

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: P1211319

Luminaire Tested: **ARCH4-240-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211319
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: ARCH4-240-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30238 lumens
Efficiency: N/A
Efficacy: 125.9 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): 240.2
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



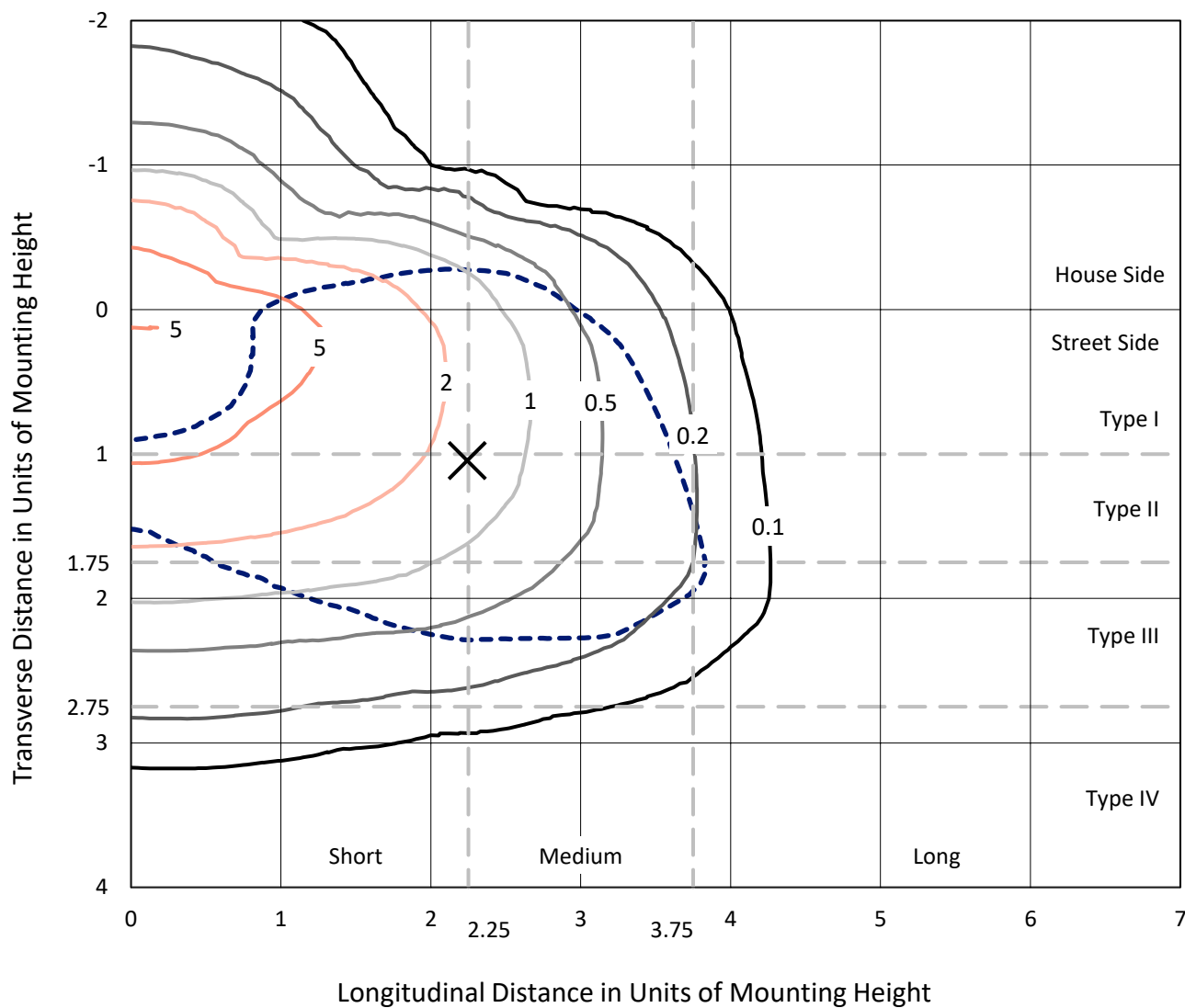
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



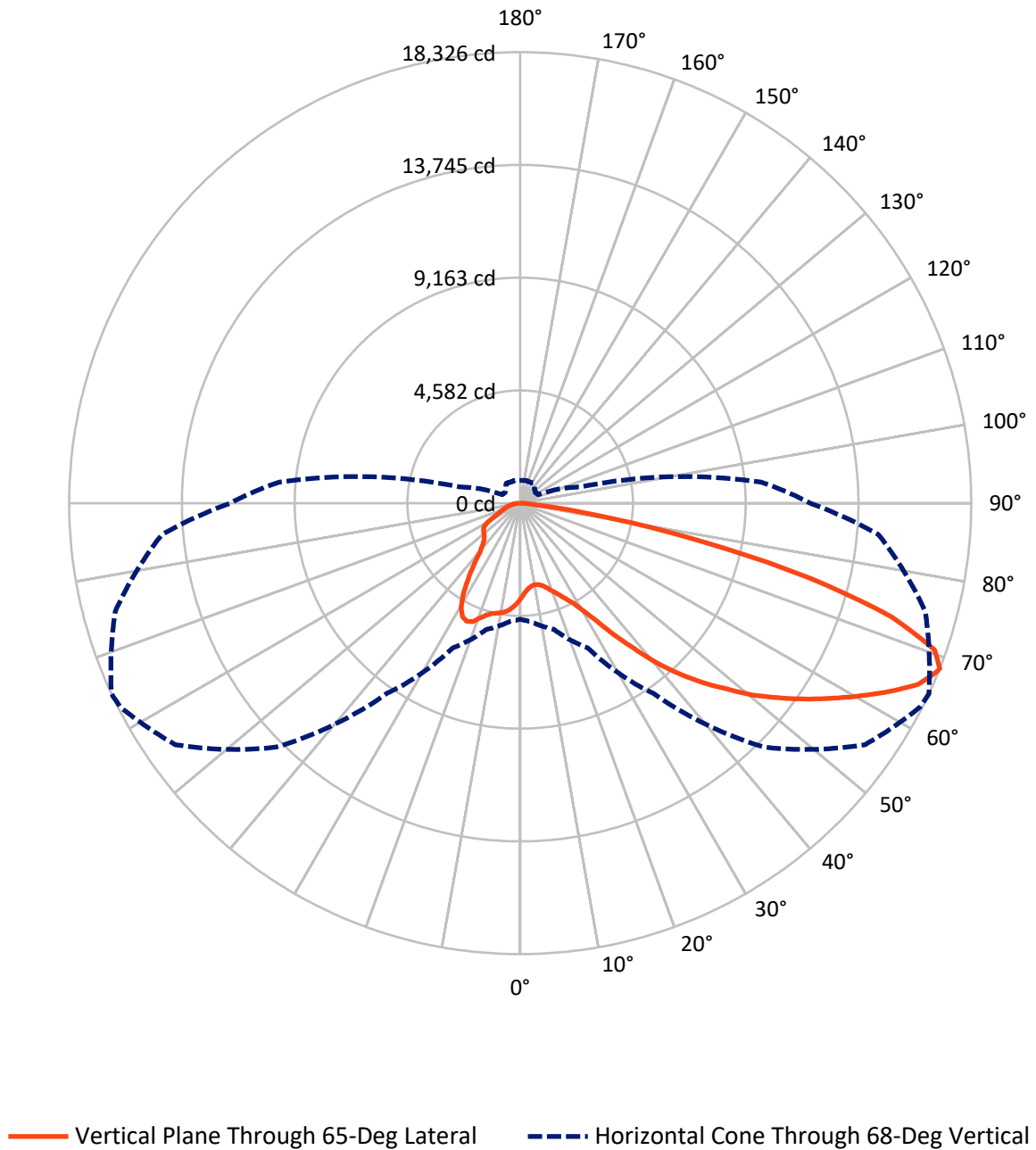
Based on 25 foot mounting height. Maximum calculated value = 7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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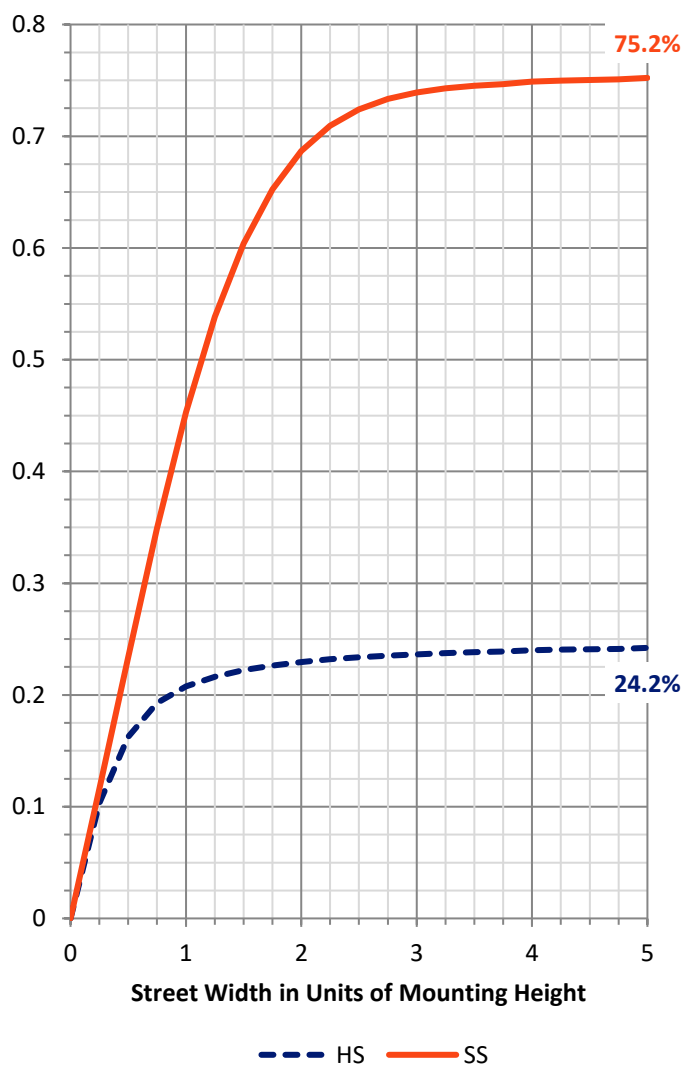
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7413.5	0.0	7413.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	22824.5	0.0	22824.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	30238.0	0.0	30238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	1.2
10°-20°	1202.4	4.0
20°-30°	2176.2	7.2
30°-40°	3423.4	11.3
40°-50°	5098.8	16.9
50°-60°	6688.7	22.1
60°-70°	7314.5	24.2
70°-80°	3619.4	12.0
80°-90°	345.3	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°	30238.0	100.0
0°-180°	30238.0	100.0

