

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: P1211511

Luminaire Tested: **ARCH4-300-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211511
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: ARCH4-300-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35414 lumens
Efficiency: N/A
Efficacy: 118.4 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): 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

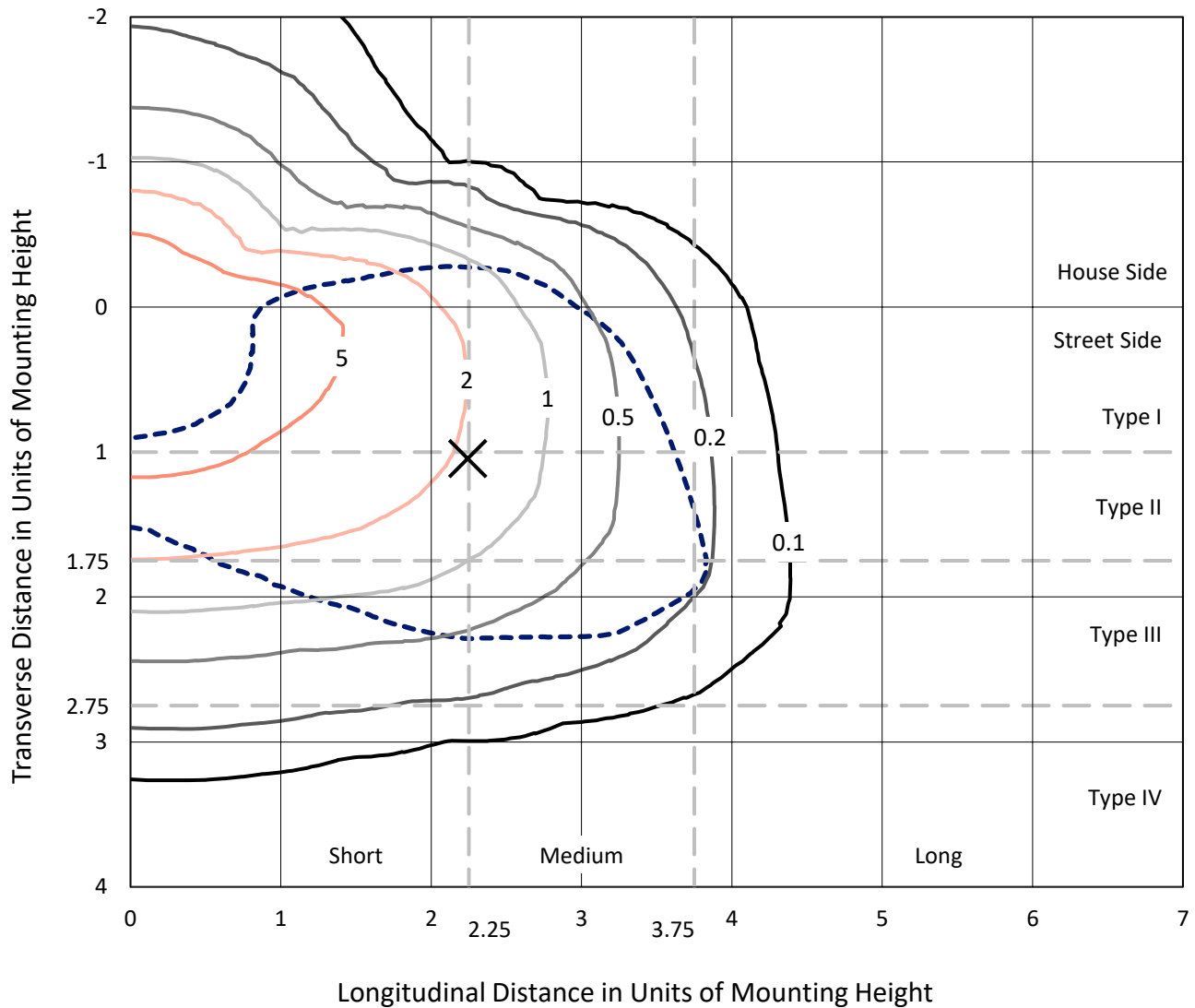


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Iso-Footcandle Lines of Horizontal Illumination

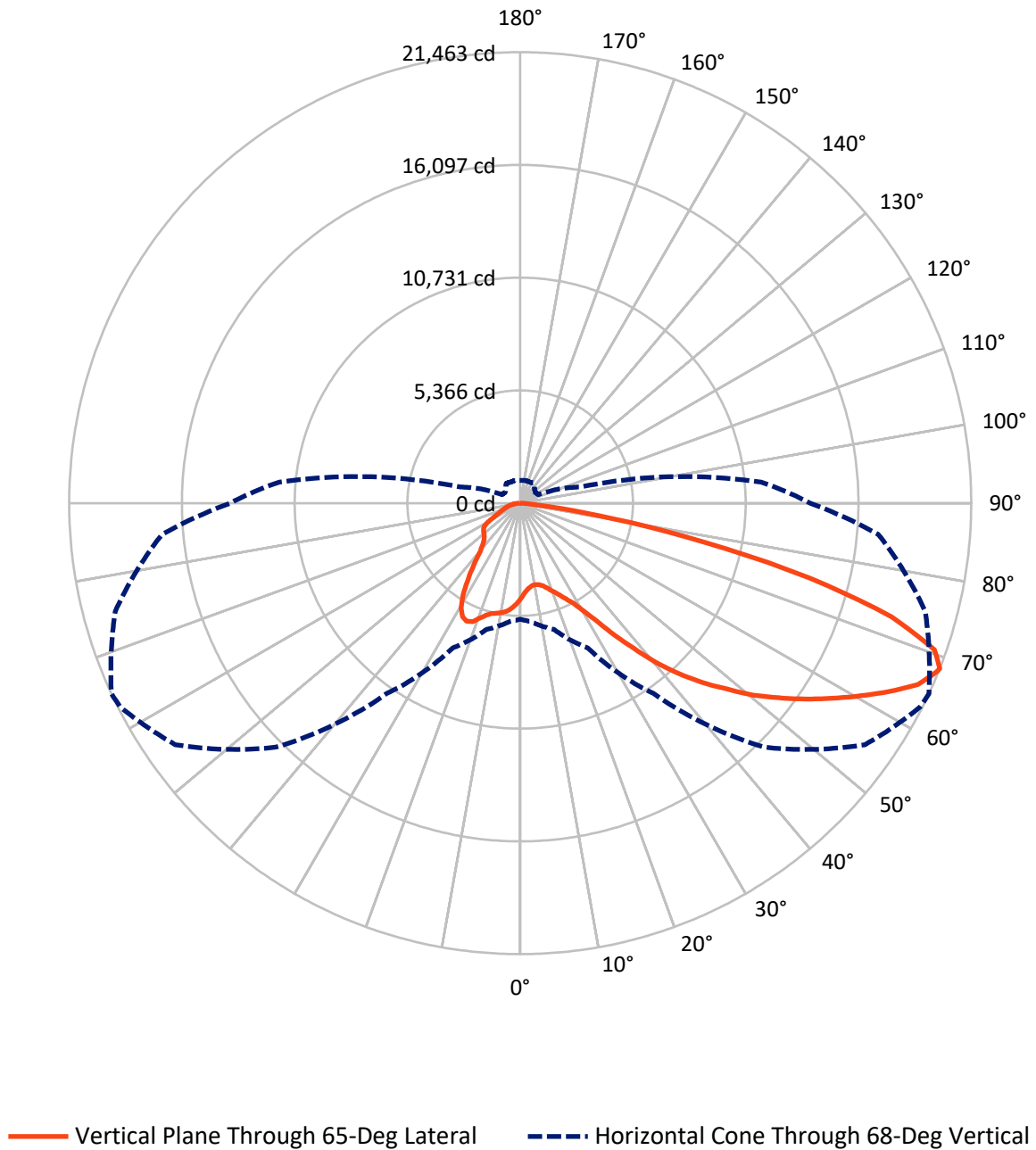
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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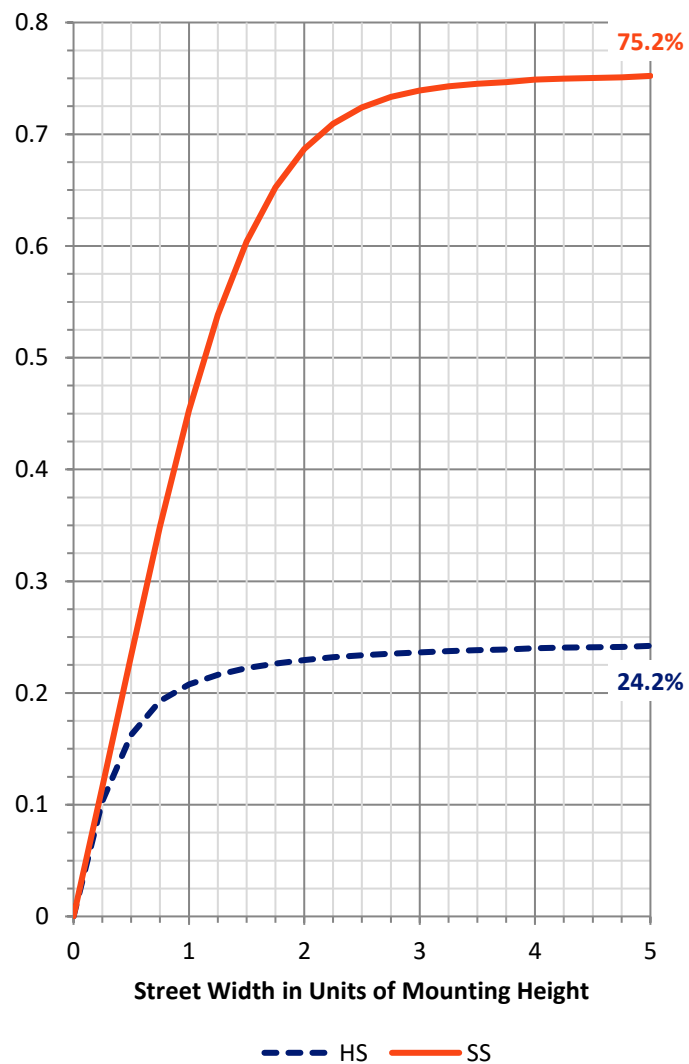
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8682.5	0.0	8682.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	26731.5	0.0	26731.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	35414.0	0.0	35414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.5	1.2
10°-20°	1408.2	4.0
20°-30°	2548.8	7.2
30°-40°	4009.5	11.3
40°-50°	5971.6	16.9
50°-60°	7833.6	22.1
60°-70°	8566.5	24.2
70°-80°	4239.0	12.0
80°-90°	404.4	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°	35414.0	100.0
0°-180°	35414.0	100.0

Coefficient of Utilization



