

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: P1211193

Luminaire Tested: **ARCH4-200-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29234 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 203.7
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



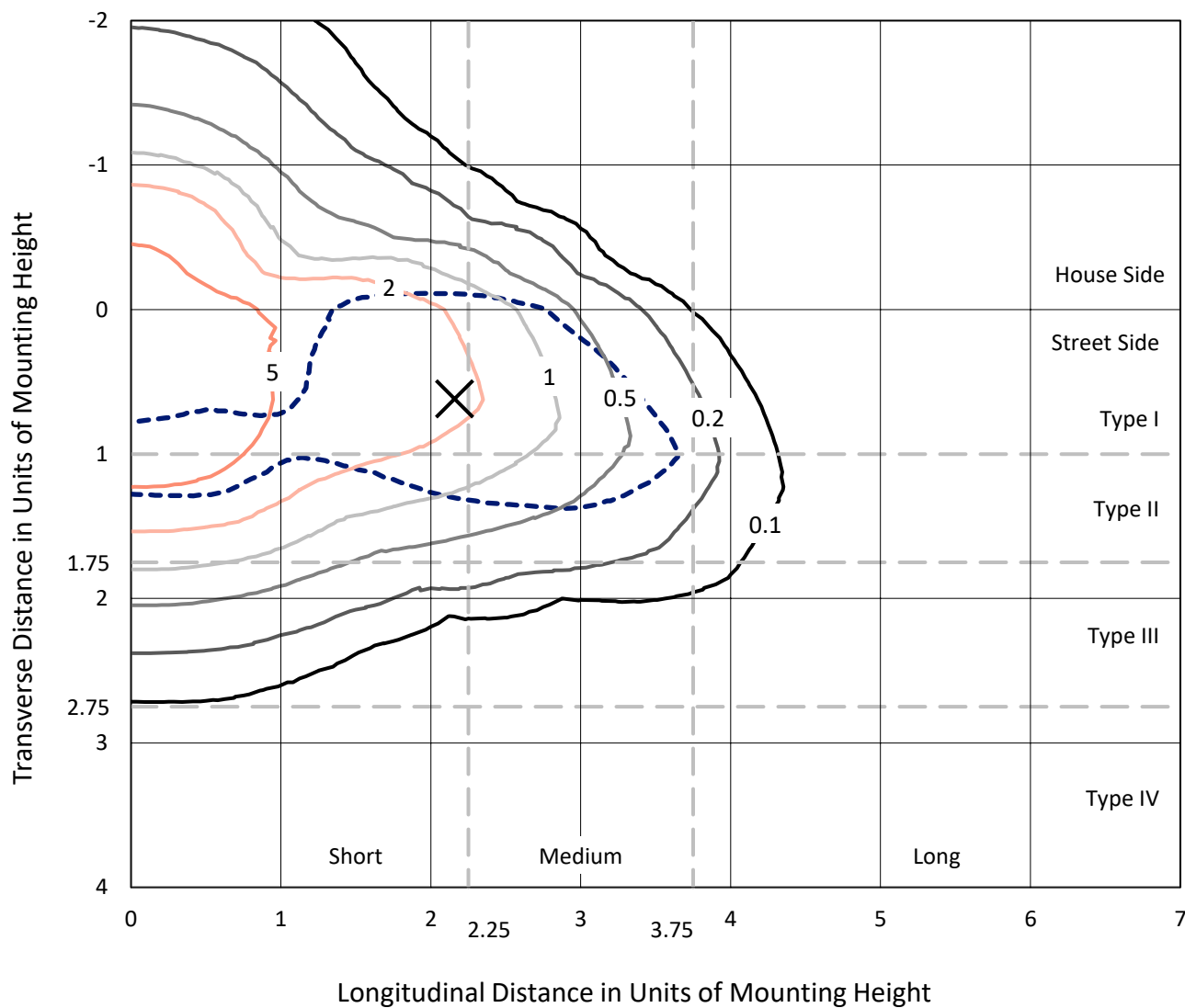
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

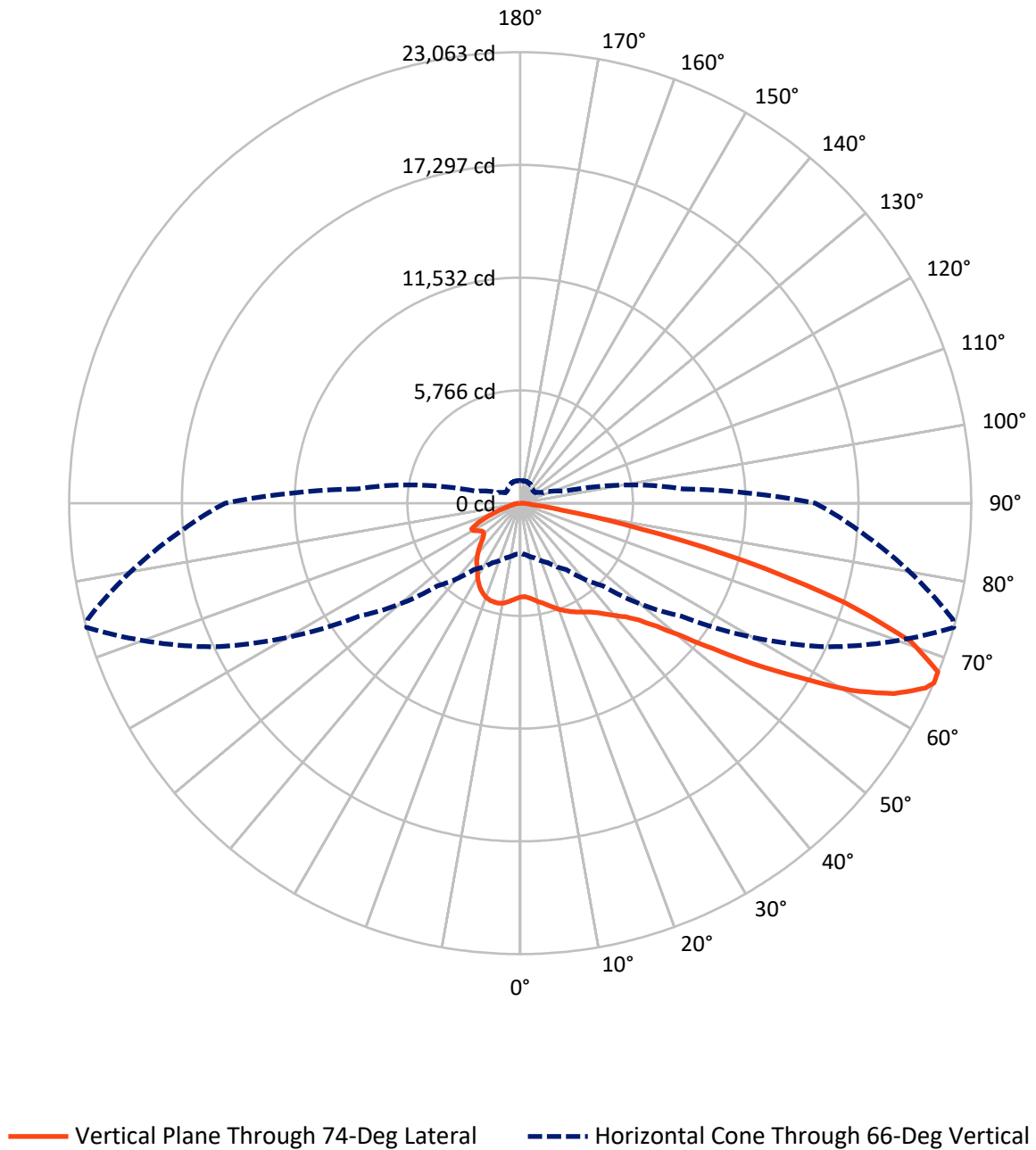
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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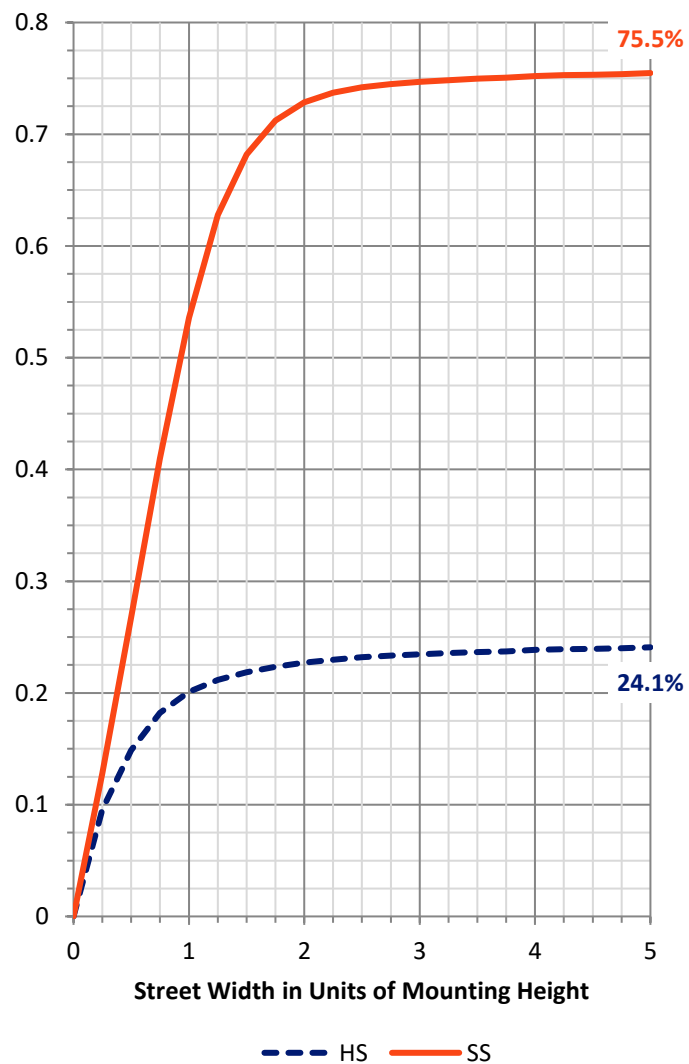
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7119.3	0.0	7119.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	22114.7	0.0	22114.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	29234.0	0.0	29234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.1	1.6
10°-20°	1405.8	4.8
20°-30°	2638.1	9.0
30°-40°	4058.0	13.9
40°-50°	5458.3	18.7
50°-60°	6455.1	22.1
60°-70°	5971.4	20.4
70°-80°	2512.1	8.6
80°-90°	278.0	1.0
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°	29234.0	100.0
0°-180°	29234.0	100.0

Coefficient of Utilization



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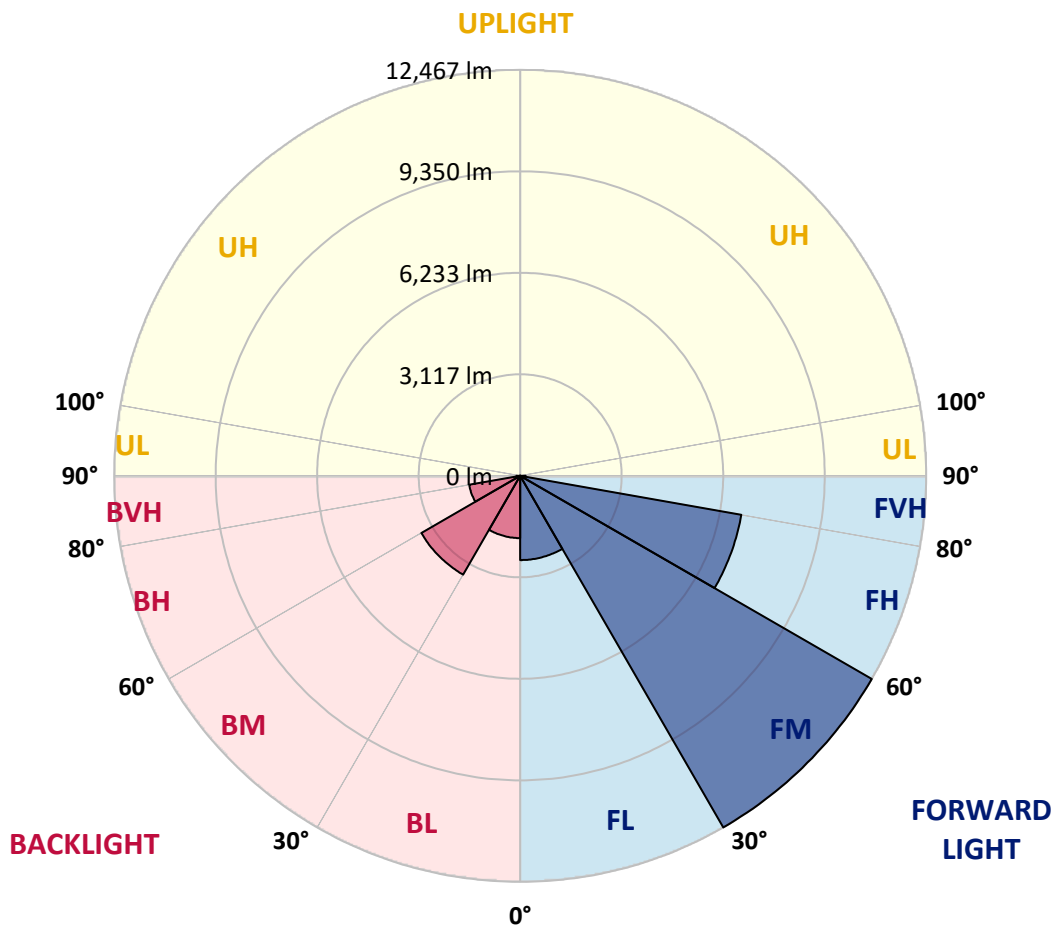
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2587.6	8.9			
