5°	1947.6	1939.1	2117.3	2384.7	3055.1	4115.9	9318.0	18406.9	25111.2	24958.4	16370.2
70°	1442.7	1446.9	1536.0	1599.7	1786.4	2278.6	6729.7	15967.1	23142.3	23133.8	14507.4
72.5°	1069.3	1082.0	1149.9	1162.6	1116.0	1234.8	3878.3	12699.8	18513.0	18517.3	10845.6
75°	802.0	823.2	844.4	852.9	810.4	780.7	1752.4	8545.8	12177.9	12088.8	6139.9
77.5°	611.0	619.5	636.5	623.7	615.3	538.9	729.8	4166.8	6012.6	5477.9	1990.1
80°	445.5	445.5	462.5	445.5	441.3	386.1	398.9	1336.6	1765.2	1468.1	428.6
82.5°	280.1	275.8	288.5	284.3	275.8	246.1	233.4	373.4	407.3	364.9	207.9
85°	157.0	152.8	148.5	144.3	131.5	110.3	127.3	140.0	186.7	190.9	148.5
87.5°	55.2	55.2	50.9	46.7	38.2	38.2	46.7	46.7	67.9	67.9	76.4
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°	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9	2579.9
2.5°	2596.8	2550.2	2482.3	2393.2	2329.5	2265.9	2198.0	2159.8	2104.6	2091.9	2108.9
5°	2643.5	2558.6	2388.9	2202.2	2041.0	1896.7	1760.9	1680.3	1599.7	1570.0	1582.7
7.5°	2741.1	2596.8	2308.3	2007.0	1739.7	1523.3	1362.1	1268.7	1196.6	1166.9	1175.4
10°	2885.4	2664.7	2231.9	1786.4	1442.7	1213.6	1077.8	1018.4	975.9	959.0	963.2
12.5°	3059.3	2762.3	2134.3	1565.7	1188.1	988.7	925.0	912.3	903.8	895.3	899.6
15°	3254.5	2847.2	2019.8	1349.3	988.7	878.3	857.1	852.9	848.6	848.6	848.6
17.5°	3458.2	2923.6	1892.5	1145.7	861.4	810.4	797.7	797.7	797.7	802.0	802.0
20°	3649.1	2983.0	1743.9	963.2	789.2	746.8	738.3	738.3	742.6	746.8	746.8
22.5°	3835.8	3008.4	1570.0	835.9	729.8	691.6	678.9	678.9	678.9	683.2	683.2
25°	3997.1	3008.4	1396.0	755.3	678.9	640.7	623.7	619.5	623.7	623.7	623.7
27.5°	4132.9	2995.7	1226.3	700.1	628.0	589.8	572.8	568.6	577.1	581.3	581.3
30°	4277.1	2978.7	1090.5	649.2	585.6	547.4	530.4	530.4	543.1	560.1	560.1
32.5°	4417.2	2991.4	984.4	606.8	543.1	513.4	496.5	500.7	526.2	551.6	551.6
35°	4565.7	3016.9	920.8	577.1	513.4	483.7	471.0	483.7	509.2	534.6	534.6
37.5°	4714.2	3046.6	882.6	551.6	488.0	458.3	449.8	466.8	496.5	521.9	526.2
40°	4871.2	3072.1	840.2	526.2	471.0	437.0	432.8	449.8	488.0	513.4	517.7
42.5°	5066.4	3123.0	789.2	504.9	454.0	411.6	415.8	428.6	466.8	504.9	509.2
45°	5448.2	3284.2	738.3	483.7	432.8	398.9	390.4	398.9	441.3	483.7	492.2
47.5°	6165.3	3649.1	683.2	462.5	411.6	390.4	356.4	364.9	403.1	449.8	454.0
50°	7540.1	4425.6	653.5	441.3	394.6	360.7	322.5	322.5	352.2	394.6	394.6
52.5°	9682.9	5817.4	670.4	424.3	373.4	331.0	292.8	288.5	305.5	335.2	335.2
55°	11995.5	7345.0	734.1	407.3	347.9	314.0	271.6	250.3	263.1	280.1	280.1
57.5°	13828.5	8113.0	908.0	398.9	318.2	301.3	246.1	216.4	229.1	246.1	246.1
60°	14634.7	7663.2	1103.2	407.3	297.0	280.1	220.6	190.9	212.2	229.1	233.4
62.5°	13981.3	6309.6	1183.8	386.1	267.3	250.3	216.4	178.2	203.7	216.4	220.6
65°	12568.3	4794.8	925.0	335.2	246.1	216.4	195.2	169.7	190.9	203.7	203.7
66°	11897.9	4179.5	789.2	309.8	237.6	203.7	186.7	169.7	186.7	195.2	199.4
67.5°	10858.3	3297.0	585.6	271.6	220.6	186.7	174.0	161.2	178.2	186.7	186.7
70°	8490.6	1964.6	352.2	212.2	190.9	165.5	157.0	148.5	161.2	165.5	165.5
72.5°	5316.7	933.5	224.9	157.0	161.2	157.0	131.5	140.0	144.3	148.5	148.5
75°	2575.6	369.2	152.8	114.6	131.5	148.5	106.1	123.1	127.3	135.8	131.5
77.5°	717.1	178.2	97.6	84.9	114.6	114.6	80.6	97.6	114.6	144.3	131.5
80°	207.9	114.6	63.6	63.6	80.6	80.6	55.2	67.9	76.4	84.9	89.1
82.5°	144.3	76.4	42.4	46.7	46.7	50.9	33.9	33.9	42.4	42.4	46.7
85°	114.6	33.9	25.5	29.7	21.2	25.5	17.0	17.0	21.2	17.0	17.0
87.5°	46.7	17.0	17.0	17.0	12.7	12.7	8.5	4.2	4.2	4.2	4.2
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)