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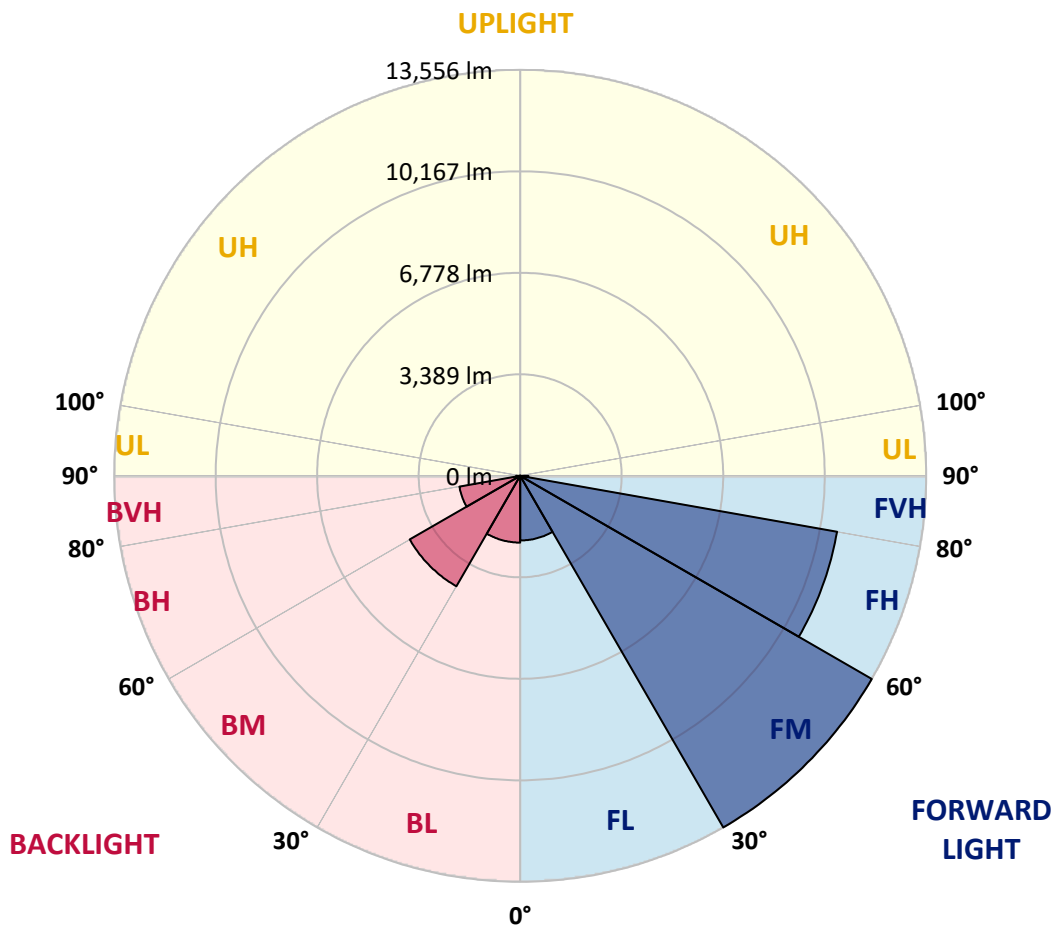
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2158.9	6.1			
FM	(30°-60°)	13556.0	38.3			
FH	(60°-80°)	10744.7	30.3			G4/12000
FVH	(80°-90°)	272.0	0.8			G3/500
BL	(0°-30°)	2230.6	6.3	B3/2500		
BM	(30°-60°)	4258.7	12.0	B3/5000		
BH	(60°-80°)	2060.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	132.4	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5
2.5°	3950.1	3941.0	3963.8	3986.6	4036.9	4096.2	4178.4	4246.9	4256.1	4383.9	4484.4
5°	3717.2	3703.5	3726.3	3753.7	3776.6	3849.6	3936.4	4036.9	4078.0	4265.2	4479.8
7.5°	3740.0	3735.5	3744.6	3735.5	3735.5	3767.4	3826.8	3927.3	3972.9	4196.7	4502.6
10°	3872.5	3881.6	3886.2	3858.8	3831.4	3817.7	3835.9	3904.4	3936.4	4201.3	4603.1
12.5°	4091.7	4105.4	4109.9	4059.7	4023.2	3963.8	3931.8	3959.2	3982.1	4246.9	4744.7
15°	4388.5	4397.6	4365.6	4333.7	4242.4	4169.3	4091.7	4068.8	4078.0	4342.8	4904.5
17.5°	4735.5	4721.8	4721.8	4644.2	4525.5	4411.3	4283.4	4265.2	4265.2	4498.1	5132.8
20°	5114.6	5128.3	5087.2	4982.1	4863.4	4685.3	4557.4	4475.2	4484.4	4676.2	5411.4
22.5°	5662.6	5685.4	5575.8	5425.1	5242.4	5036.9	4854.3	4721.8	4726.4	4909.1	5699.1
25°	6251.6	6260.8	6192.3	5991.4	5744.8	5452.5	5210.5	5041.5	5036.9	5169.4	6069.0
