

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: P1211455

Luminaire Tested: **ARCH4-280-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211455
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: ARCH4-280-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38628 lumens
Efficiency: N/A
Efficacy: 138.1 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): 279.7
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



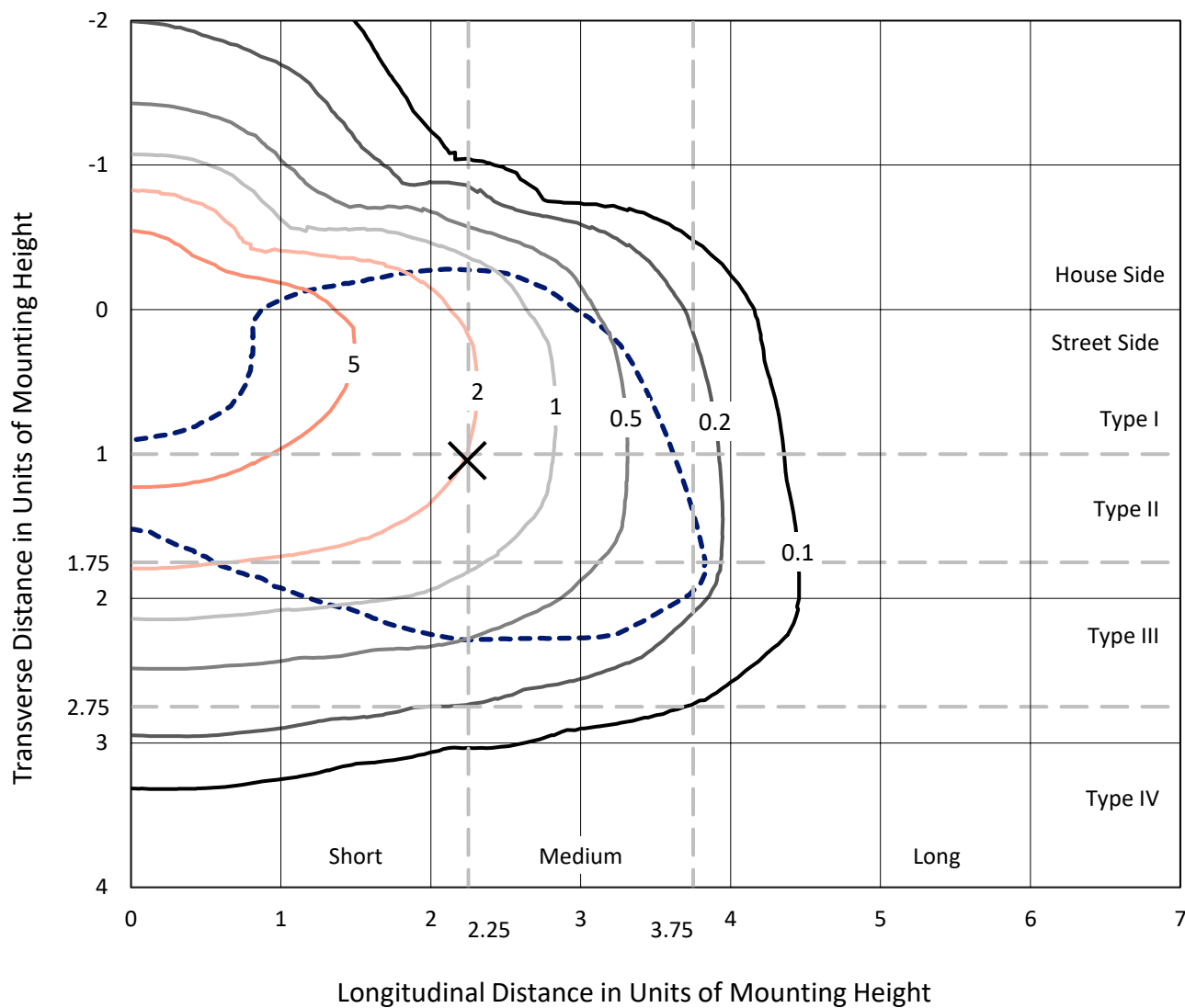
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

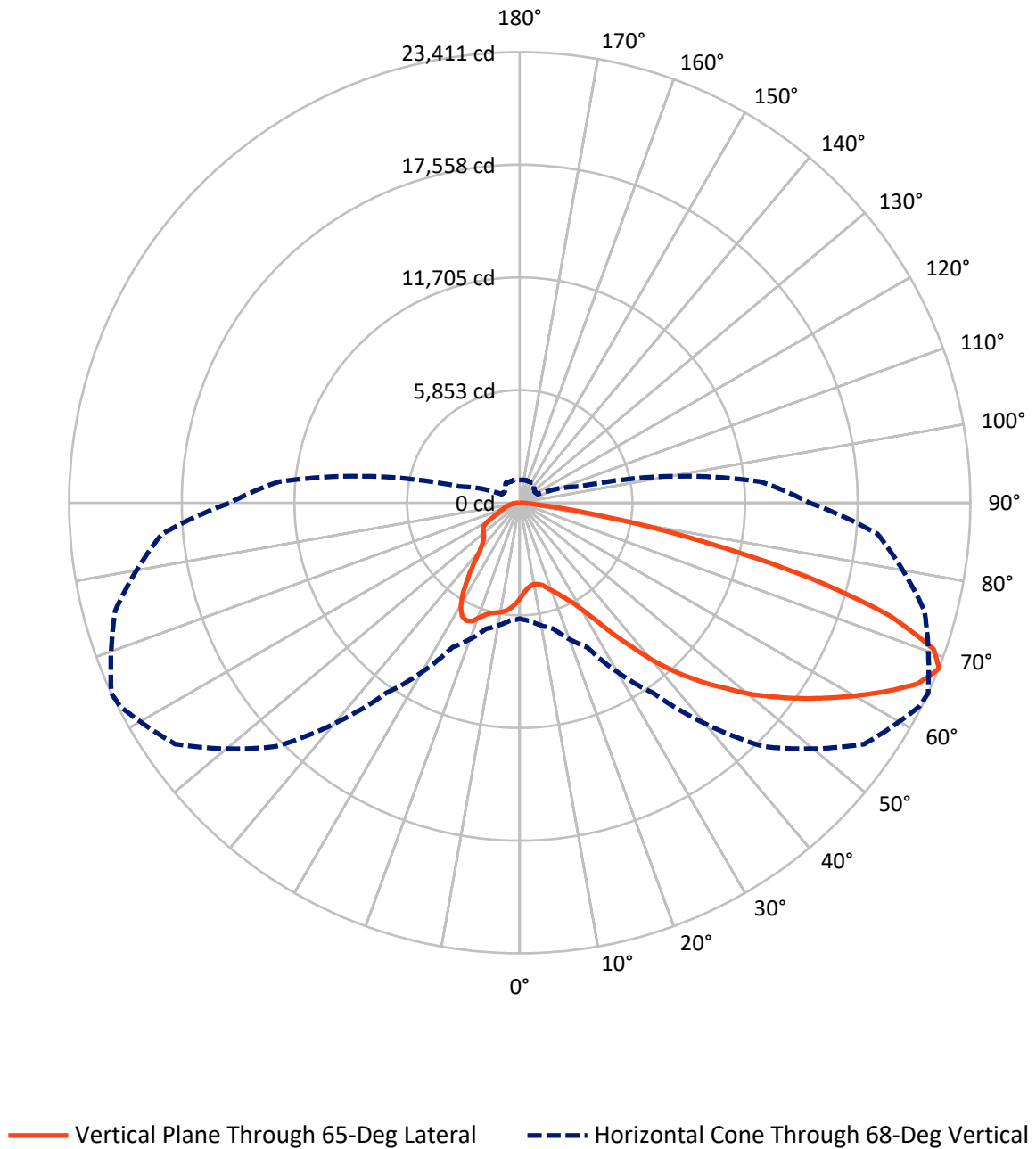


Based on 25 foot mounting height. Maximum calculated value = 9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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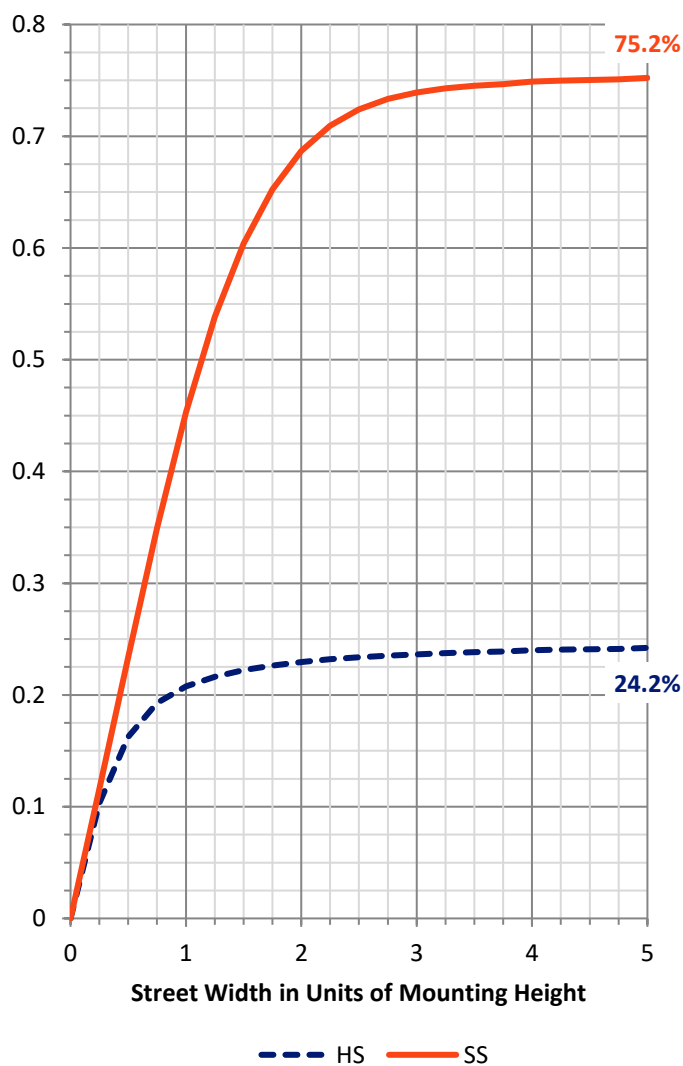
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9470.4	0.0	9470.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	29157.6	0.0	29157.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	38628.0	0.0	38628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.8	1.2
10°-20°	1536.0	4.0
20°-30°	2780.1	7.2
30°-40°	4373.3	11.3
40°-50°	6513.6	16.9
50°-60°	8544.5	22.1
60°-70°	9344.0	24.2
70°-80°	4623.7	12.0
80°-90°	441.0	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°	38628.0	100.0
0°-180°	38628.0	100.0

Coefficient of Utilization



