

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: P1211355

Luminaire Tested: **ARCH4-250-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211355
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: ARCH4-250-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34316 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.5
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

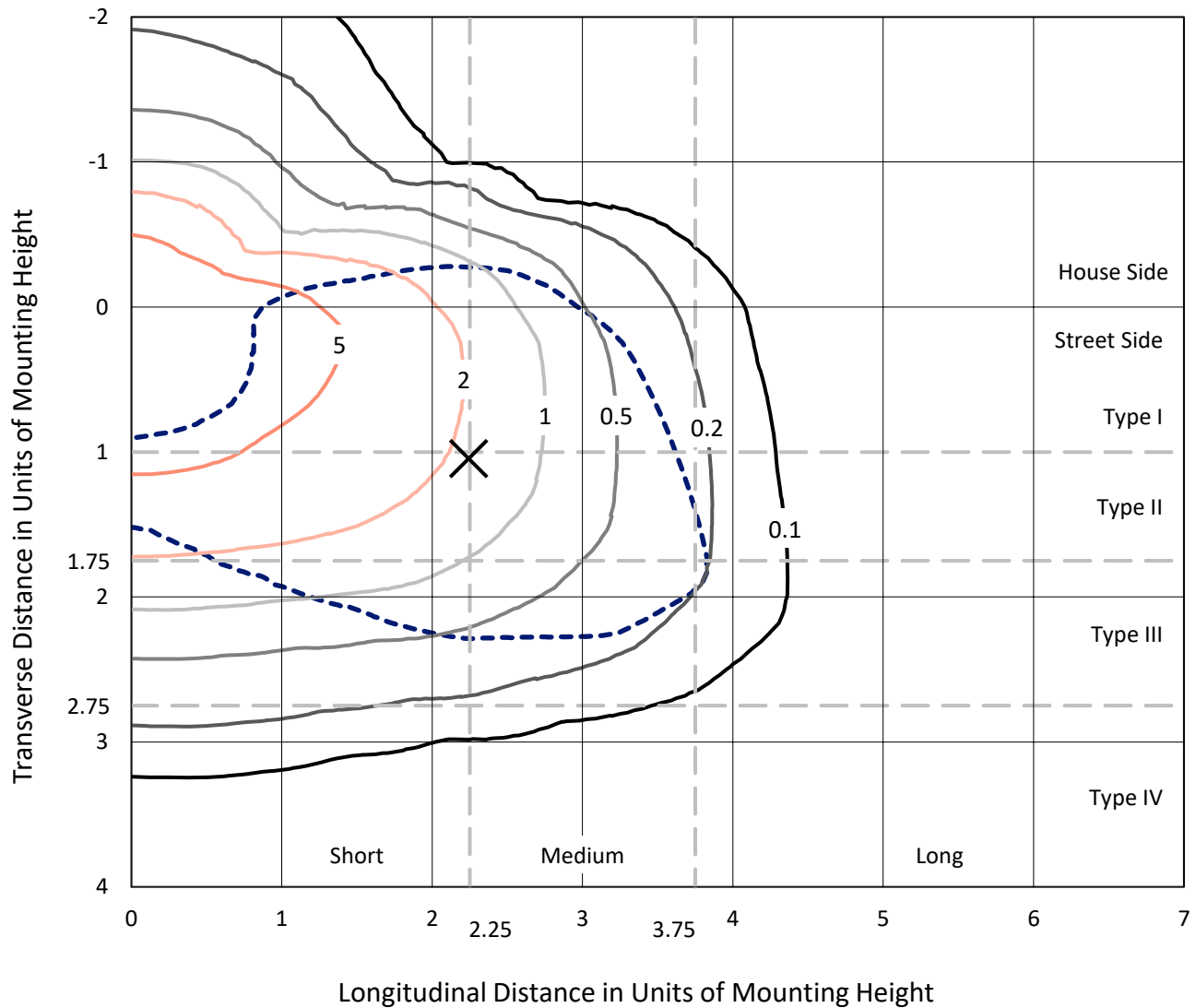


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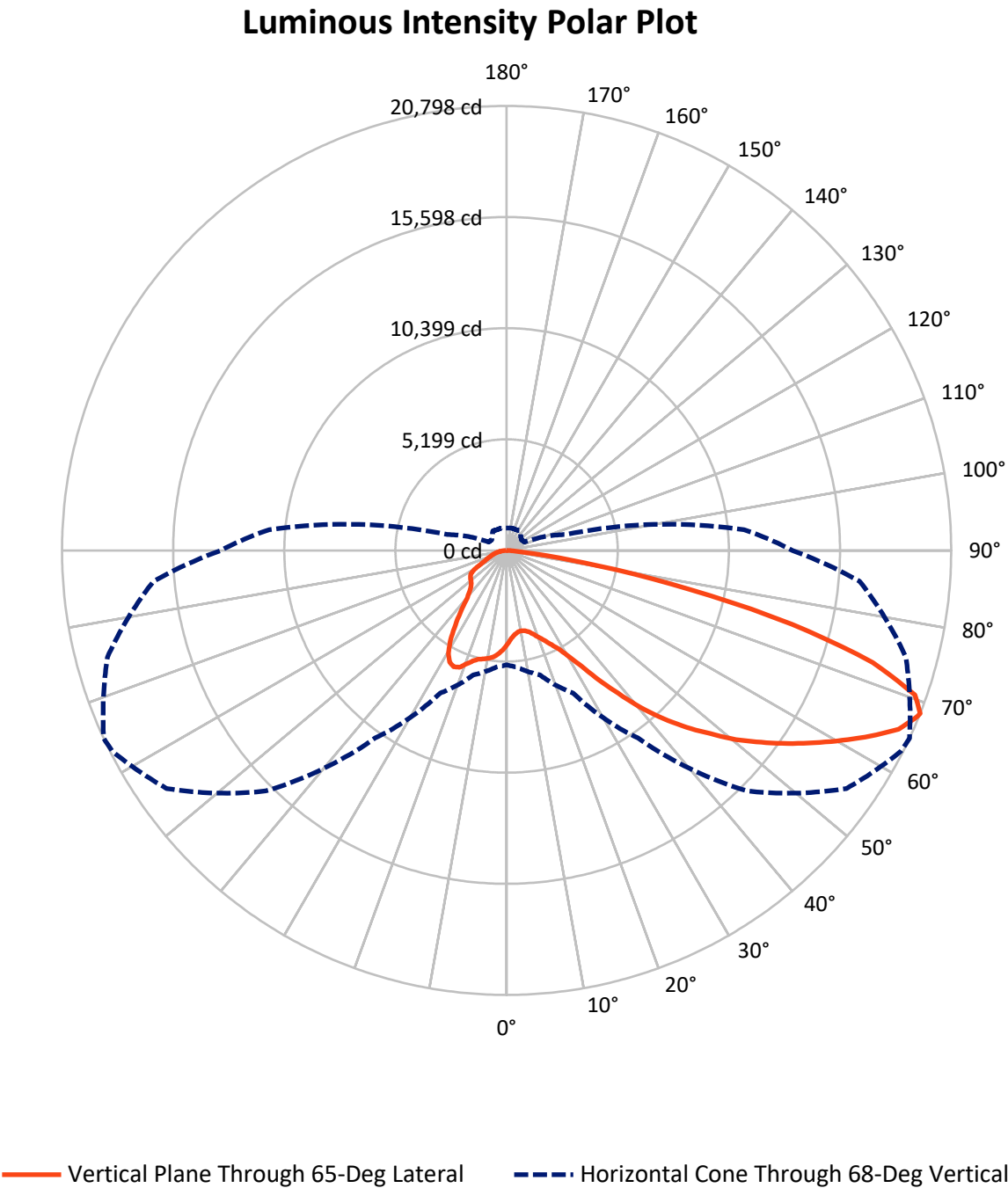
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type III - Short - N/A

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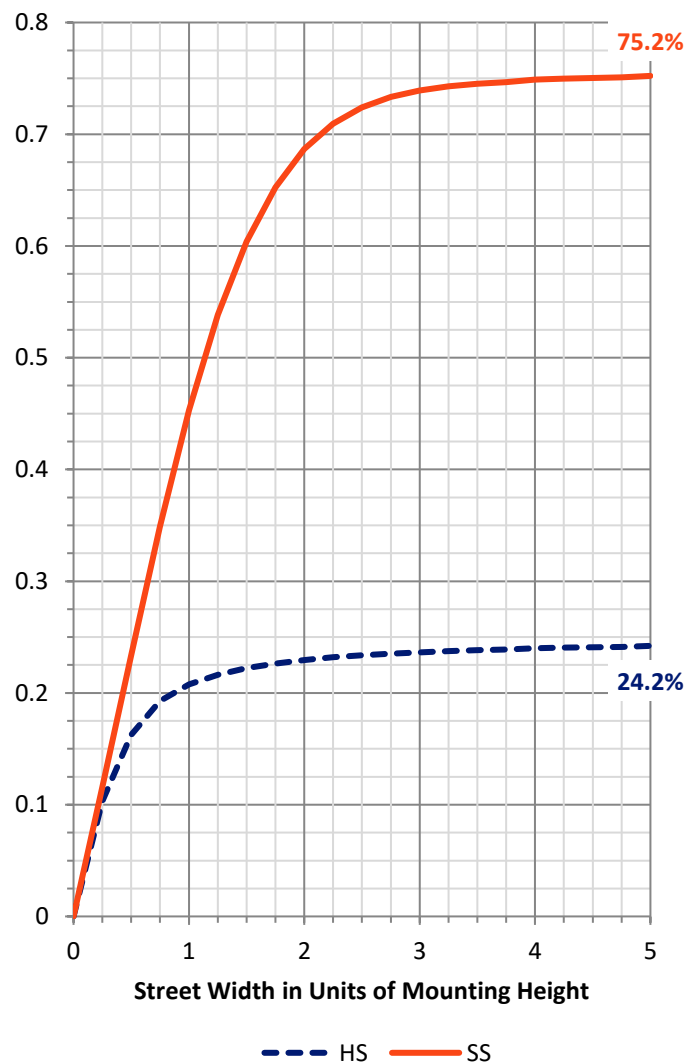
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8413.2	0.0	8413.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	25902.7	0.0	25902.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	34316.0	0.0	34316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.1	1.2
10°-20°	1364.5	4.0
20°-30°	2469.7	7.2
30°-40°	3885.1	11.3
40°-50°	5786.5	16.9
50°-60°	7590.7	22.1
60°-70°	8300.9	24.2
70°-80°	4107.5	12.0
80°-90°	391.8	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°	34316.0	100.0
0°-180°	34316.0	100.0

Coefficient of Utilization



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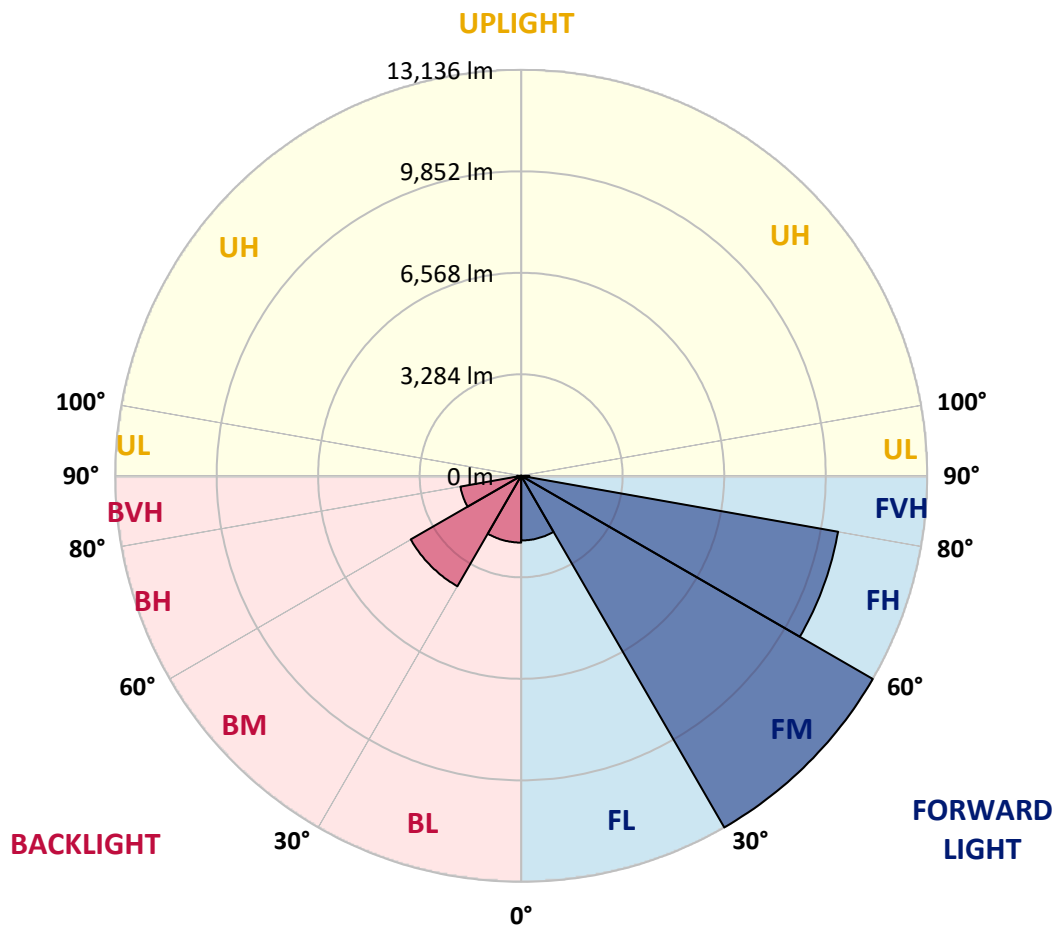