FM	(30°-60°)	12466.7	42.6			
FH	(60°-80°)	6894.2	23.6			G3/7500
FVH	(80°-90°)	166.3	0.6			G2/225
BL	(0°-30°)	1913.5	6.5	B3/2500		
BM	(30°-60°)	3504.8	12.0	B3/5000		
BH	(60°-80°)	1589.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	111.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4
2.5°	4777.4	4769.9	4784.9	4807.5	4818.8	4799.9	4792.4	4788.7	4788.7	4777.4	4796.2
5°	4551.7	4547.9	4581.8	4623.1	4702.1	4758.6	4833.8	4878.9	4863.9	4841.3	4856.4
7.5°	4258.3	4250.7	4292.1	4371.1	4480.2	4604.3	4788.7	4931.6	4988.0	4980.5	4976.7
10°	4371.1	4363.6	4359.8	4337.3	4374.9	4495.2	4687.1	4939.1	5131.0	5134.7	5138.5
12.5°	4762.3	4781.1	4762.3	4690.9	4608.1	4563.0	4675.8	4957.9	5251.4	5273.9	5368.0
15°	5296.5	5277.7	5240.1	5157.3	5029.4	4894.0	4811.2	5044.5	5424.4	5443.2	5650.1
17.5°	5766.7	5781.8	5759.2	5680.2	5529.7	5352.9	5100.9	5194.9	5608.7	5661.4	5951.0
20°	6278.3	6338.5	6308.4	6210.6	6086.5	5823.1	5507.2	5413.1	5811.8	5849.5	6263.3
22.5°	6868.9	6932.8	6876.4	6782.4	6680.8	6357.3	5951.0	5680.2	5981.1	6060.1	6564.2
25°	7576.1	7636.3	7583.6	7436.9	7309.0	6914.0	6428.8	5981.1	6146.6	6233.2	6808.7
27.5°	8136.6	8181.7	8230.6	8144.1	7948.5	7538.5	6925.3	6293.3	6312.2	6402.4	7034.4
30°	8636.9	8749.7	8791.1	8802.4	8636.9	8178.0	7433.1	6616.9	6455.1	6549.1	7260.1
