

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: P1211175

Luminaire Tested: **ARCH4-190-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211175
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: ARCH4-190-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30259 lumens
Efficiency: N/A
Efficacy: 159.3 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): 190
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

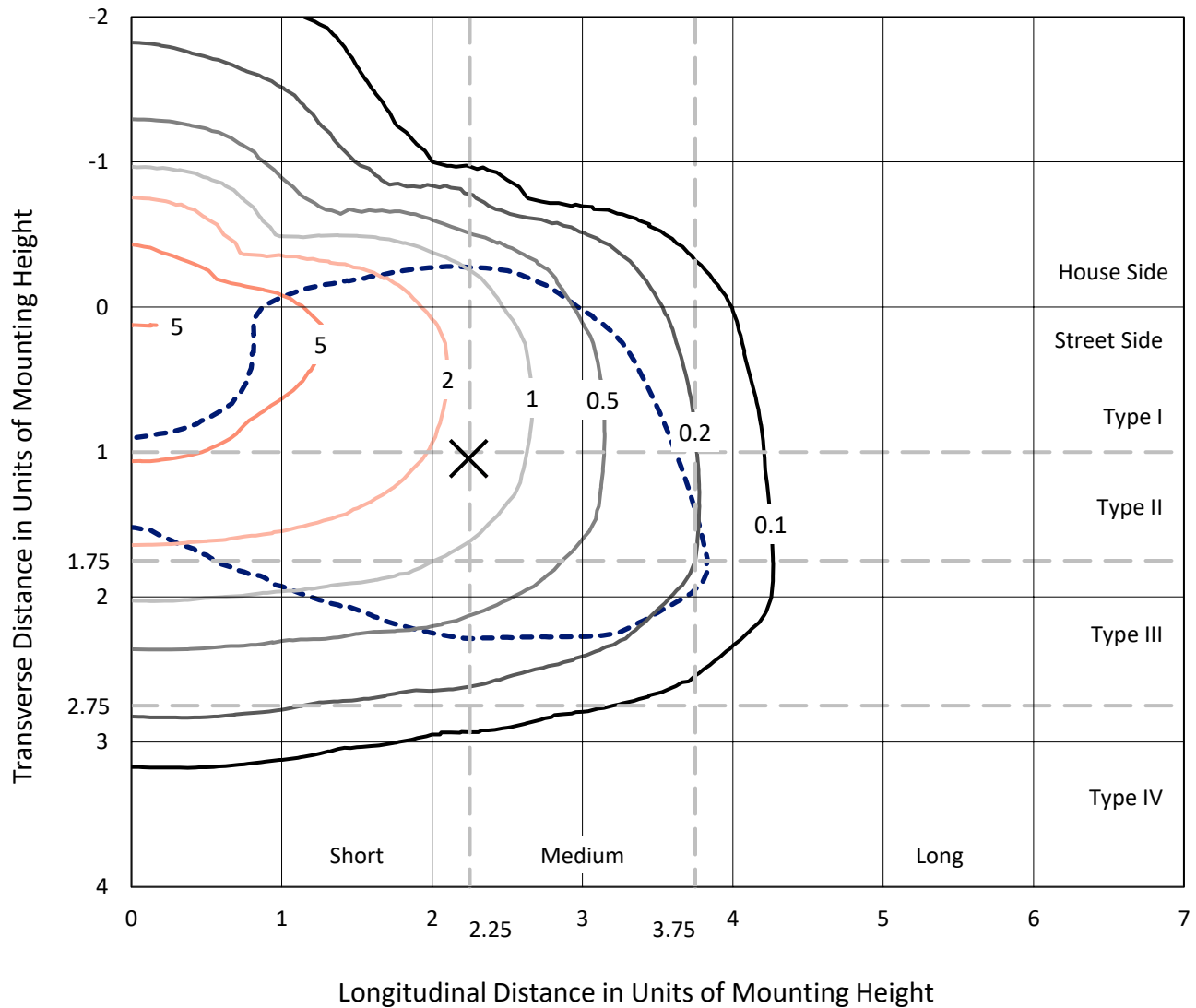


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Iso-Footcandle Lines of Horizontal Illumination

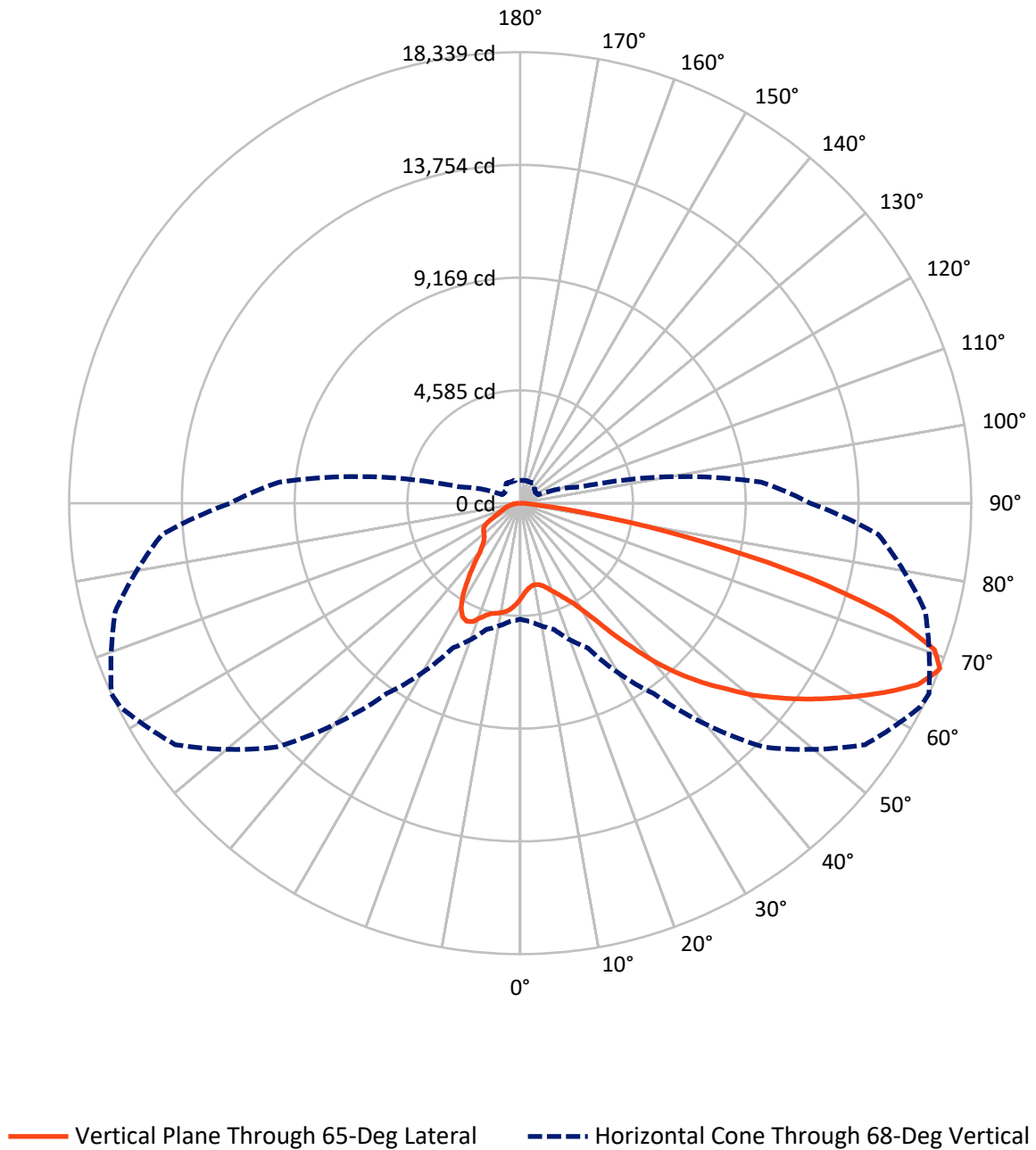
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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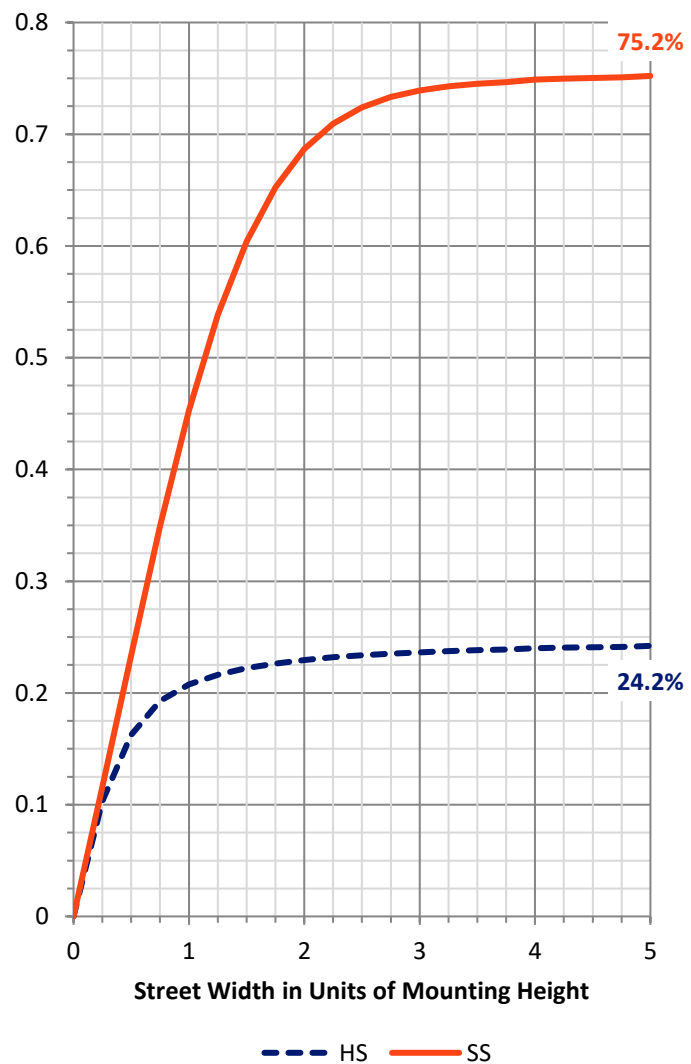
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7418.6	0.0	7418.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	22840.4	0.0	22840.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	30259.0	0.0	30259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.6	1.2
10°-20°	1203.2	4.0
20°-30°	2177.7	7.2
30°-40°	3425.8	11.3
40°-50°	5102.4	16.9
50°-60°	6693.3	22.1
60°-70°	7319.6	24.2
70°-80°	3621.9	12.0
80°-90°	345.5	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°	30259.0	100.0
0°-180°	30259.0	100.0

Coefficient of Utilization



