

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: P1211516

Luminaire Tested: **ARCH4-300-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211516
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: ARCH4-300-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA 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: 29069 lumens
Efficiency: N/A
Efficacy: 97.2 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): 299.2
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

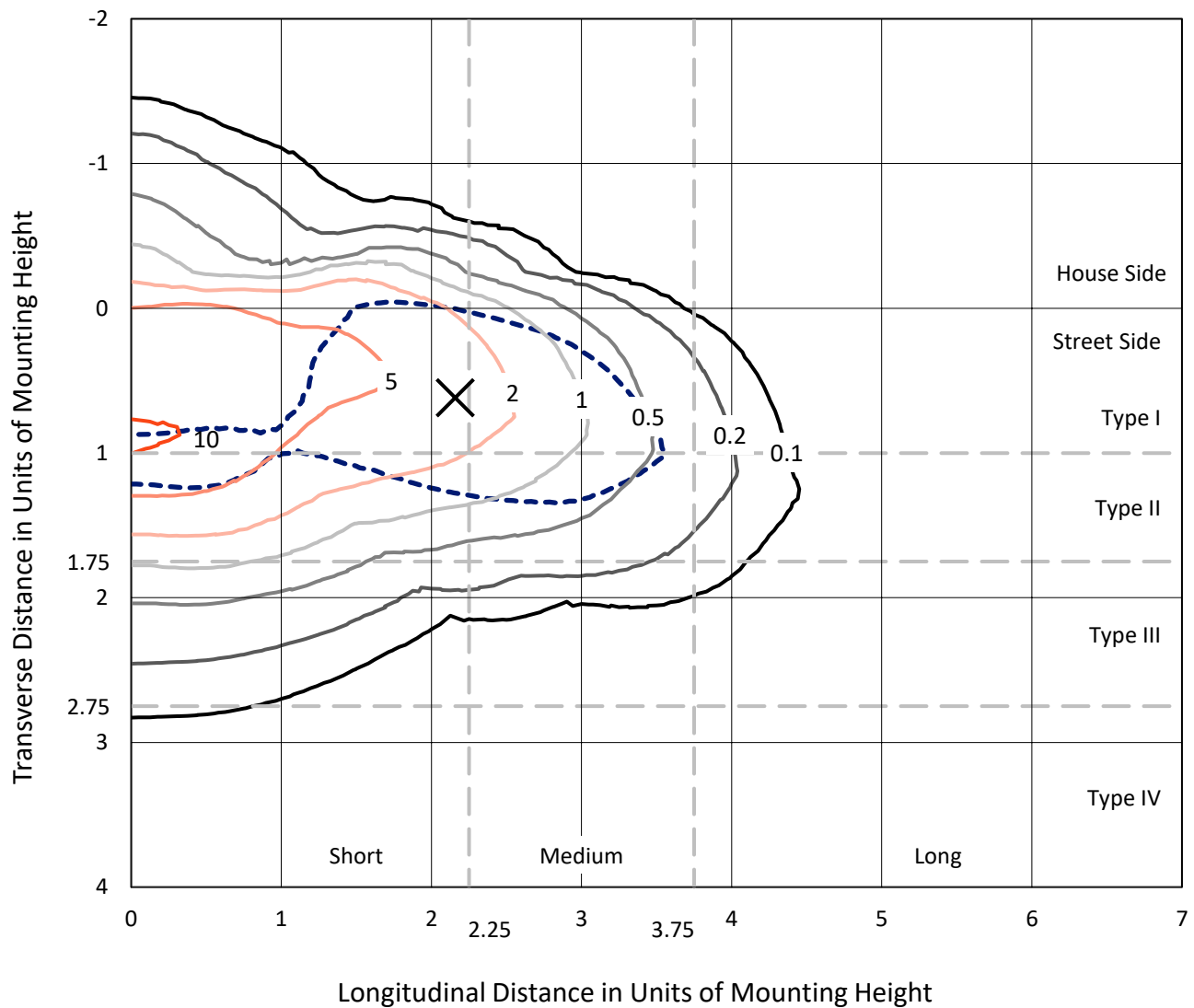


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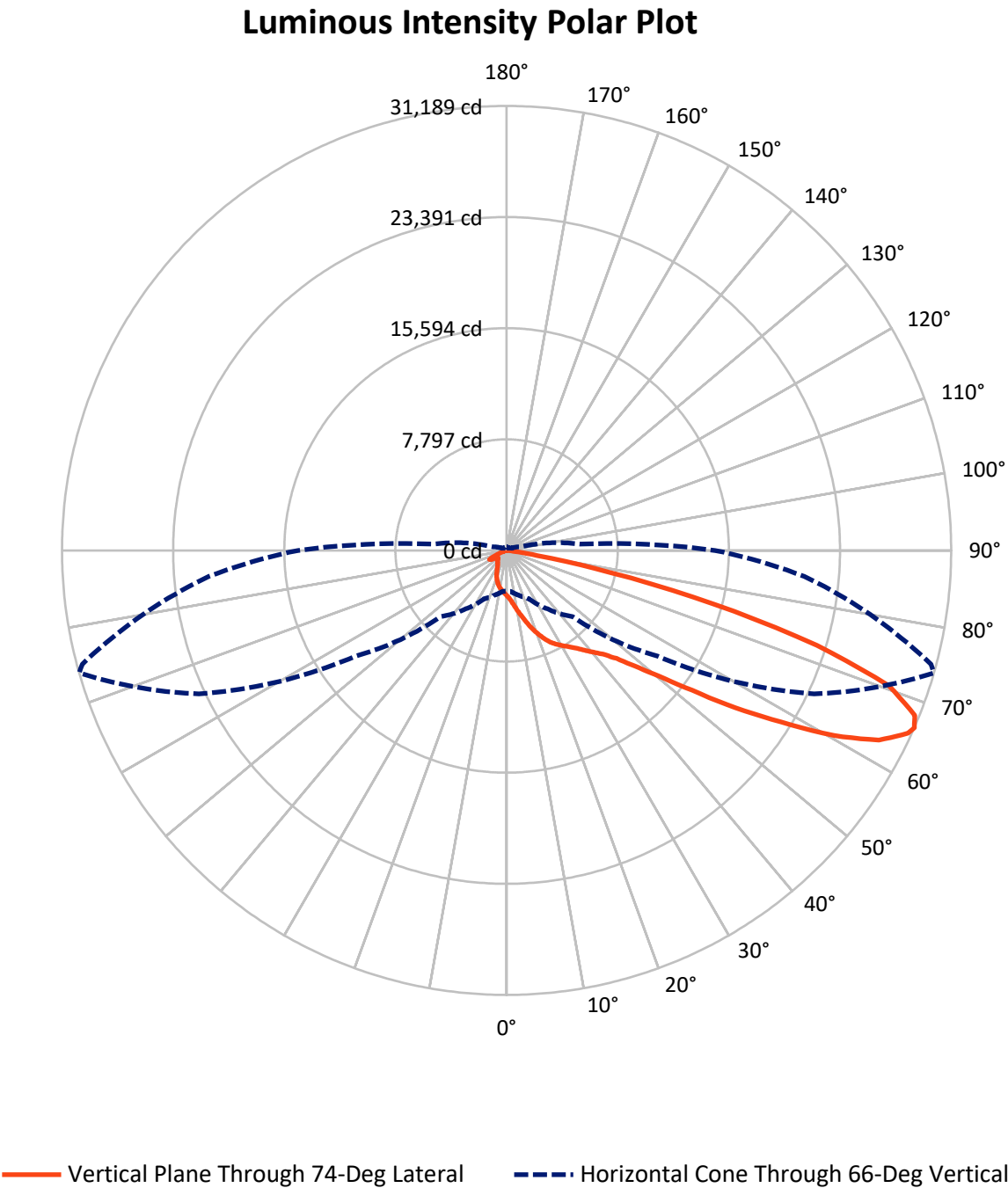
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Short - N/A

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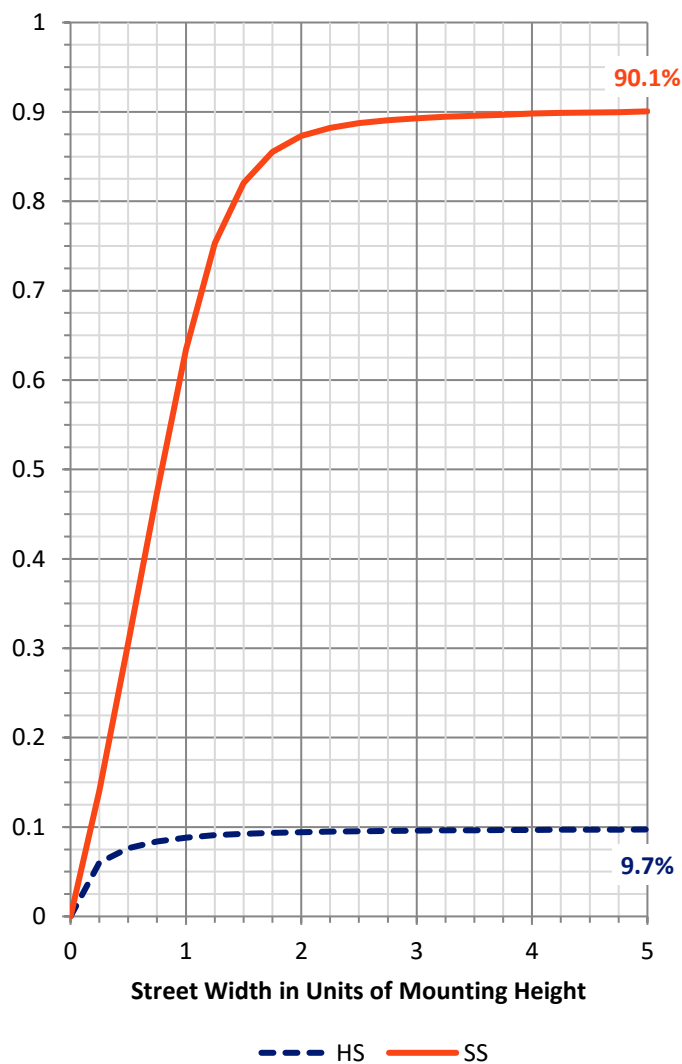
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2849.7	0.0	2849.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	26219.3	0.0	26219.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	29069.0	0.0	29069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.7	1.1
10°-20°	992.9	3.4
20°-30°	1894.9	6.5
30°-40°	3321.3	11.4
40°-50°	5695.1	19.6
50°-60°	7407.0	25.5
60°-70°	6705.2	23.1
70°-80°	2587.2	8.9
80°-90°	155.7	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°	29069.0	100.0
