

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: P1211480

Luminaire Tested: **ARCH4-290-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211480
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: ARCH4-290-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA 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: 27442 lumens
Efficiency: N/A
Efficacy: 94.7 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): 289.7
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



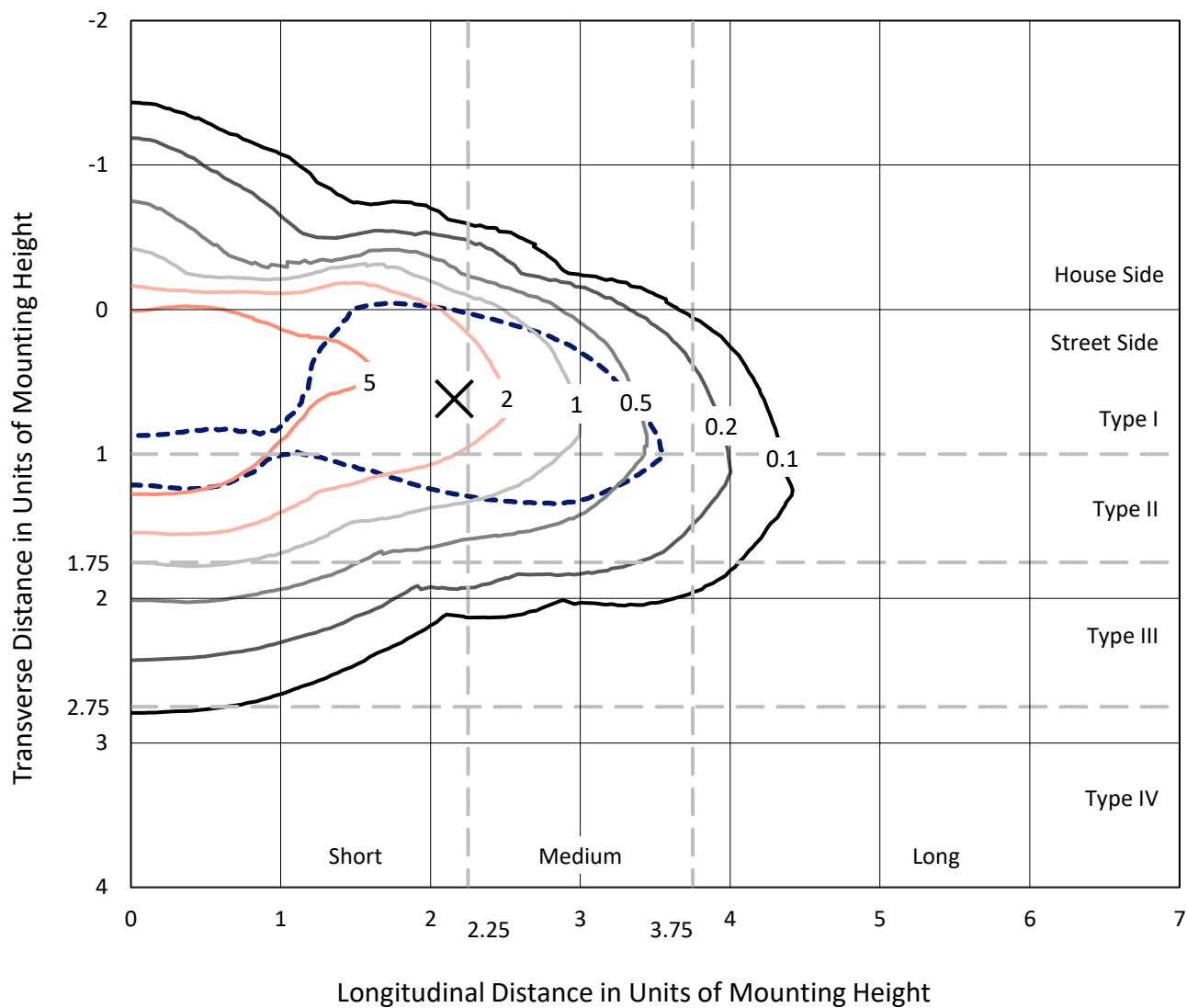
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Iso-Footcandle Lines of Horizontal Illumination

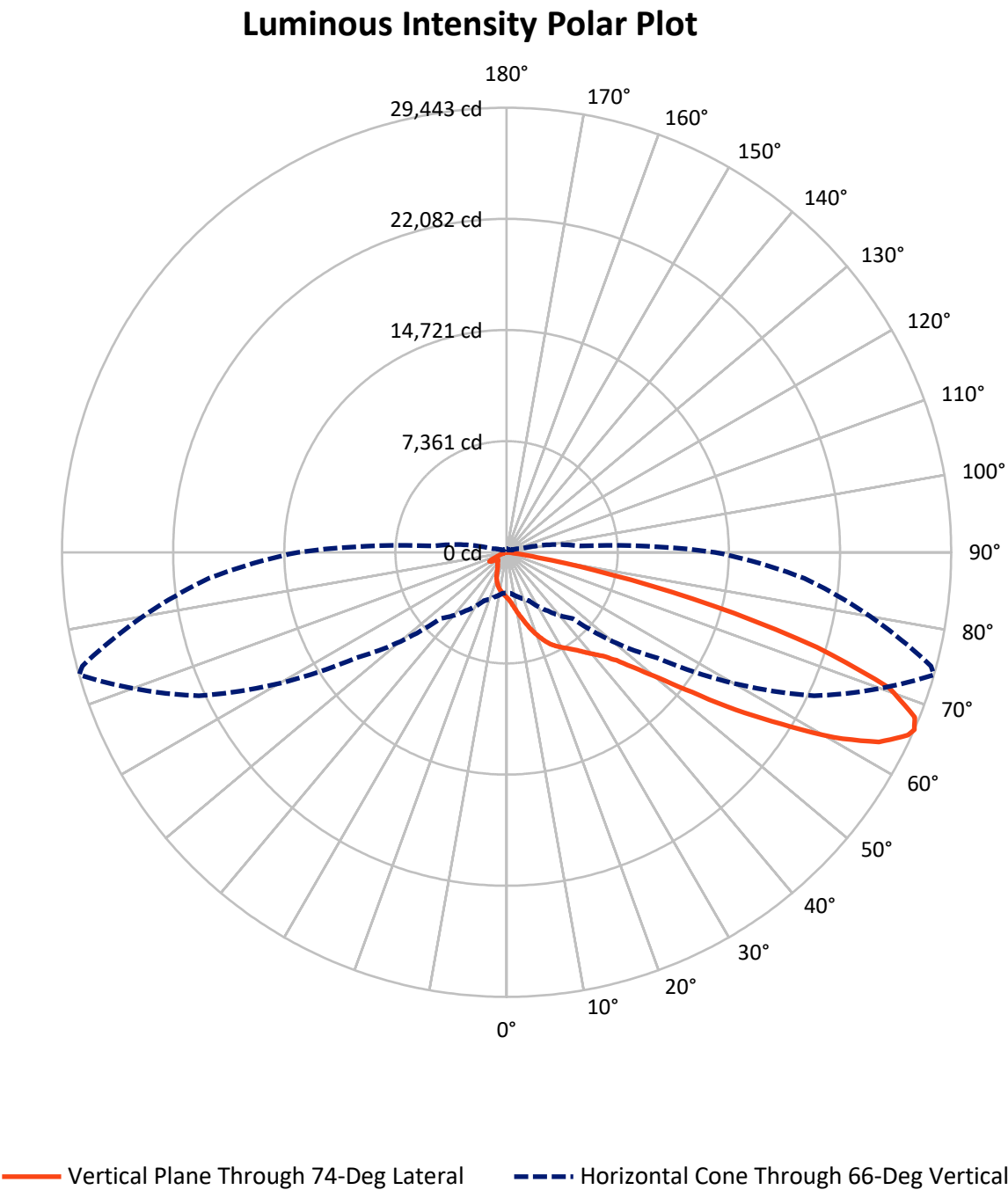
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type II - Short - N/A

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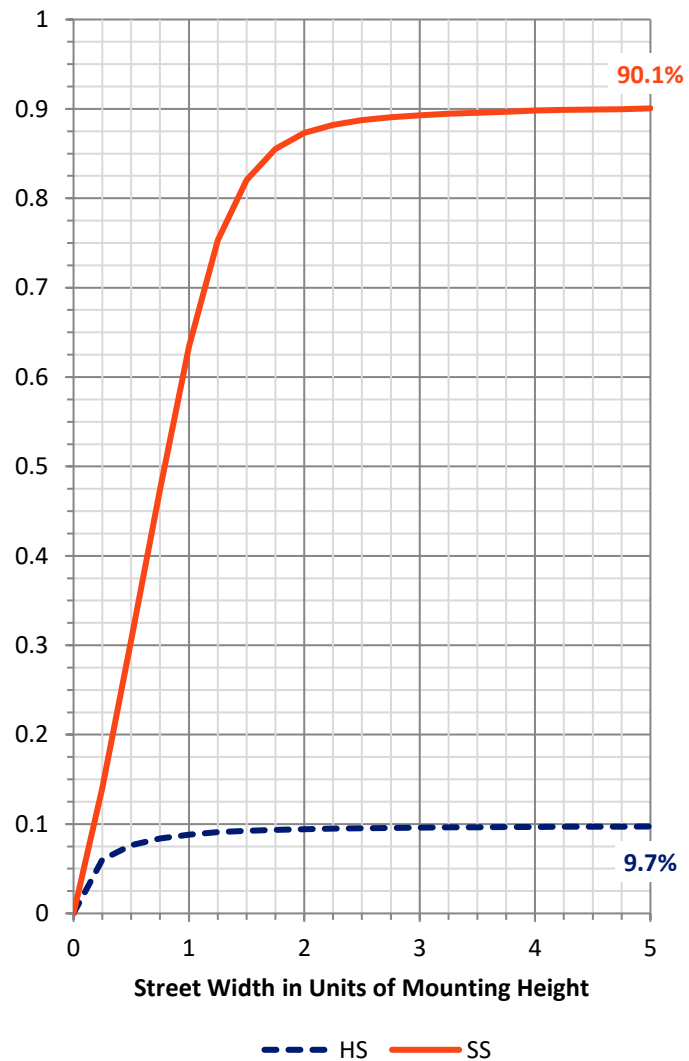
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2690.2	0.0	2690.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	24751.8	0.0	24751.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	27442.0	0.0	27442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.4	1.1
10°-20°	937.3	3.4
20°-30°	1788.9	6.5
30°-40°	3135.4	11.4
40°-50°	5376.4	19.6
50°-60°	6992.4	25.5
60°-70°	6329.9	23.1
70°-80°	2442.4	8.9