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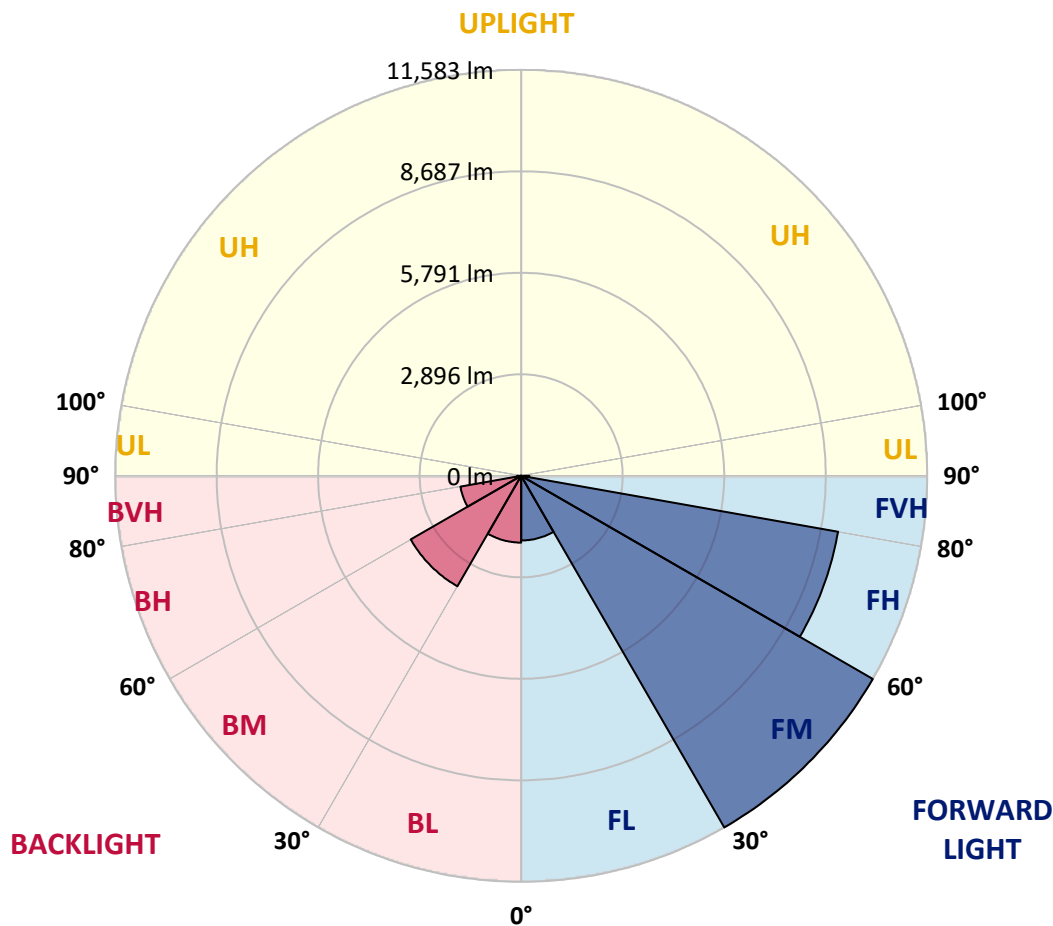
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1844.6	6.1			
FM	(30°-60°)	11582.7	38.3			
FH	(60°-80°)	9180.7	30.3			G4/12000
FVH	(80°-90°)	232.4	0.8			G3/500
BL	(0°-30°)	1905.9	6.3	B3/2500		
BM	(30°-60°)	3638.8	12.0	B3/5000		
BH	(60°-80°)	1760.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	113.1	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°	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7
2.5°	3375.1	3367.3	3386.8	3406.3	3449.2	3500.0	3570.2	3628.7	3636.5	3745.8	3831.6
5°	3176.1	3164.4	3183.9	3207.3	3226.8	3289.3	3363.4	3449.2	3484.4	3644.3	3827.7
7.5°	3195.6	3191.7	3199.5	3191.7	3191.7	3219.0	3269.7	3355.6	3394.6	3585.8	3847.2
10°	3308.8	3316.6	3320.5	3297.1	3273.7	3261.9	3277.6	3336.1	3363.4	3589.7	3933.1
12.5°	3496.1	3507.8	3511.7	3468.7	3437.5	3386.8	3359.5	3382.9	3402.4	3628.7	4054.0
15°	3749.7	3757.5	3730.2	3702.9	3624.8	3562.4	3496.1	3476.5	3484.4	3710.7	4190.6
17.5°	4046.2	4034.5	4034.5	3968.2	3866.7	3769.2	3659.9	3644.3	3644.3	3843.3	4385.7
20°	4370.1	4381.8	4346.7	4256.9	4155.5	4003.3	3894.0	3823.8	3831.6	3995.5	4623.7
22.5°	4838.3	4857.8	4764.2	4635.4	4479.3	4303.7	4147.7	4034.5	4038.4	4194.5	4869.5
25°	5341.6	5349.4	5290.9	5119.2	4908.5	4658.8	4452.0	4307.6	4303.7	4416.9	5185.6