0°-180°	29069.0	100.0

Coefficient of Utilization



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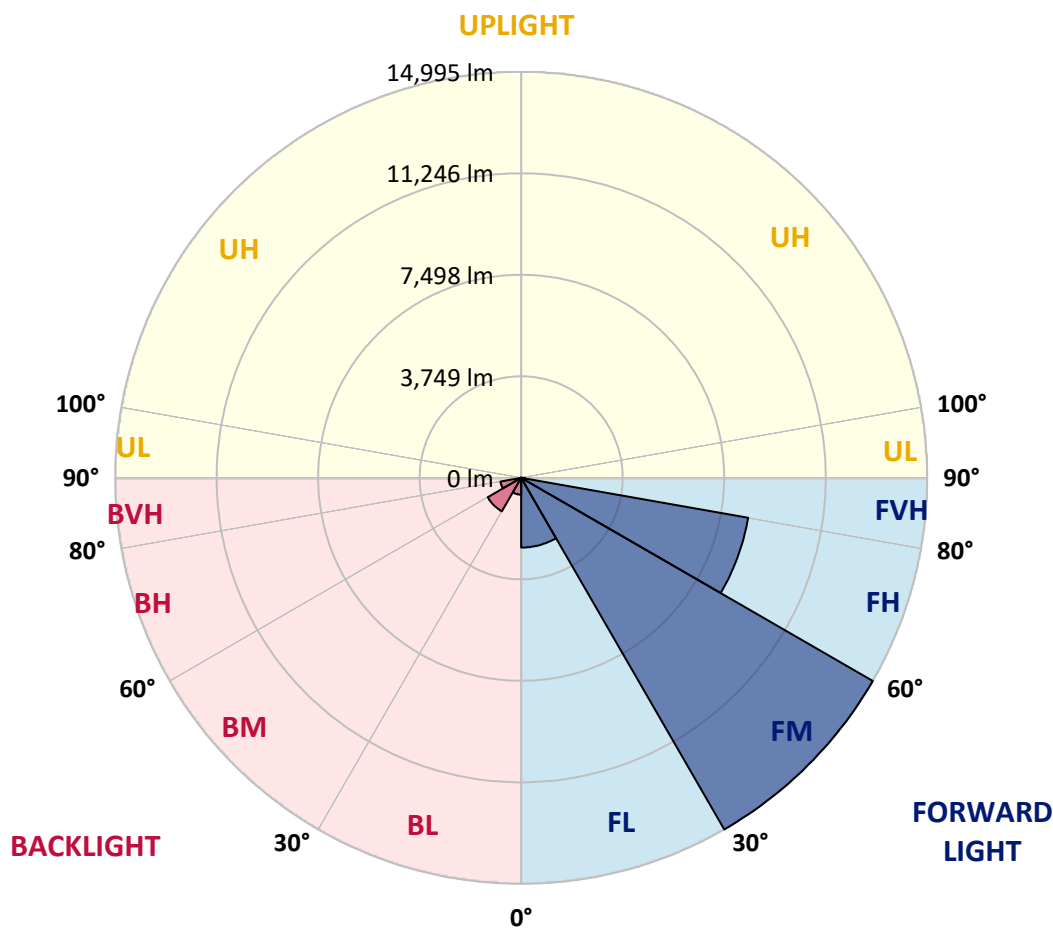
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2575.9	8.9			
FM	(30°-60°)	14995.3	51.6			
FH	(60°-80°)	8513.3	29.3			G4/12000
FVH	(80°-90°)	134.8	0.5			G2/225
BL	(0°-30°)	621.6	2.1	B2/1000		
BM	(30°-60°)	1428.2	4.9	B2/2500		
BH	(60°-80°)	779.1	2.7	B2/1000		G2/1000
BVH	(80°-90°)	20.9	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°	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1
2.5°	3809.8	3778.5	3721.1	3715.9	3668.9	3611.5	3512.4	3408.0	3334.9	3324.5	3235.8
5°	4561.4	4545.7	4488.3	4451.8	4363.1	4227.4	3997.7	3768.1	3575.0	3554.1	3355.8
7.5°	4759.7	4770.1	4780.6	4817.1	4785.8	4723.2	4550.9	4227.4	3924.7	3877.7	3533.2
10°	4791.0	4780.6	4780.6	4827.5	4916.3	5005.0	4984.1	4707.5	4316.1	4258.7	3778.5
12.5°	5130.2	5145.9	5109.4	5088.5	5072.8	5119.8	5276.4	5156.3	4728.4	4681.4	4076.0
15°	5568.6	5563.4	5511.2	5511.2	5464.3	5386.0	5485.1	5573.9	5224.2	5166.8	4415.2
17.5°	5887.0	5907.9	5902.7	5934.0	5918.3	5813.9	5761.7	5944.4	5735.6	5662.6	4801.5
20°	6142.7	6200.1	6221.0	6320.2	6367.1	6294.1	6158.4	6273.2	6226.2	6158.4	5192.9
22.5°	6414.1	6461.1	6497.6	6669.8	6800.3	6784.7	6612.4	6586.3	6701.2	6638.5	5579.1