Coefficient of Utilization



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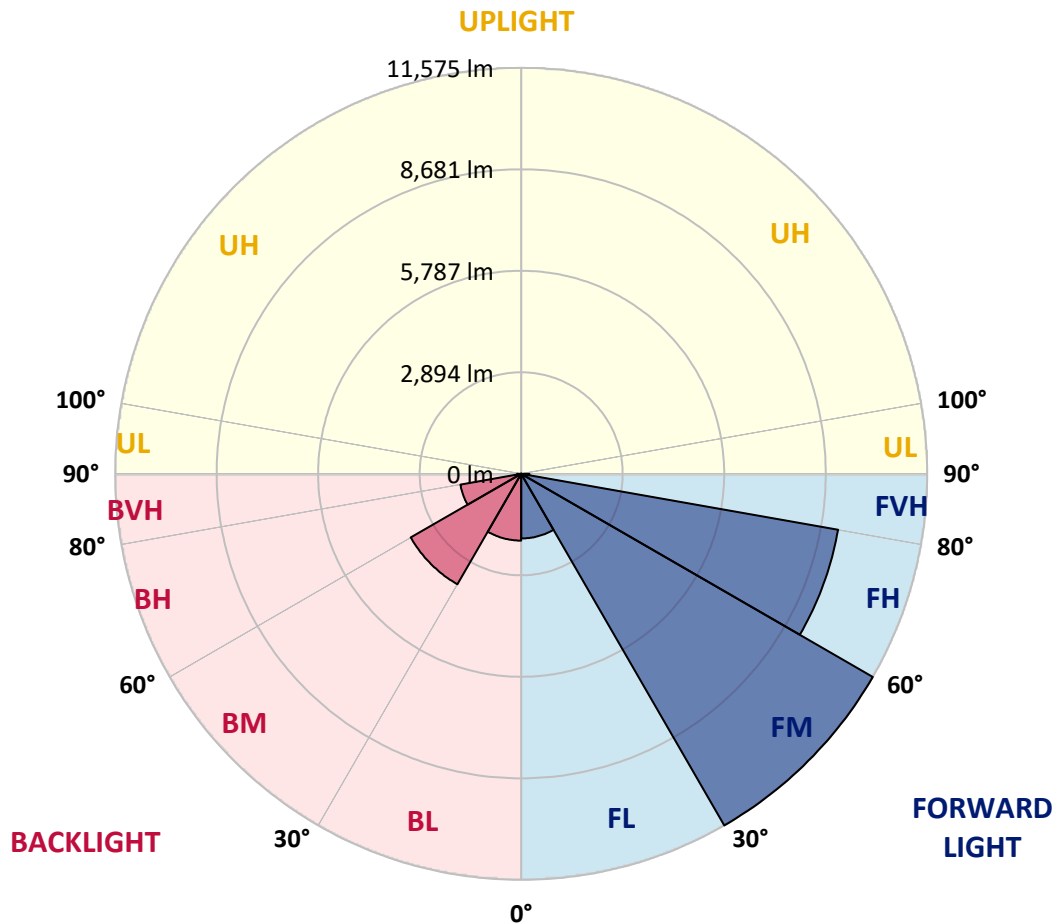
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1843.3	6.1			
FM	(30°-60°)	11574.7	38.3			
FH	(60°-80°)	9174.3	30.3			G4/12000
FVH	(80°-90°)	232.2	0.8			G3/500
BL	(0°-30°)	1904.6	6.3	B3/2500		
BM	(30°-60°)	3636.2	12.0	B3/5000		
BH	(60°-80°)	1759.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	113.0	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°	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0
2.5°	3372.8	3365.0	3384.5	3404.0	3446.8	3497.5	3567.7	3626.2	3634.0	3743.2	3829.0
5°	3173.9	3162.2	3181.7	3205.1	3224.6	3287.0	3361.1	3446.8	3481.9	3641.8	3825.1
7.5°	3193.4	3189.5	3197.3	3189.5	3189.5	3216.8	3267.5	3353.3	3392.3	3583.3	3844.6
10°	3306.5	3314.3	3318.2	3294.8	3271.4	3259.7	3275.3	3333.8	3361.1	3587.2	3930.3
12.5°	3493.6	3505.3	3509.2	3466.3	3435.1	3384.5	3357.2	3380.6	3400.1	3626.2	4051.2
15°	3747.1	3754.9	3727.6	3700.3	3622.3	3559.9	3493.6	3474.1	3481.9	3708.1	4187.7
17.5°	4043.4	4031.7	4031.7	3965.4	3864.0	3766.6	3657.4	3641.8	3641.8	3840.7	4382.6
20°	4367.0	4378.7	4343.6	4254.0	4152.6	4000.5	3891.3	3821.2	3829.0	3992.7	4620.5
22.5°	4834.9	4854.4	4760.9	4632.2	4476.2	4300.8	4144.8	4031.7	4035.6	4191.6	4866.1