27.5°	5856.7	5891.8	5774.7	5610.9	5415.8	5103.6	4830.5	4635.4	4604.2	4756.4	5579.6
30°	6387.3	6430.2	6317.1	6157.1	5915.2	5649.9	5326.0	5099.7	5080.2	5283.1	6106.4
32.5°	6921.9	6933.6	6843.8	6711.2	6492.7	6243.0	5981.5	5731.8	5712.3	6044.0	6789.2
35°	7358.9	7394.0	7331.6	7300.4	7140.4	6910.2	6656.6	6512.2	6562.9	6988.2	7674.9
37.5°	7885.6	7920.8	7850.5	7842.7	7792.0	7593.0	7417.4	7429.1	7479.8	8057.3	8607.5
40°	8646.5	8685.5	8506.0	8428.0	8428.0	8232.9	8174.4	8451.4	8517.7	9110.8	9579.0
42.5°	9290.3	9352.7	9247.4	9196.7	9044.5	8907.9	8978.2	9368.3	9481.5	10117.5	10425.7
45°	9602.5	9649.3	9774.1	9922.4	9774.1	9536.1	9801.4	10242.4	10402.3	11046.1	11272.4
47.5°	9770.2	9813.2	9957.5	10355.5	10457.0	10258.0	10632.5	11182.7	11292.0	11967.0	12080.1
50°	9793.6	9930.2	10117.5	10515.5	10979.8	11007.1	11467.5	12138.7	12267.4	12872.2	12790.3
52.5°	9602.5	9657.1	10043.4	10714.5	11229.5	11697.7	12376.7	13055.6	13149.2	13722.8	13418.5
55°	9290.3	9368.3	9754.6	10667.7	11471.4	12353.3	13301.4	13956.9	14062.3	14550.0	13999.8
57.5°	9009.4	9048.4	9462.0	10531.1	11713.4	13008.8	14124.7	14897.3	14967.5	15275.7	14429.0
60°	8697.2	8740.1	9153.7	10238.5	11892.8	13504.3	14983.1	15845.4	15907.8	16040.5	14928.5
62.5°	7889.5	8002.7	8521.6	9754.6	11846.0	14070.1	15900.0	16781.9	16859.9	16715.5	15322.6