32.5°	9321.5	9490.8	9423.1	9490.8	9393.0	8779.8	7959.8	6951.6	6639.4	6725.9	7474.5
35°	10322.1	10457.6	10280.8	10228.1	10070.1	9389.2	8467.6	7297.7	6883.9	6978.0	7677.7
37.5°	11398.0	11552.2	11296.4	11085.8	10784.8	9991.1	8904.0	7752.9	7222.5	7297.7	7865.7
40°	12338.4	12466.3	12244.4	11966.0	11461.9	10521.5	9280.2	8072.6	7561.0	7655.1	8083.9
42.5°	13207.4	13290.1	13041.9	12774.8	12101.4	10999.3	9686.4	8411.2	7956.0	8046.3	8260.7
45°	14087.6	14151.6	13805.5	13425.6	12635.6	11435.6	10134.1	8885.2	8535.3	8655.7	8546.6
47.5°	14245.6	14264.4	14204.2	13948.4	13056.9	11853.2	10687.0	9520.9	9419.3	9551.0	9039.4
50°	13151.0	13320.2	13692.6	13944.7	13226.2	12203.0	11240.0	10431.2	10638.1	10807.4	10062.6
52.5°	11025.6	11187.3	12048.8	13004.2	12819.9	12282.0	11834.4	11586.1	12357.2	12560.4	11454.4
55°	8783.6	8926.5	9836.9	11213.7	11507.1	11920.9	12470.1	13060.7	14550.3	14685.7	12981.7
57.5°	7233.8	7312.8	7963.6	9287.7	9757.9	10766.0	12812.4	14813.6	16781.0	16987.9	14309.6
60°	5932.2	6018.7	6504.0	7594.9	8219.3	9114.6	12541.6	16544.0	19444.3	19444.3	16013.6
62.5°	4465.2	4540.4	4991.8	5845.7	6895.2	7715.3	11676.4	17691.3	21453.1	21362.8	17247.5
65°	3065.8	3126.0	3453.3	4021.3	4965.5	6575.5	10495.2	17706.4	22784.7	22664.3	17774.1