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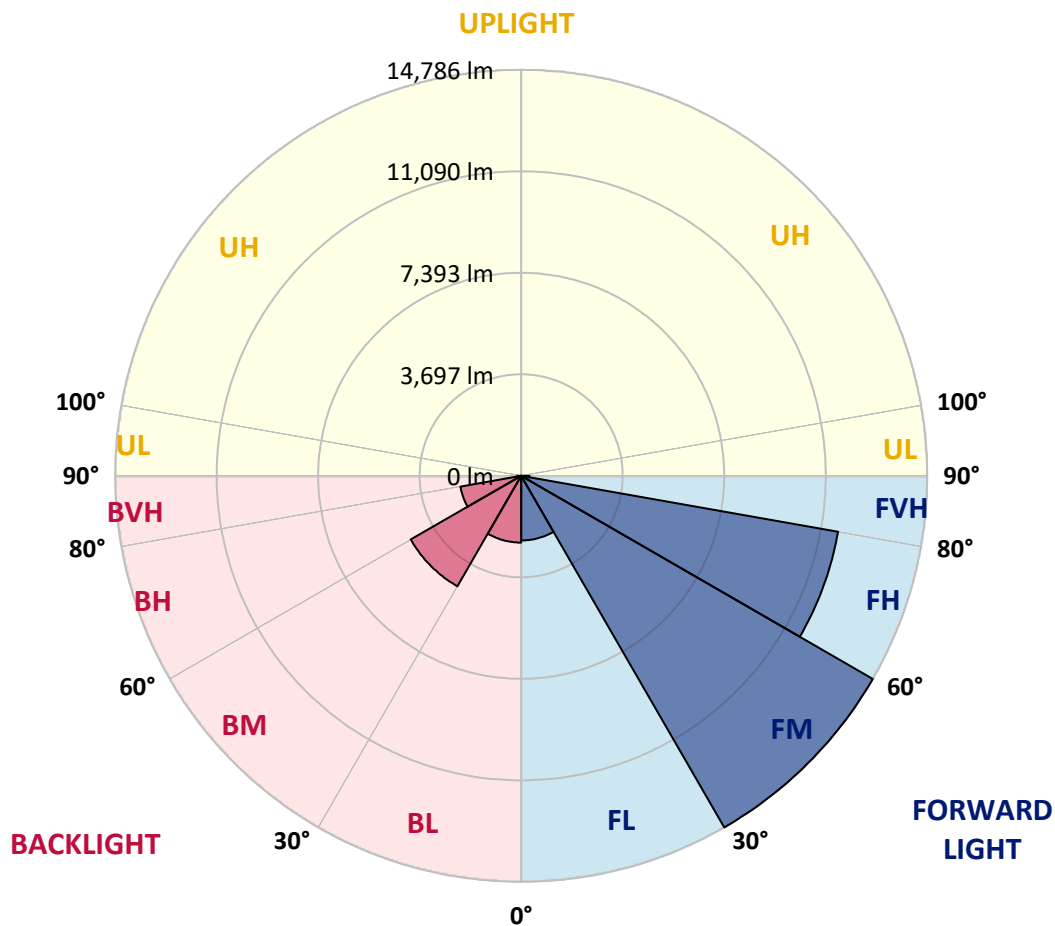
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2354.8	6.1			
FM	(30°-60°)	14786.3	38.3			
FH	(60°-80°)	11719.8	30.3			G4/12000
FVH	(80°-90°)	296.6	0.8			G3/500
BL	(0°-30°)	2433.0	6.3	B3/2500		
BM	(30°-60°)	4645.2	12.0	B3/5000		
BH	(60°-80°)	2247.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	144.4	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°	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2
2.5°	4308.6	4298.6	4323.5	4348.4	4403.2	4468.0	4557.6	4632.3	4642.3	4781.8	4891.4
5°	4054.5	4039.6	4064.5	4094.4	4119.3	4199.0	4293.6	4403.2	4448.0	4652.3	4886.4
7.5°	4079.5	4074.5	4084.4	4074.5	4074.5	4109.3	4174.1	4283.7	4333.5	4577.6	4911.3
10°	4223.9	4233.9	4238.8	4209.0	4179.1	4164.1	4184.1	4258.8	4293.6	4582.5	5020.9
12.5°	4463.0	4477.9	4482.9	4428.1	4388.3	4323.5	4288.7	4318.5	4343.4	4632.3	5175.3
15°	4786.8	4796.7	4761.9	4727.0	4627.4	4547.7	4463.0	4438.1	4448.0	4736.9	5349.6
17.5°	5165.3	5150.4	5150.4	5065.7	4936.2	4811.7	4672.2	4652.3	4652.3	4906.3	5598.7
20°	5578.7	5593.7	5548.9	5434.3	5304.8	5110.5	4971.1	4881.4	4891.4	5100.6	5902.5
22.5°	6176.5	6201.4	6081.8	5917.4	5718.2	5494.1	5294.8	5150.4	5155.4	5354.6	6216.3
25°	6819.0	6829.0	6754.3	6535.1	6266.1	5947.3	5683.3	5499.0	5494.1	5638.5	6619.8