65°	6406.8	6566.8	7202.8	8658.2	11409.0	14436.8	16649.2	17644.2	17776.8	17222.8	15427.9
67.5°	4974.9	5088.0	5599.2	6871.2	9875.6	14253.5	17133.0	18237.2	18276.3	17140.8	14842.6
68°	4717.3	4830.5	5318.2	6496.6	9450.3	14035.0	17121.3	18252.8	18338.7	17051.1	14616.3
70°	3609.2	3738.0	4202.3	5146.5	7616.4	12645.9	16407.3	17878.3	17866.6	15966.4	13211.7
72.5°	2255.3	2329.4	2649.4	3246.3	5037.3	9622.0	13925.7	15767.4	15798.6	13016.6	10133.1
75°	1432.0	1432.0	1416.4	1572.4	2583.0	5482.1	10351.6	12138.7	12162.1	9114.7	6387.3
77.5°	1244.7	1209.6	1041.8	881.8	1030.1	2130.4	6125.9	7838.8	7710.1	4908.5	3031.7
80°	1049.6	991.1	854.5	710.1	663.3	667.2	2352.8	3979.9	3808.2	1767.5	1006.7
82.5°	757.0	706.2	643.8	558.0	511.1	398.0	491.6	1151.0	1123.7	511.1	327.8
85°	409.7	370.7	362.9	366.8	308.2	245.8	206.8	253.6	253.6	222.4	187.3
87.5°	144.4	105.3	124.9	140.5	121.0	101.4	81.9	97.5	101.4	97.5	89.7
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°	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7	3866.7
2.5°	3882.3	3921.4	4015.0	4096.9	4155.5	4206.2	4233.5	4245.2	4272.5	4276.4	4268.6
5°	3913.6	4015.0	4155.5	4276.4	4342.8	4370.1	4377.9	4381.8	4370.1	4377.9	4370.1
7.5°	3995.5	4124.3	4323.2	4428.6	4440.3	4397.4	4401.3	4385.7	4401.3	4416.9	4416.9
10°	4120.4	4284.2	4471.5	4510.5	4459.8	4436.4	4483.2	4576.9	4608.1	4651.0	4651.0
