

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: P1211353

Luminaire Tested: **ARCH4-250-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211353
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: ARCH4-250-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34387 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

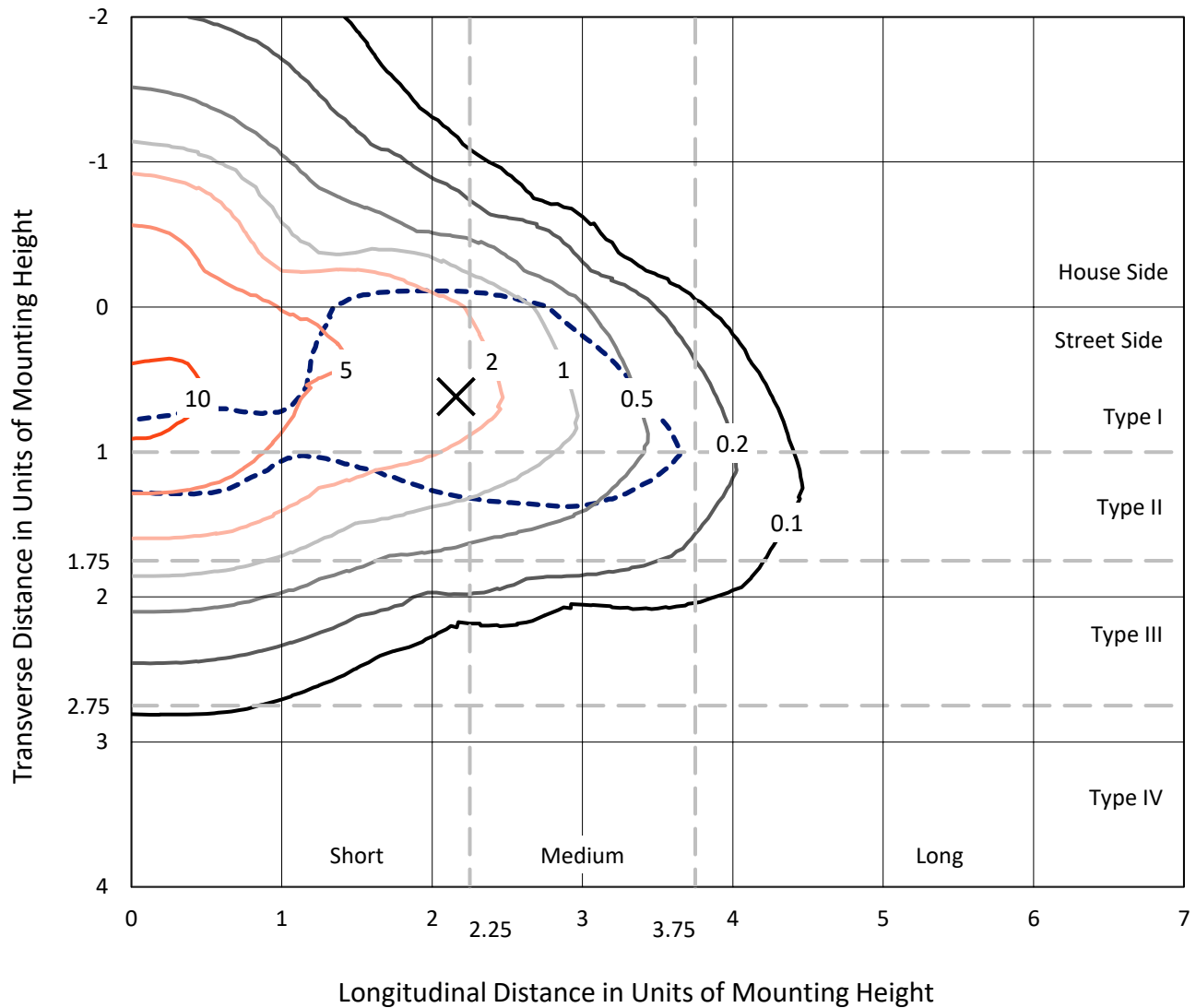
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

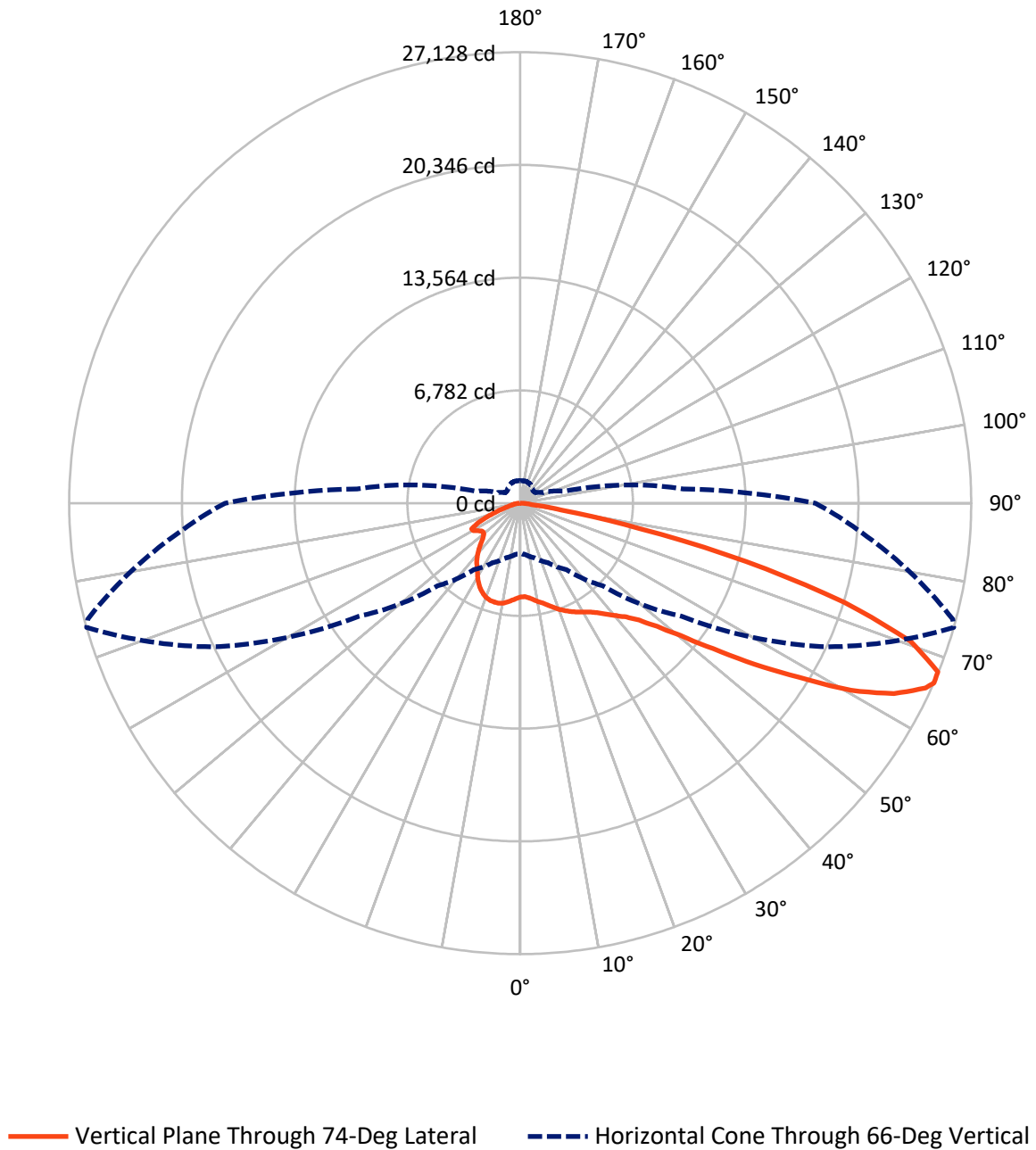


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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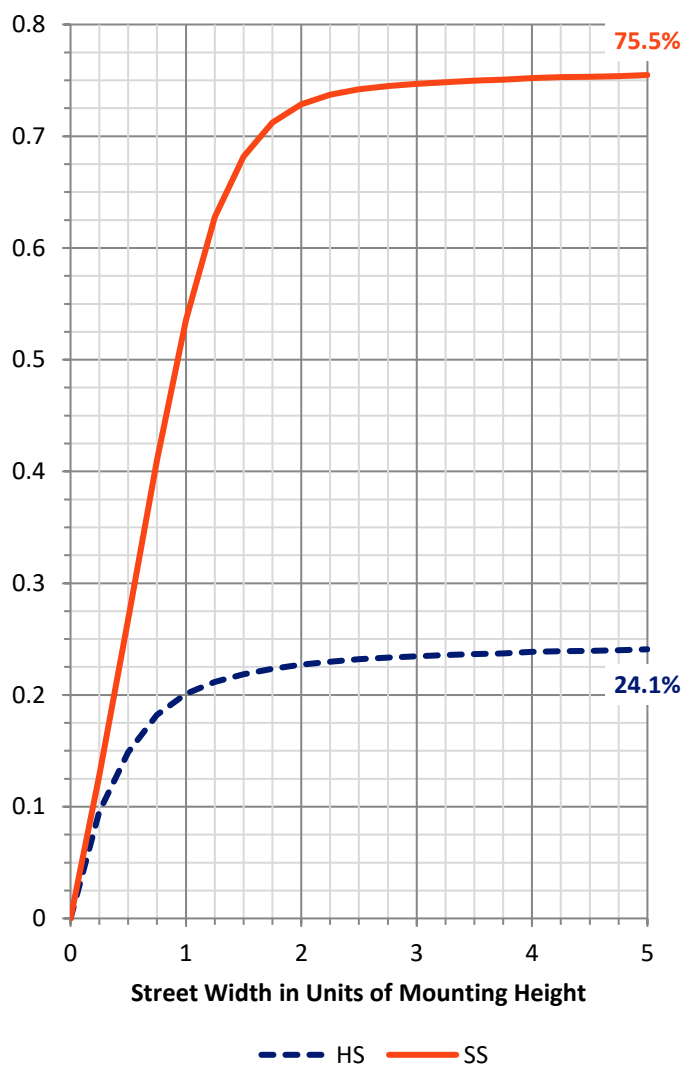
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8374.2	0.0	8374.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	26012.8	0.0	26012.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	34387.0	0.0	34387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.7	1.6
10°-20°	1653.6	4.8
20°-30°	3103.1	9.0
30°-40°	4773.3	13.9
40°-50°	6420.5	18.7
50°-60°	7593.0	22.1
60°-70°	7023.9	20.4
70°-80°	2954.9	8.6
80°-90°	327.0	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°	34387.0	100.0
0°-180°	34387.0	100.0

Coefficient of Utilization



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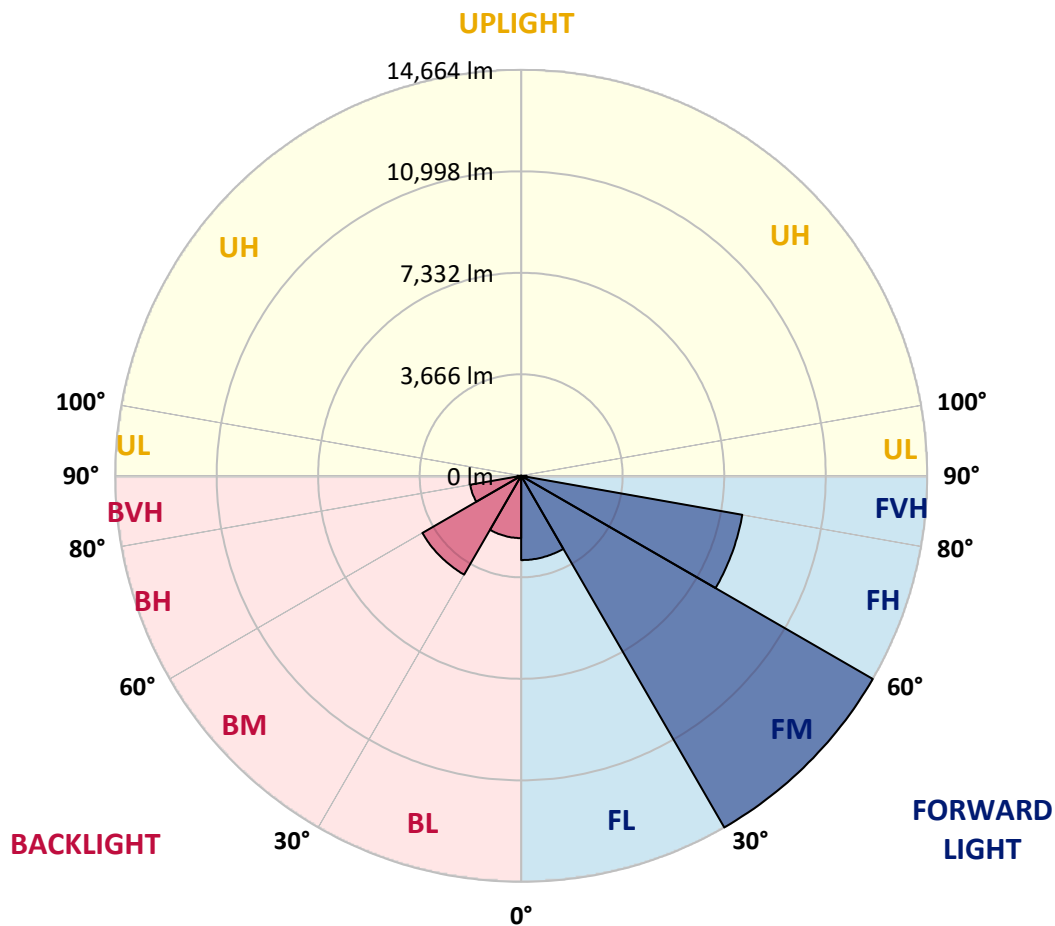