27.5°	7476.5	7521.3	7371.9	7162.7	6913.7	6515.2	6166.5	5917.4	5877.6	6071.9	7122.9
30°	8153.9	8208.7	8064.3	7860.0	7551.2	7212.5	6799.1	6510.2	6485.3	6744.3	7795.3
32.5°	8836.3	8851.3	8736.7	8567.4	8288.4	7969.6	7635.9	7317.1	7292.2	7715.6	8667.0
35°	9394.2	9439.0	9359.3	9319.5	9115.3	8821.4	8497.6	8313.3	8378.1	8921.0	9797.7
37.5°	10066.6	10111.5	10021.8	10011.8	9947.1	9693.1	9468.9	9483.9	9548.6	10285.8	10988.1
40°	11037.9	11087.7	10858.6	10759.0	10759.0	10509.9	10435.2	10788.9	10873.6	11630.7	12228.4
42.5°	11859.8	11939.5	11805.0	11740.3	11546.0	11371.7	11461.3	11959.4	12103.9	12915.8	13309.3
45°	12258.3	12318.1	12477.4	12666.7	12477.4	12173.6	12512.3	13075.2	13279.4	14101.3	14390.2
47.5°	12472.5	12527.3	12711.6	13219.6	13349.1	13095.1	13573.3	14275.6	14415.1	15276.8	15421.2
50°	12502.4	12676.7	12915.8	13423.8	14016.6	14051.5	14639.2	15495.9	15660.3	16432.4	16327.8
52.5°	12258.3	12328.0	12821.1	13677.9	14335.4	14933.1	15799.8	16666.5	16786.0	17518.2	17129.7
55°	11859.8	11959.4	12452.5	13618.1	14644.2	15769.9	16980.3	17817.1	17951.6	18574.2	17871.9
57.5°	11501.2	11551.0	12079.0	13443.8	14953.0	16606.7	18031.3	19017.5	19107.2	19500.7	18419.8
60°	11102.7	11157.5	11685.5	13070.2	15182.1	17239.3	19127.1	20227.9	20307.6	20477.0	19057.4
62.5°	10071.6	10216.1	10878.5	12452.5	15122.4	17961.6	20297.6	21423.4	21523.0	21338.7	19560.5