12.5°	4284.2	4479.3	4612.0	4576.9	4530.0	4608.1	4744.6	4838.3	4869.5	4885.1	4873.4
15°	4471.5	4682.2	4748.6	4631.5	4717.3	4885.1	4931.9	4877.3	4799.3	4764.2	4783.7
17.5°	4709.5	4885.1	4846.1	4768.1	4963.2	4986.6	4834.4	4658.8	4533.9	4487.1	4518.3
20°	4959.2	5111.4	4931.9	4967.1	5088.0	4838.3	4549.6	4323.2	4214.0	4194.5	4225.7
22.5°	5224.6	5322.1	5017.8	5197.3	5017.8	4510.5	4163.3	4046.2	4018.9	4050.1	4077.4
25°	5525.0	5513.3	5166.0	5267.5	4756.4	4108.6	3901.8	3894.0	3894.0	3913.6	3952.6
27.5°	5864.5	5681.1	5314.3	5173.9	4303.7	3777.0	3738.0	3741.9	3730.2	3734.1	3753.6
30°	6258.6	5907.4	5478.2	4865.6	3796.5	3527.3	3511.7	3500.0	3472.6	3464.8	3472.6
32.5°	6754.1	6145.4	5646.0	4358.4	3351.7	3269.7	3261.9	3199.5	3133.2	3125.4	3152.7
35°	7382.3	6578.5	5731.8	3722.4	2984.9	2981.0	2953.7	2856.2	2770.3	2770.3	2750.8
37.5°	8100.2	7136.5	5766.9	3102.0	2680.6	2700.1	2622.0	2497.2	2430.9	2391.8	2403.5
40°	8833.8	7772.5	5763.0	2559.6	2415.2	2419.1	2360.6	2208.4	2044.6	1947.0	1970.4
42.5°	9540.0	8350.0	5661.6	2270.9	2200.6	2188.9	2142.1	1935.3	1798.8	1720.7	1724.6
45°	10105.8	8946.9	5505.5	2099.2	2005.6	2025.1	1919.7	1794.9	1670.0	1599.8	1595.9
47.5°	10671.6	9399.6	5255.8	1993.8	1861.2	1826.1	1783.1	1697.3	1603.7	1525.6	1529.5
50°	11186.6	9785.8	5021.7	1923.6	1728.5	1638.8	1646.6	1595.9	1513.9	1443.7	1439.8