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3043.7	8.9			
FM	(30°-60°)	14664.1	42.6			
FH	(60°-80°)	8109.4	23.6			G4/12000
FVH	(80°-90°)	195.6	0.6			G2/225
BL	(0°-30°)	2250.8	6.5	B3/2500		
BM	(30°-60°)	4122.6	12.0	B3/5000		
BH	(60°-80°)	1869.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	131.4	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2
2.5°	5619.5	5610.6	5628.3	5654.9	5668.1	5646.0	5637.2	5632.7	5632.7	5619.5	5641.6
5°	5354.0	5349.6	5389.4	5438.1	5531.0	5597.3	5685.8	5738.9	5721.2	5694.7	5712.4
7.5°	5008.9	5000.0	5048.7	5141.6	5269.9	5415.9	5632.7	5800.9	5867.3	5858.4	5854.0
10°	5141.6	5132.7	5128.3	5101.8	5146.0	5287.6	5513.3	5809.7	6035.4	6039.8	6044.3
12.5°	5601.8	5623.9	5601.8	5517.7	5420.4	5367.3	5500.0	5831.9	6177.0	6203.5	6314.2
15°	6230.1	6208.0	6163.7	6066.4	5915.9	5756.6	5659.3	5933.6	6380.5	6402.7	6646.0
17.5°	6783.2	6800.9	6774.3	6681.4	6504.4	6296.5	6000.0	6110.6	6597.4	6659.3	7000.0
20°	7385.0	7455.8	7420.4	7305.3	7159.3	6849.6	6477.9	6367.3	6836.3	6880.5	7367.3
22.5°	8079.7	8154.9	8088.5	7977.9	7858.4	7477.9	7000.0	6681.4	7035.4	7128.3	7721.2
25°	8911.5	8982.3	8920.4	8747.8	8597.4	8132.7	7562.0	7035.4	7230.1	7331.9	8008.9
27.5°	9570.8	9623.9	9681.4	9579.7	9349.6	8867.3	8146.0	7402.7	7424.8	7531.0	8274.3
30°	10159.3	10292.0	10340.7	10354.0	10159.3	9619.5	8743.4	7783.2	7592.9	7703.5	8539.8