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2091.9	6.1			
FM	(30°-60°)	13135.7	38.3			
FH	(60°-80°)	10411.6	30.3			G4/12000
FVH	(80°-90°)	263.5	0.8			G3/500
BL	(0°-30°)	2161.4	6.3	B3/2500		
BM	(30°-60°)	4126.6	12.0	B3/5000		
BH	(60°-80°)	1996.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	128.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2
2.5°	3827.6	3818.8	3840.9	3863.0	3911.7	3969.2	4048.9	4115.2	4124.1	4248.0	4345.3
5°	3601.9	3588.7	3610.8	3637.3	3659.5	3730.3	3814.3	3911.7	3951.5	4132.9	4340.9
7.5°	3624.1	3619.6	3628.5	3619.6	3619.6	3650.6	3708.1	3805.5	3849.7	4066.6	4363.0
10°	3752.4	3761.2	3765.7	3739.1	3712.6	3699.3	3717.0	3783.4	3814.3	4071.0	4460.4
12.5°	3964.8	3978.1	3982.5	3933.8	3898.4	3840.9	3809.9	3836.5	3858.6	4115.2	4597.6
15°	4252.4	4261.3	4230.3	4199.3	4110.8	4040.0	3964.8	3942.7	3951.5	4208.2	4752.4
17.5°	4588.7	4575.4	4575.4	4500.2	4385.2	4274.5	4150.6	4132.9	4132.9	4358.6	4973.7
20°	4956.0	4969.3	4929.4	4827.7	4712.6	4540.0	4416.1	4336.5	4345.3	4531.2	5243.6
22.5°	5487.0	5509.1	5402.9	5256.9	5079.9	4880.8	4703.8	4575.4	4579.9	4756.9	5522.4
25°	6057.8	6066.7	6000.3	5805.6	5566.6	5283.4	5048.9	4885.2	4880.8	5009.1	5880.8
27.5°	6641.9	6681.7	6549.0	6363.1	6141.9	5787.9	5478.1	5256.9	5221.5	5394.1	6327.7