66°	2573.0	2625.7	2904.0	3363.0	4156.7	5966.1	10077.6	17386.6	23063.1	22893.8	17552.2
67.5°	2031.3	2068.9	2253.3	2524.1	3047.0	4830.0	9419.3	16480.1	23036.7	22935.2	16987.9
70°	1452.0	1478.4	1613.8	1670.2	1801.9	2795.0	7482.1	14433.7	21189.7	21219.8	14768.5
72.5°	1124.8	1166.1	1248.9	1260.2	1230.1	1485.9	4540.4	12041.2	17334.0	17322.7	10961.6
75°	906.6	929.1	970.5	993.1	985.6	959.2	1922.2	8983.0	11932.2	12071.3	6139.1
77.5°	714.7	711.0	748.6	778.7	801.2	752.3	880.2	5266.4	6255.7	6078.9	2305.9
80°	526.6	526.6	579.3	590.6	624.4	632.0	586.8	2031.3	2147.9	1952.3	598.1
82.5°	346.1	346.1	402.5	410.0	443.9	492.8	425.1	609.4	594.4	564.3	270.8
85°	188.1	180.6	199.4	225.7	244.5	289.7	255.8	304.7	312.2	308.5	180.6
87.5°	37.6	33.9	52.7	60.2	67.7	90.3	82.8	124.1	173.0	169.3	79.0
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°	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4	4792.4
2.5°	4822.5	4818.8	4860.1	4909.0	4965.5	4999.3	5014.4	5040.7	5021.9	5029.4	5052.0
5°	4894.0	4905.3	4965.5	5029.4	5055.7	5036.9	4995.6	4980.5	4946.7	4939.1	4931.6
7.5°	4999.3	5018.1	5078.3	5093.4	5014.4	4882.7	4788.7	4736.0	4679.6	4664.5	4657.0
10°	5172.4	5183.6	5198.7	5044.5	4848.9	4672.0	4555.4	4506.5	4468.9	4438.8	4446.3
12.5°	5390.5	5383.0	5266.4	4946.7	4668.3	4487.7	4408.7	4378.6	4352.3	4333.5	4329.7