27.5°	6854.4	6895.5	6758.5	6566.7	6338.4	5973.1	5653.4	5425.1	5388.6	5566.7	6530.2
30°	7475.5	7525.7	7393.3	7206.1	6922.9	6612.4	6233.4	5968.5	5945.7	6183.1	7146.7
32.5°	8101.1	8114.8	8009.8	7854.5	7598.8	7306.5	7000.6	6708.3	6685.5	7073.6	7945.8
35°	8612.6	8653.7	8580.6	8544.1	8356.8	8087.4	7790.6	7621.6	7681.0	8178.7	8982.5
37.5°	9229.1	9270.2	9188.0	9178.8	9119.5	8886.6	8681.1	8694.8	8754.1	9430.0	10073.9
40°	10119.5	10165.2	9955.1	9863.8	9863.8	9635.5	9567.0	9891.2	9968.8	10663.0	11210.9
42.5°	10873.0	10946.1	10822.8	10763.4	10585.3	10425.5	10507.7	10964.4	11096.8	11841.1	12201.9
45°	11238.3	11293.1	11439.3	11612.8	11439.3	11160.7	11471.2	11987.3	12174.5	12928.0	13192.8
47.5°	11434.7	11484.9	11653.9	12119.7	12238.4	12005.5	12443.9	13087.8	13215.7	14005.7	14138.1
50°	11462.1	11621.9	11841.1	12306.9	12850.3	12882.3	13421.2	14206.6	14357.3	15065.1	14969.2
52.5°	11238.3	11302.3	11754.4	12539.8	13142.6	13690.6	14485.2	15279.8	15389.4	16060.7	15704.5
55°	10873.0	10964.4	11416.4	12485.0	13425.7	14457.8	15567.5	16334.6	16457.9	17028.8	16384.9
57.5°	10544.2	10589.9	11074.0	12325.2	13708.9	15225.0	16531.0	17435.2	17517.4	17878.2	16887.2
60°	10178.9	10229.1	10713.2	11982.7	13918.9	15804.9	17535.7	18544.9	18617.9	18773.2	17471.7
62.5°	9233.6	9366.1	9973.4	11416.4	13864.1	16467.1	18608.8	19640.9	19732.2	19563.2	17933.0