25°	5337.9	5345.7	5287.2	5115.7	4905.1	4655.6	4448.9	4304.7	4300.8	4413.8	5182.0
27.5°	5852.6	5887.7	5770.7	5607.0	5412.0	5100.1	4827.1	4632.2	4601.0	4753.1	5575.8
30°	6382.9	6425.8	6312.7	6152.8	5911.1	5646.0	5322.3	5096.2	5076.7	5279.4	6102.2
32.5°	6917.1	6928.8	6839.1	6706.5	6488.2	6238.6	5977.4	5727.8	5708.3	6039.8	6784.5
35°	7353.8	7388.9	7326.5	7295.3	7135.4	6905.4	6651.9	6507.7	6558.4	6983.4	7669.6
37.5°	7880.2	7915.3	7845.1	7837.3	7786.6	7587.7	7412.3	7424.0	7474.7	8051.7	8601.5
40°	8640.5	8679.5	8500.1	8422.1	8422.1	8227.2	8168.7	8445.5	8511.8	9104.5	9572.4
42.5°	9283.9	9346.2	9241.0	9190.3	9038.2	8901.7	8971.9	9361.8	9474.9	10110.5	10418.5
45°	9595.8	9642.6	9767.3	9915.5	9767.3	9529.5	9794.6	10235.2	10395.1	11038.5	11264.6
47.5°	9763.4	9806.3	9950.6	10348.3	10449.7	10250.8	10625.2	11174.9	11284.1	11958.7	12071.7
50°	9786.8	9923.3	10110.5	10508.2	10972.2	10999.5	11459.6	12130.2	12258.9	12863.3	12781.4
52.5°	9595.8	9650.4	10036.4	10707.0	11221.7	11689.6	12368.1	13046.5	13140.1	13713.3	13409.1
55°	9283.9	9361.8	9747.9	10660.3	11463.5	12344.7	13292.2	13947.2	14052.5	14539.9	13990.1
57.5°	9003.1	9042.1	9455.4	10523.8	11705.2	12999.7	14114.9	14886.9	14957.1	15265.1	14419.0
60°	8691.2	8734.1	9147.4	10231.3	11884.6	13494.9	14972.7	15834.4	15896.8	16029.4	14918.1