32.5°	10964.6	11163.7	11084.1	11163.7	11048.7	10327.4	9362.8	8177.0	7809.7	7911.5	8792.0
35°	12141.6	12300.9	12092.9	12031.0	11845.1	11044.3	9960.2	8584.1	8097.4	8208.0	9031.0
37.5°	13407.1	13588.5	13287.6	13039.8	12685.9	11752.2	10473.5	9119.5	8495.6	8584.1	9252.2
40°	14513.3	14663.7	14402.7	14075.2	13482.3	12376.1	10915.9	9495.6	8893.8	9004.4	9508.9
42.5°	15535.4	15632.8	15340.7	15026.6	14234.5	12938.1	11393.8	9893.8	9358.4	9464.6	9716.8
45°	16570.8	16646.0	16239.0	15792.0	14862.8	13451.3	11920.4	10451.3	10039.8	10181.4	10053.1
47.5°	16756.7	16778.8	16708.0	16407.1	15358.4	13942.5	12570.8	11199.1	11079.7	11234.5	10632.8
50°	15469.0	15668.2	16106.2	16402.7	15557.5	14354.0	13221.2	12269.9	12513.3	12712.4	11836.3
52.5°	12969.0	13159.3	14172.6	15296.5	15079.7	14446.9	13920.4	13628.3	14535.4	14774.3	13473.5
55°	10331.9	10500.0	11570.8	13190.3	13535.4	14022.1	14668.2	15362.8	17115.1	17274.3	15269.9
57.5°	8508.9	8601.8	9367.3	10924.8	11477.9	12663.7	15070.8	17424.8	19739.0	19982.3	16831.9
60°	6977.9	7079.7	7650.4	8933.6	9668.1	10721.2	14752.2	19460.2	22871.7	22871.7	18836.3
62.5°	5252.2	5340.7	5871.7	6876.1	8110.6	9075.2	13734.5	20809.8	25234.5	25128.3	20287.6
65°	3606.2	3677.0	4062.0	4730.1	5840.7	7734.5	12345.1	20827.5	26800.9	26659.3	20907.1