65°	7498.3	7685.6	8429.9	10133.2	13352.7	16896.3	19485.6	20650.1	20805.3	20156.9	18056.2
67.5°	5822.4	5954.8	6553.0	8041.7	11558.0	16681.7	20051.8	21344.2	21389.9	20061.0	17371.3
68°	5521.0	5653.4	6224.2	7603.4	11060.3	16426.0	20038.1	21362.5	21462.9	19955.9	17106.4
70°	4224.1	4374.8	4918.2	6023.3	8914.0	14800.3	19202.5	20924.1	20910.4	18686.4	15462.4
72.5°	2639.5	2726.2	3100.7	3799.4	5895.5	11261.2	16298.1	18453.5	18490.1	15234.1	11859.4
75°	1675.9	1675.9	1657.7	1840.3	3023.1	6416.0	12115.1	14206.6	14234.0	10667.5	7475.5
77.5°	1456.7	1415.6	1219.3	1032.0	1205.6	2493.4	7169.5	9174.3	9023.6	5744.8	3548.2
80°	1228.4	1159.9	1000.1	831.1	776.3	780.9	2753.6	4657.9	4457.0	2068.7	1178.2
82.5°	885.9	826.6	753.5	653.0	598.2	465.8	575.4	1347.1	1315.2	598.2	383.6
85°	479.5	433.8	424.7	429.3	360.8	287.7	242.0	296.8	296.8	260.3	219.2
87.5°	169.0	123.3	146.1	164.4	141.6	118.7	95.9	114.2	118.7	114.2	105.0
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°	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5
2.5°	4543.7	4589.4	4699.0	4794.9	4863.4	4922.8	4954.7	4968.4	5000.4	5005.0	4995.8
5°	4580.3	4699.0	4863.4	5005.0	5082.6	5114.6	5123.7	5128.3	5114.6	5123.7	5114.6
7.5°	4676.2	4826.9	5059.8	5183.1	5196.8	5146.5	5151.1	5132.8	5151.1	5169.4	5169.4
10°	4822.3	5014.1	5233.3	5279.0	5219.6	5192.2	5247.0	5356.6	5393.1	5443.4	5443.4