30°	7243.7	7292.4	7164.1	6982.6	6708.3	6407.4	6040.1	5783.5	5761.3	5991.4	6925.1
32.5°	7849.9	7863.2	7761.4	7611.0	7363.2	7080.0	6783.5	6500.3	6478.2	6854.3	7699.5
35°	8345.5	8385.4	8314.6	8279.2	8097.7	7836.7	7549.0	7385.3	7442.8	7925.2	8704.0
37.5°	8942.9	8982.7	8903.1	8894.2	8836.7	8611.0	8411.9	8425.2	8482.7	9137.6	9761.5
40°	9805.8	9850.0	9646.5	9558.0	9558.0	9336.7	9270.4	9584.5	9659.8	10332.4	10863.4
42.5°	10535.9	10606.7	10487.2	10429.7	10257.1	10102.3	10181.9	10624.4	10752.7	11474.0	11823.6
45°	10889.9	10943.0	11084.6	11252.8	11084.6	10814.7	11115.6	11615.6	11797.0	12527.2	12783.8
47.5°	11080.2	11128.9	11292.6	11743.9	11859.0	11633.3	12058.1	12682.0	12805.9	13571.5	13699.8
50°	11106.7	11261.6	11474.0	11925.4	12451.9	12482.9	13005.1	13766.2	13912.2	14598.1	14505.1
52.5°	10889.9	10951.9	11389.9	12151.0	12735.1	13266.1	14036.1	14806.0	14912.2	15562.7	15217.5
55°	10535.9	10624.4	11062.5	12097.9	13009.5	14009.5	15084.8	15828.2	15947.7	16500.8	15876.9
57.5°	10217.3	10261.6	10730.6	11943.1	13283.8	14752.9	16018.5	16894.6	16974.3	17323.8	16363.6
60°	9863.3	9912.0	10381.0	11611.2	13487.4	15314.9	16992.0	17969.9	18040.7	18191.1	16930.0
62.5°	8947.3	9075.7	9664.2	11062.5	13434.3	15956.5	18031.8	19031.9	19120.4	18956.7	17376.9
65°	7265.8	7447.3	8168.5	9819.1	12938.7	16372.5	18881.4	20009.8	20160.3	19531.9	17496.4