66°	3026.6	3088.5	3415.9	3955.8	4889.4	7017.7	11854.0	20451.3	27128.3	26929.2	20646.0
67.5°	2389.4	2433.6	2650.4	2969.0	3584.1	5681.4	11079.7	19385.0	27097.4	26977.9	19982.3
70°	1708.0	1738.9	1898.2	1964.6	2119.5	3287.6	8800.9	16977.9	24924.8	24960.2	17371.7
72.5°	1323.0	1371.7	1469.0	1482.3	1446.9	1747.8	5340.7	14163.7	20389.4	20376.1	12893.8
75°	1066.4	1092.9	1141.6	1168.1	1159.3	1128.3	2261.1	10566.4	14035.4	14199.1	7221.2
77.5°	840.7	836.3	880.5	915.9	942.5	885.0	1035.4	6194.7	7358.4	7150.4	2712.4
80°	619.5	619.5	681.4	694.7	734.5	743.4	690.3	2389.4	2526.6	2296.5	703.5
82.5°	407.1	407.1	473.5	482.3	522.1	579.6	500.0	716.8	699.1	663.7	318.6
85°	221.2	212.4	234.5	265.5	287.6	340.7	300.9	358.4	367.3	362.8	212.4
87.5°	44.2	39.8	61.9	70.8	79.6	106.2	97.3	146.0	203.5	199.1	92.9
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°	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2	5637.2
2.5°	5672.6	5668.1	5716.8	5774.3	5840.7	5880.5	5898.2	5929.2	5907.1	5915.9	5942.5
5°	5756.6	5769.9	5840.7	5915.9	5946.9	5924.8	5876.1	5858.4	5818.6	5809.7	5800.9
7.5°	5880.5	5902.7	5973.5	5991.2	5898.2	5743.4	5632.7	5570.8	5504.4	5486.7	5477.9
10°	6084.1	6097.3	6115.0	5933.6	5703.5	5495.6	5358.4	5300.9	5256.6	5221.2	5230.1
12.5°	6340.7	6331.9	6194.7	5818.6	5491.2	5278.8	5185.8	5150.4	5119.5	5097.3	5092.9