25°	6685.5	6706.4	6816.0	7024.7	7233.5	7285.7	7108.2	6904.7	7129.1	7071.7	5923.5
27.5°	6983.0	6993.4	7123.9	7379.6	7671.9	7781.5	7640.6	7264.8	7457.9	7457.9	6236.7
30°	7525.8	7630.1	7682.3	7912.0	8167.7	8319.0	8152.0	7645.8	7750.2	7797.1	6565.5
32.5°	8694.8	8710.5	8694.8	8794.0	8846.2	8934.9	8741.8	8073.7	8047.6	8099.8	6889.0
35°	10479.7	10417.1	10250.1	10103.9	9801.2	9634.2	9383.7	8621.7	8413.0	8486.0	7207.4
37.5°	12645.6	12556.8	12175.9	11727.0	11079.9	10411.8	10098.7	9289.8	8877.5	8971.4	7551.8
40°	14712.3	14654.9	14200.8	13647.6	12541.2	11398.2	10735.4	9853.4	9394.1	9430.7	7901.5
42.5°	16413.7	16403.2	16022.2	15442.9	14023.4	12462.9	11486.9	10406.6	9936.9	9994.3	8266.8
45°	17702.7	17603.6	17321.8	16904.2	15458.6	13569.3	12395.0	11246.9	10808.5	10876.3	8814.8
47.5°	17702.7	17718.4	17901.1	17859.3	16460.6	14607.9	13386.7	12306.3	12097.6	12160.2	9717.7
50°	16262.3	16408.4	17222.6	17906.3	16982.5	15416.8	14456.5	13631.9	13845.9	13939.9	11293.8
52.5°	13412.7	13658.0	15072.4	16632.9	16596.3	15823.9	15563.0	15317.7	16278.0	16445.0	13621.5
55°	10192.6	10354.4	12196.7	14247.8	14915.8	15489.9	16528.5	17457.4	19498.1	19461.5	15985.7
57.5°	7614.5	7765.8	9352.4	11627.9	12509.9	14044.2	17024.3	19905.1	22692.1	22833.0	18203.8