67.5°	5641.9	5770.2	6349.9	7792.4	11199.7	16164.5	19430.1	20682.4	20726.7	19439.0	16832.7
68°	5349.8	5478.1	6031.3	7367.6	10717.3	15916.7	19416.9	20700.1	20797.5	19337.2	16576.0
70°	4093.1	4239.1	4765.7	5836.6	8637.6	14341.4	18607.1	20275.3	20262.0	18107.1	14983.0
72.5°	2557.6	2641.7	3004.6	3681.6	5712.7	10912.0	15792.8	17881.4	17916.8	14761.8	11491.7
75°	1624.0	1624.0	1606.3	1783.3	2929.3	6217.1	11739.5	13766.2	13792.7	10336.8	7243.7
77.5°	1411.6	1371.7	1181.5	1000.0	1168.2	2416.0	6947.2	8889.8	8743.8	5566.6	3438.2
80°	1190.3	1123.9	969.1	805.3	752.2	756.7	2668.3	4513.5	4318.8	2004.5	1141.6
82.5°	858.4	800.9	730.1	632.8	579.7	451.3	557.5	1305.4	1274.4	579.7	371.7
85°	464.6	420.4	411.5	415.9	349.6	278.8	234.5	287.6	287.6	252.2	212.4
87.5°	163.7	119.5	141.6	159.3	137.2	115.0	92.9	110.6	115.0	110.6	101.8
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°	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2
2.5°	4402.9	4447.1	4553.3	4646.2	4712.6	4770.1	4801.1	4814.4	4845.4	4849.8	4840.9
5°	4438.3	4553.3	4712.6	4849.8	4925.0	4956.0	4964.8	4969.3	4956.0	4964.8	4956.0
7.5°	4531.2	4677.2	4902.9	5022.4	5035.6	4987.0	4991.4	4973.7	4991.4	5009.1	5009.1
10°	4672.8	4858.6	5071.0	5115.3	5057.8	5031.2	5084.3	5190.5	5225.9	5274.6	5274.6