15°	5665.1	5612.5	5277.7	4811.2	4499.0	4348.5	4292.1	4280.8	4250.7	4250.7	4247.0
17.5°	5943.5	5808.1	5270.2	4668.3	4337.3	4254.5	4220.6	4213.1	4205.6	4201.8	4213.1
20°	6221.9	5981.1	5210.0	4491.5	4224.4	4175.5	4168.0	4171.7	4164.2	4175.5	4168.0
22.5°	6466.4	6094.0	5097.1	4303.4	4145.4	4141.6	4122.8	4130.4	4156.7	4160.5	4171.7
25°	6654.5	6135.4	4931.6	4130.4	4089.0	4081.5	4104.0	4134.1	4156.7	4160.5	4179.3
27.5°	6808.7	6112.8	4724.7	3994.9	3991.2	4032.6	4100.3	4111.6	4115.3	4115.3	4100.3
30°	6925.3	6063.9	4461.4	3844.5	3863.3	3964.8	4028.8	4028.8	3998.7	3991.2	4013.7
32.5°	6951.6	5999.9	4175.5	3690.2	3720.3	3840.7	3919.7	3893.4	3859.5	3859.5	3874.6
35°	6974.2	5913.4	3946.0	3479.6	3524.7	3667.7	3742.9	3690.2	3652.6	3641.3	3637.6
37.5°	6966.7	5879.6	3739.1	3212.5	3272.7	3411.9	3460.8	3411.9	3355.4	3329.1	3363.0
40°	6974.2	5857.0	3479.6	2919.1	2979.3	3062.0	3126.0	3088.4	3035.7	2968.0	3001.8
42.5°	7019.4	5887.1	3193.7	2633.2	2633.2	2678.3	2787.4	2761.1	2633.2	2606.9	2637.0
45°	7260.1	6048.8	2907.8	2347.3	2305.9	2336.0	2448.9	2336.0	2257.0	2257.0	2283.4
47.5°	7843.2	6349.8	2655.8	2095.3	1997.5	2057.7	2087.8	1982.4	1922.2	1907.2	1933.5
50°	9031.9	6951.6	2505.3	1888.4	1768.0	1813.1	1794.3	1790.6	1730.4	1737.9	1753.0