60°	5600.0	5714.8	7066.5	8934.9	10208.3	11831.4	16826.0	22316.3	26371.4	26209.7	20160.9
62.5°	4143.9	4206.5	5182.4	6398.5	8089.4	9639.4	15578.6	23965.5	29309.7	28980.9	21251.6
65°	3204.4	3225.3	3731.6	4378.7	5881.8	7494.4	13720.7	24216.0	30932.8	30583.2	21230.8
66°	2854.8	2870.4	3241.0	3742.0	5005.0	6560.2	12906.5	23814.2	31188.6	30818.0	20969.8
67.5°	2395.5	2385.1	2604.3	2933.1	3757.7	5062.4	11460.9	22639.9	30885.9	30698.0	20134.8
70°	1774.4	1779.7	1889.3	1967.6	2197.2	2802.6	8277.3	19639.0	28464.3	28453.8	17843.7
72.5°	1315.2	1330.8	1414.3	1430.0	1372.6	1518.7	4770.1	15620.4	22770.4	22775.6	13339.7
75°	986.4	1012.5	1038.6	1049.0	996.8	960.3	2155.4	10511.0	14978.4	14868.8	7551.8
77.5°	751.5	762.0	782.8	767.2	756.8	662.8	897.7	5125.0	7395.3	6737.7	2447.7
80°	548.0	548.0	568.9	548.0	542.8	474.9	490.6	1644.0	2171.1	1805.8	527.1
82.5°	344.5	339.2	354.9	349.7	339.2	302.7	287.0	459.3	501.0	448.8	255.7
85°	193.1	187.9	182.7	177.4	161.8	135.7	156.6	172.2	229.6	234.9	182.7
87.5°	67.8	67.8	62.6	57.4	47.0	47.0	57.4	57.4	83.5	83.5	93.9
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°	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1	3173.1
2.5°	3194.0	3136.6	3053.1	2943.5	2865.2	2786.9	2703.4	2656.5	2588.6	2573.0	2593.8
5°	3251.4	3147.0	2938.3	2708.6	2510.3	2332.9	2165.9	2066.7	1967.6	1931.0	1946.7