12.5°	4858.6	5079.9	5230.3	5190.5	5137.4	5225.9	5380.8	5487.0	5522.4	5540.1	5526.8
15°	5071.0	5310.0	5385.2	5252.5	5349.8	5540.1	5593.2	5531.2	5442.7	5402.9	5425.0
17.5°	5341.0	5540.1	5495.8	5407.3	5628.6	5655.1	5482.6	5283.4	5141.8	5088.7	5124.1
20°	5624.2	5796.7	5593.2	5633.0	5770.2	5487.0	5159.5	4902.9	4779.0	4756.9	4792.3
22.5°	5925.1	6035.7	5690.5	5894.1	5690.5	5115.3	4721.5	4588.7	4557.7	4593.1	4624.1
25°	6265.8	6252.5	5858.7	5973.7	5394.1	4659.5	4425.0	4416.1	4416.1	4438.3	4482.5
27.5°	6650.8	6442.8	6026.8	5867.5	4880.8	4283.4	4239.1	4243.6	4230.3	4234.7	4256.8
30°	7097.7	6699.4	6212.7	5518.0	4305.5	4000.2	3982.5	3969.2	3938.2	3929.4	3938.2
32.5°	7659.7	6969.4	6403.0	4942.7	3801.1	3708.1	3699.3	3628.5	3553.3	3544.4	3575.4
35°	8372.1	7460.5	6500.3	4221.4	3385.1	3380.7	3349.7	3239.1	3141.7	3141.7	3119.6
37.5°	9186.3	8093.3	6540.1	3517.9	3040.0	3062.1	2973.6	2832.0	2756.8	2712.5	2725.8
40°	10018.2	8814.6	6535.7	2902.8	2739.1	2743.5	2677.1	2504.5	2318.7	2208.1	2234.6
42.5°	10819.1	9469.5	6420.7	2575.3	2495.7	2482.4	2429.3	2194.8	2039.9	1951.4	1955.8
45°	11460.7	10146.5	6243.7	2380.6	2274.4	2296.6	2177.1	2035.5	1893.9	1814.2	1809.8
47.5°	12102.4	10659.8	5960.5	2261.2	2110.7	2070.9	2022.2	1924.9	1818.7	1730.2	1734.6
50°	12686.5	11097.9	5695.0	2181.5	1960.3	1858.5	1867.3	1809.8	1716.9	1637.2	1632.8