65°	8178.8	8383.1	9195.0	11052.9	14564.5	18429.8	21254.0	22524.2	22693.5	21986.2	19694.9
67.5°	6350.8	6495.2	7147.8	8771.6	12607.0	18195.7	21871.6	23281.3	23331.1	21881.6	18947.8
68°	6022.1	6166.5	6789.1	8293.4	12064.0	17916.7	21856.7	23301.2	23410.8	21767.0	18658.9
70°	4607.4	4771.8	5364.6	6570.0	9722.9	16143.5	20945.2	22823.0	22808.1	20382.3	16865.7
72.5°	2879.0	2973.7	3382.1	4144.2	6430.5	12283.2	17777.3	20128.3	20168.1	16616.7	12935.7
75°	1828.0	1828.0	1808.1	2007.4	3297.4	6998.3	13214.6	15495.9	15525.8	11635.7	8153.9
77.5°	1588.9	1544.1	1329.9	1125.7	1315.0	2719.6	7820.2	10006.9	9842.5	6266.1	3870.3
80°	1339.9	1265.2	1090.8	906.5	846.8	851.8	3003.6	5080.6	4861.5	2256.4	1285.1
82.5°	966.3	901.6	821.9	712.3	652.5	508.1	627.6	1469.4	1434.5	652.5	418.4
85°	523.0	473.2	463.2	468.2	393.5	313.8	264.0	323.8	323.8	283.9	239.1
87.5°	184.3	134.5	159.4	179.3	154.4	129.5	104.6	124.5	129.5	124.5	114.6
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°	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2
2.5°	4956.1	5005.9	5125.5	5230.1	5304.8	5369.5	5404.4	5419.3	5454.2	5459.2	5449.2
5°	4996.0	5125.5	5304.8	5459.2	5543.9	5578.7	5588.7	5593.7	5578.7	5588.7	5578.7
7.5°	5100.6	5264.9	5519.0	5653.5	5668.4	5613.6	5618.6	5598.7	5618.6	5638.5	5638.5
10°	5260.0	5469.2	5708.2	5758.1	5693.3	5663.4	5723.2	5842.7	5882.6	5937.4	5937.4