7.5°	3371.5	3194.0	2839.1	2468.6	2139.8	1873.6	1675.3	1560.5	1471.7	1435.2	1445.7
10°	3548.9	3277.5	2745.2	2197.2	1774.4	1492.6	1325.6	1252.6	1200.4	1179.5	1184.7
12.5°	3762.9	3397.5	2625.1	1925.8	1461.3	1216.0	1137.7	1122.1	1111.6	1101.2	1106.4
15°	4002.9	3501.9	2484.2	1659.6	1216.0	1080.3	1054.2	1049.0	1043.8	1043.8	1043.8
17.5°	4253.5	3595.9	2327.7	1409.1	1059.5	996.8	981.2	981.2	981.2	986.4	986.4
20°	4488.3	3668.9	2145.0	1184.7	970.7	918.5	908.1	908.1	913.3	918.5	918.5
22.5°	4717.9	3700.2	1931.0	1028.1	897.7	850.7	835.0	835.0	835.0	840.3	840.3
25°	4916.3	3700.2	1717.0	929.0	835.0	788.1	767.2	762.0	767.2	767.2	767.2
27.5°	5083.3	3684.6	1508.3	861.1	772.4	725.4	704.6	699.3	709.8	715.0	715.0
30°	5260.7	3663.7	1341.3	798.5	720.2	673.2	652.4	652.4	668.0	688.9	688.9
32.5°	5432.9	3679.4	1210.8	746.3	668.0	631.5	610.6	615.8	647.2	678.5	678.5
35°	5615.6	3710.7	1132.5	709.8	631.5	595.0	579.3	595.0	626.3	657.6	657.6
37.5°	5798.3	3747.2	1085.5	678.5	600.2	563.6	553.2	574.1	610.6	641.9	647.2
40°	5991.4	3778.5	1033.4	647.2	579.3	537.6	532.3	553.2	600.2	631.5	636.7
42.5°	6231.4	3841.2	970.7	621.1	558.4	506.2	511.5	527.1	574.1	621.1	626.3
45°	6701.2	4039.5	908.1	595.0	532.3	490.6	480.1	490.6	542.8	595.0	605.4
47.5°	7583.2	4488.3	840.3	568.9	506.2	480.1	438.4	448.8	495.8	553.2	558.4