52.5°	13098.0	11385.5	5548.9	2137.3	1778.8	1668.2	1699.2	1668.2	1579.7	1522.2	1517.8
55°	13509.5	11606.8	5597.6	2079.7	1579.7	1491.2	1544.3	1535.5	1486.8	1469.1	1473.5
57.5°	13841.4	11774.9	5770.2	1973.5	1389.4	1336.3	1424.8	1398.3	1362.9	1367.3	1367.3
60°	14164.4	11991.7	5973.7	1730.2	1225.7	1230.1	1314.2	1265.5	1243.4	1283.2	1287.7
62.5°	14500.7	12226.3	5805.6	1376.2	1084.1	1115.1	1212.4	1172.6	1181.5	1239.0	1256.7
65°	14460.9	12204.1	4730.3	1128.4	960.2	1022.2	1168.2	1154.9	1159.3	1181.5	1190.3
67.5°	13646.7	11425.3	3252.4	960.2	871.7	946.9	1132.8	1079.7	1084.1	1070.8	1075.3
68°	13372.3	11151.0	2867.4	933.7	854.0	929.2	1115.1	1066.4	1070.8	1057.6	1053.1
70°	11876.7	9549.1	1814.2	823.0	792.1	880.6	1026.6	1008.9	1004.5	995.6	995.6
72.5°	9053.5	7049.0	955.8	712.4	721.3	805.3	916.0	951.4	929.2	933.7	960.2
75°	5995.9	4239.1	663.7	610.6	632.8	690.3	814.2	885.0	862.9	876.1	862.9
77.5°	3172.7	2283.3	531.0	517.7	517.7	557.5	672.6	783.2	783.2	774.4	761.1
80°	1039.9	805.3	424.8	407.1	415.9	438.1	539.8	641.6	654.9	637.2	628.3
82.5°	349.6	371.7	318.6	296.5	305.3	323.0	407.1	491.2	495.6	460.2	451.3
85°	216.8	247.8	199.1	194.7	194.7	199.1	247.8	269.9	247.8	221.2	230.1
87.5°	101.8	123.9	92.9	79.6	66.4	57.5	44.2	17.7	17.7	8.8	8.8
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)