80°-90°	147.0	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°	27442.0	100.0
0°-180°	27442.0	100.0

Coefficient of Utilization



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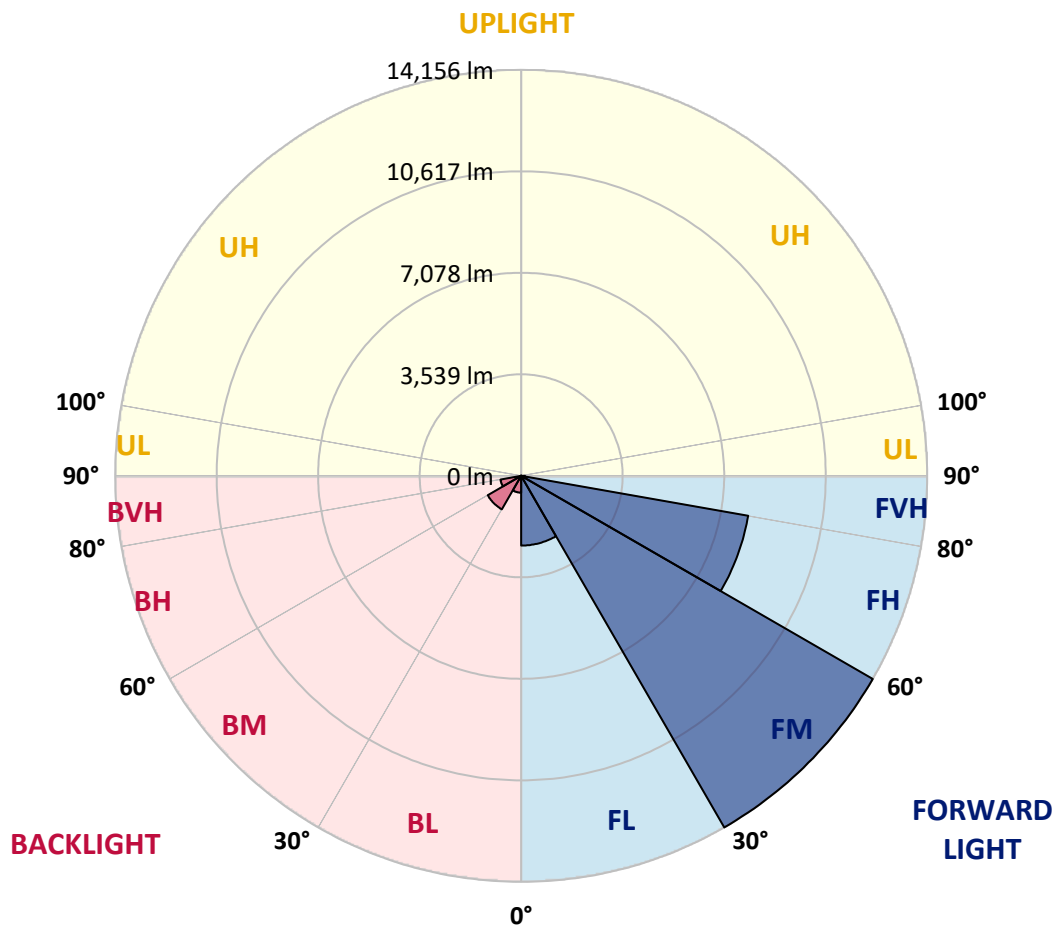
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2431.8	8.9			
FM	(30°-60°)	14156.0	51.6			
FH	(60°-80°)	8036.8	29.3			G4/12000
FVH	(80°-90°)	127.3	0.5			G2/225
BL	(0°-30°)	586.8	2.1	B2/1000		
BM	(30°-60°)	1348.2	4.9	B2/2500		
BH	(60°-80°)	735.4	2.7	B2/1000		G2/1000
BVH	(80°-90°)	19.7	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°	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5
2.5°	3596.6	3567.0	3512.9	3507.9	3463.6	3409.4	3315.8	3217.2	3148.3	3138.4	3054.7
5°	4306.1	4291.3	4237.1	4202.6	4118.9	3990.8	3774.0	3557.2	3374.9	3355.2	3168.0
7.5°	4493.3	4503.2	4513.0	4547.5	4517.9	4458.8	4296.2	3990.8	3705.0	3660.7	3335.5
10°	4522.9	4513.0	4513.0	4557.3	4641.1	4724.9	4705.2	4444.0	4074.5	4020.3	3567.0
12.5°	4843.1	4857.9	4823.4	4803.7	4788.9	4833.3	4981.1	4867.7	4463.7	4419.4	3847.9
15°	5257.0	5252.0	5202.8	5202.8	5158.4	5084.5	5178.1	5261.9	4931.8	4877.6	4168.1
17.5°	5557.5	5577.2	5572.3	5601.8	5587.1	5488.5	5439.3	5611.7	5414.6	5345.6	4532.7
20°	5798.9	5853.1	5872.8	5966.4	6010.8	5941.8	5813.7	5922.1	5877.7	5813.7	4902.2