12.5°	5469.2	5718.2	5887.6	5842.7	5783.0	5882.6	6056.9	6176.5	6216.3	6236.2	6221.3
15°	5708.2	5977.2	6061.9	5912.5	6022.1	6236.2	6296.0	6226.3	6126.7	6081.8	6106.7
17.5°	6012.1	6236.2	6186.4	6086.8	6335.9	6365.7	6171.5	5947.3	5787.9	5728.2	5768.0
20°	6330.9	6525.1	6296.0	6340.8	6495.2	6176.5	5807.9	5519.0	5379.5	5354.6	5394.4
22.5°	6669.6	6794.1	6405.6	6634.7	6405.6	5758.1	5314.7	5165.3	5130.4	5170.3	5205.2
25°	7053.1	7038.2	6594.9	6724.4	6071.9	5245.0	4981.0	4971.1	4971.1	4996.0	5045.8
27.5°	7486.5	7252.4	6784.1	6604.8	5494.1	4821.6	4771.8	4776.8	4761.9	4766.8	4791.7
30°	7989.6	7541.3	6993.3	6211.3	4846.5	4502.8	4482.9	4468.0	4433.1	4423.1	4433.1
32.5°	8622.1	7845.1	7207.5	5563.8	4278.7	4174.1	4164.1	4084.4	3999.8	3989.8	4024.7
35°	9424.1	8398.0	7317.1	4751.9	3810.5	3805.5	3770.6	3646.1	3536.5	3536.5	3511.6
37.5°	10340.6	9110.3	7361.9	3959.9	3422.0	3446.9	3347.2	3187.9	3103.2	3053.4	3068.3
40°	11277.0	9922.2	7357.0	3267.5	3083.3	3088.2	3013.5	2819.3	2610.1	2485.5	2515.4
42.5°	12178.6	10659.4	7227.5	2899.0	2809.3	2794.4	2734.6	2470.6	2296.2	2196.6	2201.6
45°	12900.8	11421.5	7028.2	2679.8	2560.2	2585.1	2450.7	2291.3	2131.9	2042.2	2037.2
47.5°	13623.1	11999.3	6709.4	2545.3	2375.9	2331.1	2276.3	2166.7	2047.2	1947.6	1952.6
50°	14280.6	12492.4	6410.6	2455.6	2206.6	2092.0	2102.0	2037.2	1932.6	1843.0	1838.0