12.5°	5014.1	5242.4	5397.7	5356.6	5301.8	5393.1	5553.0	5662.6	5699.1	5717.4	5703.7
15°	5233.3	5479.9	5557.5	5420.5	5521.0	5717.4	5772.2	5708.2	5616.9	5575.8	5598.6
17.5°	5511.9	5717.4	5671.7	5580.4	5808.7	5836.1	5658.0	5452.5	5306.4	5251.6	5288.1
20°	5804.1	5982.2	5772.2	5813.3	5954.8	5662.6	5324.6	5059.8	4931.9	4909.1	4945.6
22.5°	6114.6	6228.8	5872.6	6082.7	5872.6	5279.0	4872.5	4735.5	4703.6	4740.1	4772.1
25°	6466.3	6452.6	6046.1	6164.9	5566.7	4808.6	4566.6	4557.4	4557.4	4580.3	4625.9
27.5°	6863.6	6648.9	6219.7	6055.3	5036.9	4420.4	4374.8	4379.3	4365.6	4370.2	4393.0
30°	7324.8	6913.8	6411.5	5694.5	4443.3	4128.2	4109.9	4096.2	4064.3	4055.1	4064.3
32.5°	7904.7	7192.4	6607.8	5100.9	3922.7	3826.8	3817.7	3744.6	3667.0	3657.8	3689.8
35°	8640.0	7699.3	6708.3	4356.5	3493.4	3488.9	3456.9	3342.7	3242.3	3242.3	3219.4
37.5°	9480.2	8352.3	6749.4	3630.4	3137.2	3160.1	3068.7	2922.6	2845.0	2799.3	2813.0
40°	10338.7	9096.6	6744.8	2995.7	2826.7	2831.3	2762.8	2584.7	2392.9	2278.7	2306.1
42.5°	11165.3	9772.5	6626.1	2657.7	2575.5	2561.9	2507.1	2265.0	2105.2	2013.9	2018.4
45°	11827.4	10471.2	6443.4	2456.8	2347.2	2370.1	2246.8	2100.6	1954.5	1872.3	1867.7
47.5°	12489.6	11000.9	6151.2	2333.5	2178.3	2137.2	2086.9	1986.5	1876.9	1785.5	1790.1
50°	13092.4	11453.0	5877.2	2251.3	2023.0	1918.0	1927.1	1867.7	1771.8	1689.6	1685.1