22.5°	6055.1	6099.5	6133.9	6296.5	6419.7	6404.9	6242.3	6217.7	6326.1	6267.0	5266.8
25°	6311.3	6331.0	6434.5	6631.6	6828.6	6877.9	6710.4	6518.2	6730.1	6675.9	5592.0
27.5°	6592.1	6602.0	6725.2	6966.6	7242.5	7345.9	7212.9	6858.2	7040.5	7040.5	5887.6
30°	7104.5	7203.1	7252.3	7469.1	7710.5	7853.4	7695.8	7217.9	7316.4	7360.7	6198.0
32.5°	8208.2	8222.9	8208.2	8301.8	8351.0	8434.8	8252.5	7621.9	7597.2	7646.5	6503.5
35°	9893.1	9834.0	9676.4	9538.4	9252.6	9095.0	8858.5	8139.2	7942.1	8011.1	6804.0
37.5°	11937.8	11854.0	11494.4	11070.7	10459.7	9829.1	9533.5	8769.8	8380.6	8469.3	7129.2
40°	13888.8	13834.6	13406.0	12883.7	11839.2	10760.3	10134.6	9301.9	8868.3	8902.8	7459.3
42.5°	15495.0	15485.1	15125.5	14578.6	13238.5	11765.3	10844.0	9824.2	9380.7	9434.9	7804.1
45°	16711.9	16618.3	16352.3	15958.1	14593.4	12809.8	11701.3	10617.4	10203.5	10267.6	8321.5
47.5°	16711.9	16726.7	16899.1	16859.7	15539.3	13790.3	12637.4	11617.5	11420.5	11479.6	9173.8
50°	15352.1	15490.1	16258.6	16904.1	16032.0	14553.9	13647.4	12869.0	13071.0	13159.6	10661.7
52.5°	12662.0	12893.6	14228.8	15701.9	15667.4	14938.2	14691.9	14460.3	15366.9	15524.5	12859.1
55°	9622.2	9774.9	11514.1	13450.3	14081.0	14622.9	15603.4	16480.4	18406.8	18372.3	15091.0
57.5°	7188.3	7331.2	8828.9	10977.0	11809.7	13258.2	16071.4	18791.0	21422.0	21555.0	17184.9