15°	6663.7	6601.8	6208.0	5659.3	5292.0	5115.0	5048.7	5035.4	5000.0	5000.0	4995.6
17.5°	6991.2	6831.9	6199.1	5491.2	5101.8	5004.4	4964.6	4955.8	4946.9	4942.5	4955.8
20°	7318.6	7035.4	6128.3	5283.2	4969.0	4911.5	4902.7	4907.1	4898.2	4911.5	4902.7
22.5°	7606.2	7168.1	5995.6	5062.0	4876.1	4871.7	4849.6	4858.4	4889.4	4893.8	4907.1
25°	7827.4	7216.8	5800.9	4858.4	4809.7	4800.9	4827.4	4862.8	4889.4	4893.8	4915.9
27.5°	8008.9	7190.3	5557.5	4699.1	4694.7	4743.4	4823.0	4836.3	4840.7	4840.7	4823.0
30°	8146.0	7132.7	5247.8	4522.1	4544.3	4663.7	4738.9	4738.9	4703.5	4694.7	4721.2
32.5°	8177.0	7057.5	4911.5	4340.7	4376.1	4517.7	4610.6	4579.6	4539.8	4539.8	4557.5
35°	8203.5	6955.8	4641.6	4092.9	4146.0	4314.2	4402.7	4340.7	4296.5	4283.2	4278.8
37.5°	8194.7	6915.9	4398.2	3778.8	3849.6	4013.3	4070.8	4013.3	3946.9	3915.9	3955.8
40°	8203.5	6889.4	4092.9	3433.6	3504.4	3601.8	3677.0	3632.7	3570.8	3491.2	3531.0
42.5°	8256.6	6924.8	3756.6	3097.3	3097.3	3150.4	3278.8	3247.8	3097.3	3066.4	3101.8
45°	8539.8	7115.0	3420.4	2761.1	2712.4	2747.8	2880.5	2747.8	2654.9	2654.9	2685.8
47.5°	9225.7	7469.0	3123.9	2464.6	2349.6	2420.4	2455.8	2331.9	2261.1	2243.4	2274.3
50°	10623.9	8177.0	2946.9	2221.2	2079.6	2132.7	2110.6	2106.2	2035.4	2044.2	2061.9