50°	9274.1	5443.4	803.7	542.8	485.4	443.6	396.6	396.6	433.2	485.4	485.4
52.5°	11909.7	7155.2	824.6	521.9	459.3	407.1	360.1	354.9	375.8	412.3	412.3
55°	14754.0	9034.0	902.9	501.0	428.0	386.2	334.0	307.9	323.6	344.5	344.5
57.5°	17008.6	9978.7	1116.9	490.6	391.4	370.5	302.7	266.2	281.8	302.7	302.7
60°	18000.2	9425.5	1356.9	501.0	365.3	344.5	271.4	234.9	260.9	281.8	287.0
62.5°	17196.5	7760.6	1456.1	474.9	328.8	307.9	266.2	219.2	250.5	266.2	271.4
65°	15458.6	5897.4	1137.7	412.3	302.7	266.2	240.1	208.8	234.9	250.5	250.5
66°	14634.0	5140.7	970.7	381.0	292.3	250.5	229.6	208.8	229.6	240.1	245.3
67.5°	13355.3	4055.1	720.2	334.0	271.4	229.6	214.0	198.3	219.2	229.6	229.6
70°	10443.2	2416.4	433.2	260.9	234.9	203.5	193.1	182.7	198.3	203.5	203.5
72.5°	6539.4	1148.2	276.6	193.1	198.3	193.1	161.8	172.2	177.4	182.7	182.7
75°	3167.9	454.1	187.9	140.9	161.8	182.7	130.5	151.4	156.6	167.0	161.8
77.5°	882.0	219.2	120.0	104.4	140.9	140.9	99.2	120.0	140.9	177.4	161.8
80°	255.7	140.9	78.3	78.3	99.2	99.2	67.8	83.5	93.9	104.4	109.6
82.5°	177.4	93.9	52.2	57.4	57.4	62.6	41.8	41.8	52.2	52.2	57.4
85°	140.9	41.8	31.3	36.5	26.1	31.3	20.9	20.9	26.1	20.9	20.9
87.5°	57.4	20.9	20.9	20.9	15.7	15.7	10.4	5.2	5.2	5.2	5.2
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)