52.5°	14743.8	12816.2	6246.2	2405.8	2002.4	1877.8	1912.7	1877.8	1778.2	1713.5	1708.5
55°	15207.0	13065.2	6301.0	2341.1	1778.2	1678.6	1738.4	1728.4	1673.6	1653.7	1658.7
57.5°	15580.6	13254.5	6495.2	2221.5	1564.0	1504.3	1603.9	1574.0	1534.2	1539.1	1539.1
60°	15944.2	13498.6	6724.4	1947.6	1379.7	1384.7	1479.4	1424.6	1399.7	1444.5	1449.5
62.5°	16322.8	13762.6	6535.1	1549.1	1220.3	1255.2	1364.8	1320.0	1329.9	1394.7	1414.6
65°	16278.0	13737.6	5324.7	1270.2	1080.9	1150.6	1315.0	1300.0	1305.0	1329.9	1339.9
67.5°	15361.5	12861.0	3661.0	1080.9	981.3	1065.9	1275.1	1215.4	1220.3	1205.4	1210.4
68°	15052.6	12552.2	3227.7	1051.0	961.3	1046.0	1255.2	1200.4	1205.4	1190.5	1185.5
70°	13369.1	10749.0	2042.2	926.5	891.6	991.2	1155.6	1135.7	1130.7	1120.7	1120.7
72.5°	10191.2	7934.8	1075.9	801.9	811.9	906.5	1031.1	1070.9	1046.0	1051.0	1080.9
75°	6749.3	4771.8	747.2	687.4	712.3	777.0	916.5	996.2	971.3	986.2	971.3
77.5°	3571.4	2570.2	597.7	582.8	582.8	627.6	757.1	881.6	881.6	871.7	856.7
80°	1170.5	906.5	478.2	458.3	468.2	493.1	607.7	722.2	737.2	717.3	707.3
82.5°	393.5	418.4	358.6	333.7	343.7	363.6	458.3	552.9	557.9	518.0	508.1
85°	244.1	278.9	224.1	219.2	219.2	224.1	278.9	303.8	278.9	249.1	259.0
87.5°	114.6	139.5	104.6	89.7	74.7	64.8	49.8	19.9	19.9	10.0	10.0
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)