52.5°	12747.8	9557.5	2893.8	2101.8	1924.8	1938.1	1915.9	1924.8	1911.5	1955.8	1969.0
55°	15062.0	11013.3	2960.2	2119.5	1818.6	1725.7	1734.5	1778.8	1831.9	1902.7	1915.9
57.5°	16792.0	11743.4	3132.7	2238.9	1685.8	1544.2	1566.4	1650.4	1752.2	1809.7	1840.7
60°	18079.7	11654.9	3385.0	2269.9	1526.5	1380.5	1420.4	1544.2	1632.7	1681.4	1712.4
62.5°	18500.0	11101.8	3446.9	2044.2	1318.6	1225.7	1323.0	1451.3	1491.2	1544.2	1566.4
65°	18154.9	10318.6	2995.6	1659.3	1159.3	1110.6	1252.2	1349.6	1402.7	1429.2	1433.6
66°	17747.8	9849.6	2752.2	1508.9	1101.8	1075.2	1225.7	1305.3	1358.4	1354.0	1358.4
67.5°	16854.0	8867.3	2358.4	1296.5	1017.7	1022.1	1181.4	1234.5	1252.2	1238.9	1238.9
70°	13814.2	6243.4	1690.3	982.3	893.8	955.8	1061.9	1075.2	1115.0	1097.3	1097.3
72.5°	8517.7	3066.4	1132.7	752.2	796.5	893.8	889.4	933.6	1026.5	1053.1	1070.8
75°	4185.8	1243.4	747.8	637.2	712.4	747.8	738.9	849.6	982.3	1097.3	1137.2
77.5°	1588.5	619.5	522.1	557.5	575.2	561.9	588.5	769.9	982.3	1190.3	1230.1
80°	491.2	429.2	411.5	460.2	433.6	411.5	442.5	637.2	831.9	902.7	902.7
82.5°	296.5	336.3	318.6	314.2	292.0	296.5	318.6	455.8	641.6	672.6	672.6
85°	208.0	221.2	181.4	172.6	168.1	163.7	163.7	265.5	380.5	376.1	389.4
87.5°	79.6	88.5	66.4	66.4	61.9	44.2	35.4	44.2	44.2	31.0	22.1
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)