60°	5286.5	5394.9	6671.0	8434.8	9636.9	11169.2	15884.2	21067.3	24895.4	24742.7	19032.5
62.5°	3911.9	3971.1	4892.4	6040.3	7636.6	9099.9	14706.7	22624.1	27669.3	27358.9	20062.2
65°	3025.1	3044.8	3522.7	4133.6	5552.6	7075.0	12952.7	22860.6	29201.5	28871.4	20042.5
66°	2695.0	2709.8	3059.6	3532.6	4724.9	6193.1	12184.1	22481.3	29442.9	29093.1	19796.1
67.5°	2261.4	2251.6	2458.5	2768.9	3547.3	4779.1	10819.4	21372.7	29157.2	28979.8	19007.8
70°	1675.1	1680.1	1783.5	1857.4	2074.2	2645.7	7814.0	18539.8	26871.1	26861.2	16844.9
72.5°	1241.6	1256.3	1335.2	1350.0	1295.8	1433.7	4503.2	14746.1	21495.9	21500.8	12593.1
75°	931.2	955.8	980.4	990.3	941.0	906.5	2034.8	9922.7	14140.1	14036.6	7129.2
77.5°	709.5	719.3	739.0	724.2	714.4	625.7	847.4	4838.2	6981.4	6360.6	2310.7
80°	517.3	517.3	537.0	517.3	512.4	448.3	463.1	1552.0	2049.6	1704.7	497.6
82.5°	325.2	320.2	335.0	330.1	320.2	285.8	271.0	433.6	473.0	423.7	241.4
85°	182.3	177.4	172.4	167.5	152.7	128.1	147.8	162.6	216.8	221.7	172.4
87.5°	64.0	64.0	59.1	54.2	44.3	44.3	54.2	54.2	78.8	78.8	88.7
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°	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5	2995.5
2.5°	3015.2	2961.0	2882.2	2778.7	2704.8	2630.9	2552.1	2507.8	2443.7	2428.9	2448.6
5°	3069.4	2970.9	2773.8	2557.0	2369.8	2202.3	2044.6	1951.0	1857.4	1822.9	1837.7