52.5°	11549.5	10039.5	4892.9	1884.6	1568.5	1471.0	1498.3	1471.0	1393.0	1342.2	1338.3
55°	11912.3	10234.5	4935.8	1833.9	1393.0	1314.9	1361.7	1353.9	1311.0	1295.4	1299.3
57.5°	12205.0	10382.8	5088.0	1740.2	1225.2	1178.4	1256.4	1233.0	1201.8	1205.7	1205.7
60°	12489.8	10574.0	5267.5	1525.6	1080.8	1084.7	1158.8	1115.9	1096.4	1131.5	1135.4
62.5°	12786.4	10780.8	5119.2	1213.5	956.0	983.3	1069.1	1034.0	1041.8	1092.5	1108.1
65°	12751.2	10761.3	4171.1	995.0	846.7	901.3	1030.1	1018.4	1022.3	1041.8	1049.6
67.5°	12033.3	10074.6	2867.9	846.7	768.7	835.0	998.9	952.1	956.0	944.2	948.1
68°	11791.4	9832.7	2528.4	823.3	753.1	819.4	983.3	940.3	944.2	932.5	928.6
70°	10472.6	8420.2	1599.8	725.7	698.4	776.5	905.2	889.6	885.7	877.9	877.9
72.5°	7983.2	6215.6	842.8	628.2	636.0	710.1	807.7	838.9	819.4	823.3	846.7
75°	5287.0	3738.0	585.3	538.5	558.0	608.7	717.9	780.4	760.9	772.6	760.9
77.5°	2797.6	2013.4	468.2	456.5	456.5	491.6	593.1	690.6	690.6	682.8	671.1
80°	916.9	710.1	374.6	359.0	366.8	386.3	476.0	565.8	577.5	561.9	554.1
82.5°	308.2	327.8	280.9	261.4	269.2	284.8	359.0	433.1	437.0	405.8	398.0
85°	191.2	218.5	175.6	171.7	171.7	175.6	218.5	238.0	218.5	195.1	202.9
87.5°	89.7	109.3	81.9	70.2	58.5	50.7	39.0	15.6	15.6	7.8	7.8
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)