62.5°	7884.1	7997.1	8515.7	9747.9	11837.8	14060.3	15889.0	16770.2	16848.2	16703.9	15311.9
65°	6402.4	6562.3	7197.8	8652.2	11401.1	14426.8	16637.6	17631.9	17764.5	17210.8	15417.2
67.5°	4971.4	5084.5	5595.3	6866.4	9868.7	14243.6	17121.1	18224.6	18263.6	17128.9	14832.3
68°	4714.1	4827.1	5314.5	6492.1	9443.7	14025.2	17109.4	18240.2	18326.0	17039.2	14606.2
70°	3606.7	3735.4	4199.4	5143.0	7611.1	12637.1	16395.9	17865.9	17854.2	15955.3	13202.5
72.5°	2253.7	2327.8	2647.5	3244.1	5033.8	9615.3	13916.0	15756.4	15787.6	13007.5	10126.1
75°	1431.0	1431.0	1415.4	1571.4	2581.2	5478.3	10344.4	12130.2	12153.6	9108.4	6382.9
77.5°	1243.8	1208.7	1041.1	881.2	1029.4	2128.9	6121.7	7833.4	7704.7	4905.1	3029.6
80°	1048.9	990.4	853.9	709.6	662.9	666.8	2351.2	3977.1	3805.6	1766.3	1006.0
82.5°	756.4	705.7	643.4	557.6	510.8	397.7	491.3	1150.2	1123.0	510.8	327.5
85°	409.4	370.4	362.6	366.5	308.0	245.6	206.7	253.4	253.4	222.3	187.2
87.5°	144.3	105.3	124.8	140.4	120.9	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°	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0	3864.0
2.5°	3879.6	3918.6	4012.2	4094.1	4152.6	4203.3	4230.6	4242.3	4269.6	4273.5	4265.7
5°	3910.8	4012.2	4152.6	4273.5	4339.7	4367.0	4374.8	4378.7	4367.0	4374.8	4367.0
7.5°	3992.7	4121.4	4320.2	4425.5	4437.2	4394.3	4398.2	4382.6	4398.2	4413.8	4413.8