52.5°	10837.5	8125.3	2460.2	1786.8	1636.3	1647.6	1628.8	1636.3	1625.1	1662.7	1674.0
55°	12804.9	9362.9	2516.6	1801.9	1546.1	1467.1	1474.6	1512.2	1557.3	1617.5	1628.8
57.5°	14275.7	9983.6	2663.3	1903.4	1433.2	1312.8	1331.6	1403.1	1489.6	1538.5	1564.9
60°	15370.4	9908.4	2877.7	1929.8	1297.8	1173.7	1207.5	1312.8	1388.1	1429.5	1455.8
62.5°	15727.7	9438.1	2930.4	1737.9	1121.0	1042.0	1124.8	1233.8	1267.7	1312.8	1331.6
65°	15434.3	8772.3	2546.7	1410.6	985.6	944.2	1064.6	1147.3	1192.5	1215.0	1218.8
66°	15088.2	8373.6	2339.8	1282.7	936.7	914.1	1042.0	1109.7	1154.8	1151.1	1154.8
67.5°	14328.4	7538.5	2005.0	1102.2	865.2	869.0	1004.4	1049.5	1064.6	1053.3	1053.3
70°	11744.1	5307.8	1437.0	835.1	759.9	812.5	902.8	914.1	948.0	932.9	932.9
72.5°	7241.3	2606.9	963.0	639.5	677.1	759.9	756.1	793.7	872.7	895.3	910.3
75°	3558.6	1057.0	635.7	541.7	605.6	635.7	628.2	722.2	835.1	932.9	966.8
77.5°	1350.5	526.6	443.9	474.0	489.0	477.7	500.3	654.5	835.1	1011.9	1045.8
80°	417.6	364.9	349.8	391.2	368.6	349.8	376.2	541.7	707.2	767.4	767.4
82.5°	252.0	285.9	270.8	267.1	248.3	252.0	270.8	387.5	545.4	571.8	571.8
85°	176.8	188.1	154.2	146.7	142.9	139.2	139.2	225.7	323.5	319.7	331.0
87.5°	67.7	75.2	56.4	56.4	52.7	37.6	30.1	37.6	37.6	26.3	18.8
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)