7.5°	3182.8	3015.2	2680.2	2330.4	2020.0	1768.7	1581.5	1473.1	1389.4	1354.9	1364.7
10°	3350.3	3094.1	2591.5	2074.2	1675.1	1409.1	1251.4	1182.4	1133.2	1113.5	1118.4
12.5°	3552.3	3207.4	2478.2	1818.0	1379.5	1148.0	1074.1	1059.3	1049.4	1039.6	1044.5
15°	3778.9	3305.9	2345.2	1566.7	1148.0	1019.9	995.2	990.3	985.4	985.4	985.4
17.5°	4015.4	3394.6	2197.4	1330.3	1000.2	941.0	926.2	926.2	926.2	931.2	931.2
20°	4237.1	3463.6	2024.9	1118.4	916.4	867.1	857.3	857.3	862.2	867.1	867.1
22.5°	4453.9	3493.1	1822.9	970.6	847.4	803.1	788.3	788.3	788.3	793.2	793.2
25°	4641.1	3493.1	1620.9	877.0	788.3	744.0	724.2	719.3	724.2	724.2	724.2
27.5°	4798.8	3478.4	1423.9	812.9	729.2	684.8	665.1	660.2	670.1	675.0	675.0
30°	4966.3	3458.7	1266.2	753.8	679.9	635.6	615.9	615.9	630.6	650.3	650.3
32.5°	5128.9	3473.4	1143.0	704.5	630.6	596.2	576.4	581.4	610.9	640.5	640.5
35°	5301.3	3503.0	1069.1	670.1	596.2	561.7	546.9	561.7	591.2	620.8	620.8
37.5°	5473.7	3537.5	1024.8	640.5	566.6	532.1	522.2	542.0	576.4	606.0	610.9
40°	5656.0	3567.0	975.5	610.9	546.9	507.5	502.5	522.2	566.6	596.2	601.1
42.5°	5882.7	3626.2	916.4	586.3	527.2	477.9	482.8	497.6	542.0	586.3	591.2
45°	6326.1	3813.4	857.3	561.7	502.5	463.1	453.3	463.1	512.4	561.7	571.5
47.5°	7158.7	4237.1	793.2	537.0	477.9	453.3	413.9	423.7	468.1	522.2	527.2