10°	4117.5	4281.3	4468.4	4507.4	4456.7	4433.3	4480.1	4573.7	4604.9	4647.8	4647.8
12.5°	4281.3	4476.2	4608.8	4573.7	4526.9	4604.9	4741.4	4834.9	4866.1	4881.7	4870.0
15°	4468.4	4679.0	4745.3	4628.3	4714.1	4881.7	4928.5	4873.9	4795.9	4760.9	4780.3
17.5°	4706.3	4881.7	4842.7	4764.8	4959.7	4983.1	4831.0	4655.6	4530.8	4484.0	4515.2
20°	4955.8	5107.9	4928.5	4963.6	5084.5	4834.9	4546.4	4320.2	4211.1	4191.6	4222.8
22.5°	5220.9	5318.4	5014.3	5193.7	5014.3	4507.4	4160.4	4043.4	4016.1	4047.3	4074.6
25°	5521.2	5509.5	5162.5	5263.8	4753.1	4105.8	3899.1	3891.3	3891.3	3910.8	3949.8
27.5°	5860.4	5677.1	5310.6	5170.3	4300.8	3774.4	3735.4	3739.3	3727.6	3731.5	3751.0
30°	6254.2	5903.3	5474.4	4862.2	3793.9	3524.8	3509.2	3497.5	3470.2	3462.4	3470.2
32.5°	6749.4	6141.1	5642.1	4355.3	3349.4	3267.5	3259.7	3197.3	3131.0	3123.2	3150.5
35°	7377.2	6574.0	5727.8	3719.8	2982.8	2978.9	2951.6	2854.2	2768.4	2768.4	2748.9
37.5°	8094.6	7131.5	5762.9	3099.8	2678.7	2698.2	2620.2	2495.5	2429.2	2390.2	2401.9
40°	8827.7	7767.1	5759.0	2557.8	2413.6	2417.5	2359.0	2206.9	2043.1	1945.7	1969.1
42.5°	9533.4	8344.2	5657.7	2269.3	2199.1	2187.4	2140.6	1934.0	1797.5	1719.5	1723.4
45°	10098.8	8940.7	5501.7	2097.7	2004.2	2023.7	1918.4	1793.6	1668.8	1598.6	1594.7
47.5°	10664.2	9393.0	5252.1	1992.5	1859.9	1824.8	1781.9	1696.1	1602.5	1524.6	1528.5