52.5°	13517.1	11749.8	5726.5	2205.7	1835.8	1721.6	1753.6	1721.6	1630.3	1570.9	1566.3
55°	13941.8	11978.1	5776.7	2146.3	1630.3	1538.9	1593.7	1584.6	1534.4	1516.1	1520.7
57.5°	14284.3	12151.7	5954.8	2036.7	1433.9	1379.1	1470.4	1443.0	1406.5	1411.1	1411.1
60°	14617.6	12375.4	6164.9	1785.5	1264.9	1269.5	1356.3	1306.0	1283.2	1324.3	1328.9
62.5°	14964.7	12617.5	5991.4	1420.2	1118.8	1150.8	1251.2	1210.1	1219.3	1278.6	1296.9
65°	14923.6	12594.6	4881.7	1164.5	990.9	1054.9	1205.6	1191.9	1196.4	1219.3	1228.4
67.5°	14083.3	11790.9	3356.4	990.9	899.6	977.2	1169.0	1114.2	1118.8	1105.1	1109.7
68°	13800.2	11507.8	2959.1	963.5	881.3	959.0	1150.8	1100.5	1105.1	1091.4	1086.8
70°	12256.7	9854.7	1872.3	849.4	817.4	908.7	1059.4	1041.2	1036.6	1027.5	1027.5
72.5°	9343.2	7274.6	986.4	735.2	744.4	831.1	945.3	981.8	959.0	963.5	990.9
75°	6187.7	4374.8	685.0	630.2	653.0	712.4	840.3	913.3	890.5	904.2	890.5
77.5°	3274.2	2356.4	548.0	534.3	534.3	575.4	694.1	808.3	808.3	799.2	785.5
80°	1073.1	831.1	438.4	420.1	429.3	452.1	557.1	662.2	675.9	657.6	648.5
82.5°	360.8	383.6	328.8	306.0	315.1	333.4	420.1	506.9	511.5	474.9	465.8
85°	223.8	255.7	205.5	200.9	200.9	205.5	255.7	278.6	255.7	228.3	237.5
87.5°	105.0	127.9	95.9	82.2	68.5	59.4	45.7	18.3	18.3	9.1	9.1
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)