50°	8755.0	5138.7	758.7	512.4	458.2	418.8	374.4	374.4	408.9	458.2	458.2
52.5°	11243.1	6754.7	778.4	492.7	433.6	384.3	340.0	335.0	354.7	389.2	389.2
55°	13928.2	8528.4	852.3	473.0	404.0	364.6	315.3	290.7	305.5	325.2	325.2
57.5°	16056.6	9420.2	1054.3	463.1	369.5	349.8	285.8	251.3	266.1	285.8	285.8
60°	16992.7	8897.9	1281.0	473.0	344.9	325.2	256.2	221.7	246.3	266.1	271.0
62.5°	16234.0	7326.2	1374.6	448.3	310.4	290.7	251.3	206.9	236.5	251.3	256.2
65°	14593.4	5567.4	1074.1	389.2	285.8	251.3	226.6	197.1	221.7	236.5	236.5
66°	13814.9	4853.0	916.4	359.7	275.9	236.5	216.8	197.1	216.8	226.6	231.6
67.5°	12607.8	3828.2	679.9	315.3	256.2	216.8	202.0	187.2	206.9	216.8	216.8
70°	9858.6	2281.1	408.9	246.3	221.7	192.1	182.3	172.4	187.2	192.1	192.1
72.5°	6173.4	1083.9	261.1	182.3	187.2	182.3	152.7	162.6	167.5	172.4	172.4
75°	2990.6	428.6	177.4	133.0	152.7	172.4	123.2	142.9	147.8	157.7	152.7
77.5°	832.6	206.9	113.3	98.5	133.0	133.0	93.6	113.3	133.0	167.5	152.7
80°	241.4	133.0	73.9	73.9	93.6	93.6	64.0	78.8	88.7	98.5	103.5
82.5°	167.5	88.7	49.3	54.2	54.2	59.1	39.4	39.4	49.3	49.3	54.2
85°	133.0	39.4	29.6	34.5	24.6	29.6	19.7	19.7	24.6	19.7	19.7
87.5°	54.2	19.7	19.7	19.7	14.8	14.8	9.9	4.9	4.9	4.9	4.9
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)