50°	11178.8	9779.0	5018.2	1922.3	1727.3	1637.6	1645.4	1594.7	1512.9	1442.7	1438.8
52.5°	11541.5	10032.5	4889.5	1883.3	1567.5	1470.0	1497.3	1470.0	1392.0	1341.3	1337.4
55°	11904.1	10227.4	4932.4	1832.6	1392.0	1314.0	1360.8	1353.0	1310.1	1294.5	1298.4
57.5°	12196.5	10375.6	5084.5	1739.0	1224.3	1177.5	1255.5	1232.1	1200.9	1204.8	1204.8
60°	12481.2	10566.7	5263.8	1524.6	1080.1	1084.0	1158.0	1115.2	1095.7	1130.8	1134.7
62.5°	12777.5	10773.3	5115.7	1212.6	955.3	982.6	1068.4	1033.3	1041.1	1091.8	1107.4
65°	12742.4	10753.8	4168.2	994.3	846.1	900.7	1029.4	1017.7	1021.6	1041.1	1048.9
67.5°	12025.0	10067.6	2865.9	846.1	768.1	834.4	998.2	951.4	955.3	943.6	947.5
68°	11783.2	9825.8	2526.6	822.7	752.5	818.8	982.6	939.7	943.6	931.9	928.0
70°	10465.3	8414.3	1598.6	725.2	697.9	775.9	904.6	889.0	885.1	877.3	877.3
72.5°	7977.6	6211.3	842.2	627.8	635.6	709.6	807.1	838.3	818.8	822.7	846.1
75°	5283.3	3735.4	584.9	538.1	557.6	608.3	717.4	779.8	760.3	772.0	760.3
77.5°	2795.7	2012.0	467.9	456.2	456.2	491.3	592.7	690.1	690.1	682.3	670.7
80°	916.3	709.6	374.3	358.7	366.5	386.0	475.7	565.4	577.1	561.5	553.7
82.5°	308.0	327.5	280.7	261.2	269.0	284.6	358.7	432.8	436.7	405.5	397.7
85°	191.1	218.4	175.5	171.6	171.6	175.5	218.4	237.8	218.4	195.0	202.8
87.5°	89.7	109.2	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)