

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: P1211103

Luminaire Tested: **ARCH4-170-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211103
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: ARCH4-170-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26373 lumens
Efficiency: N/A
Efficacy: 155.3 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): 169.8
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

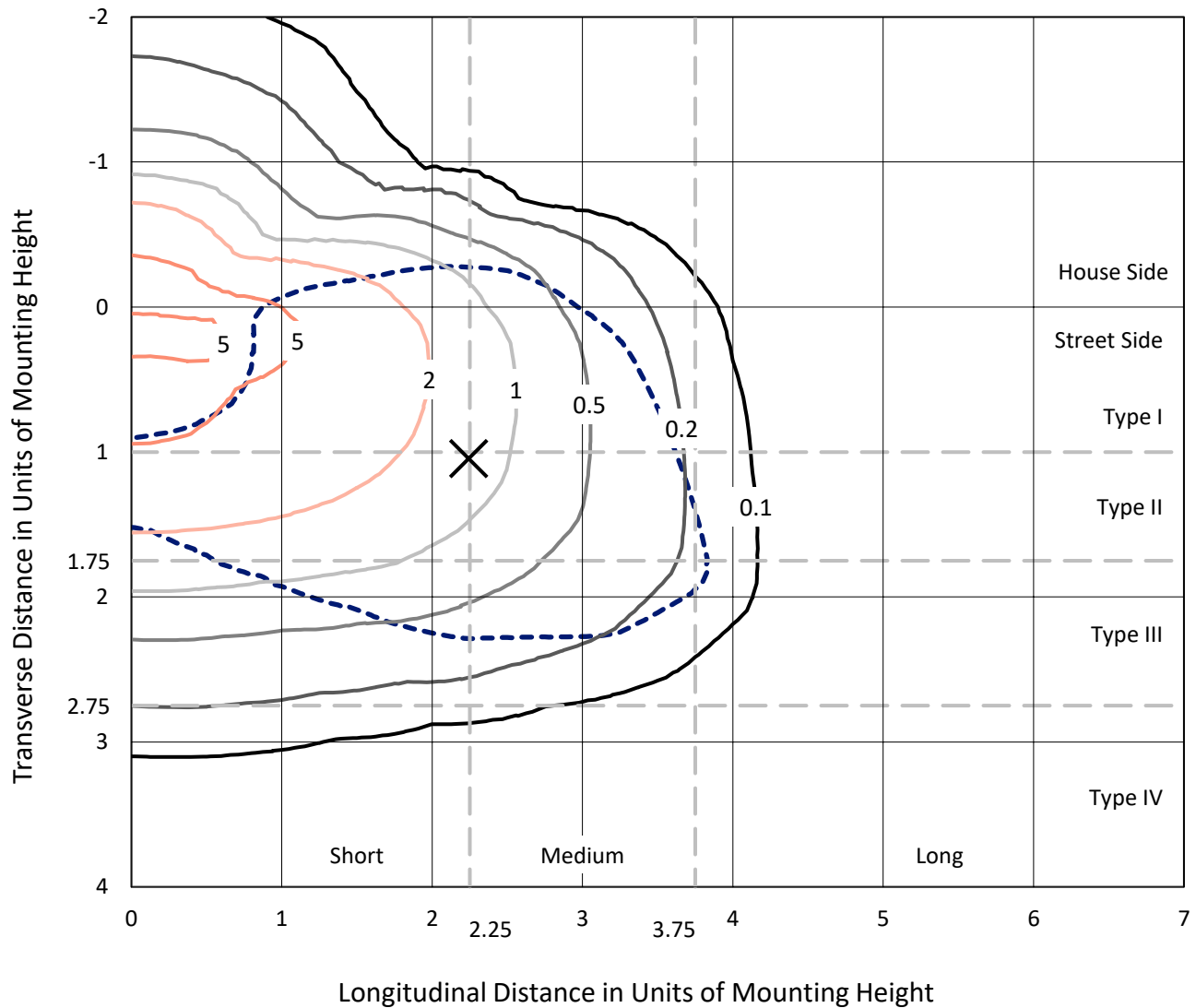


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

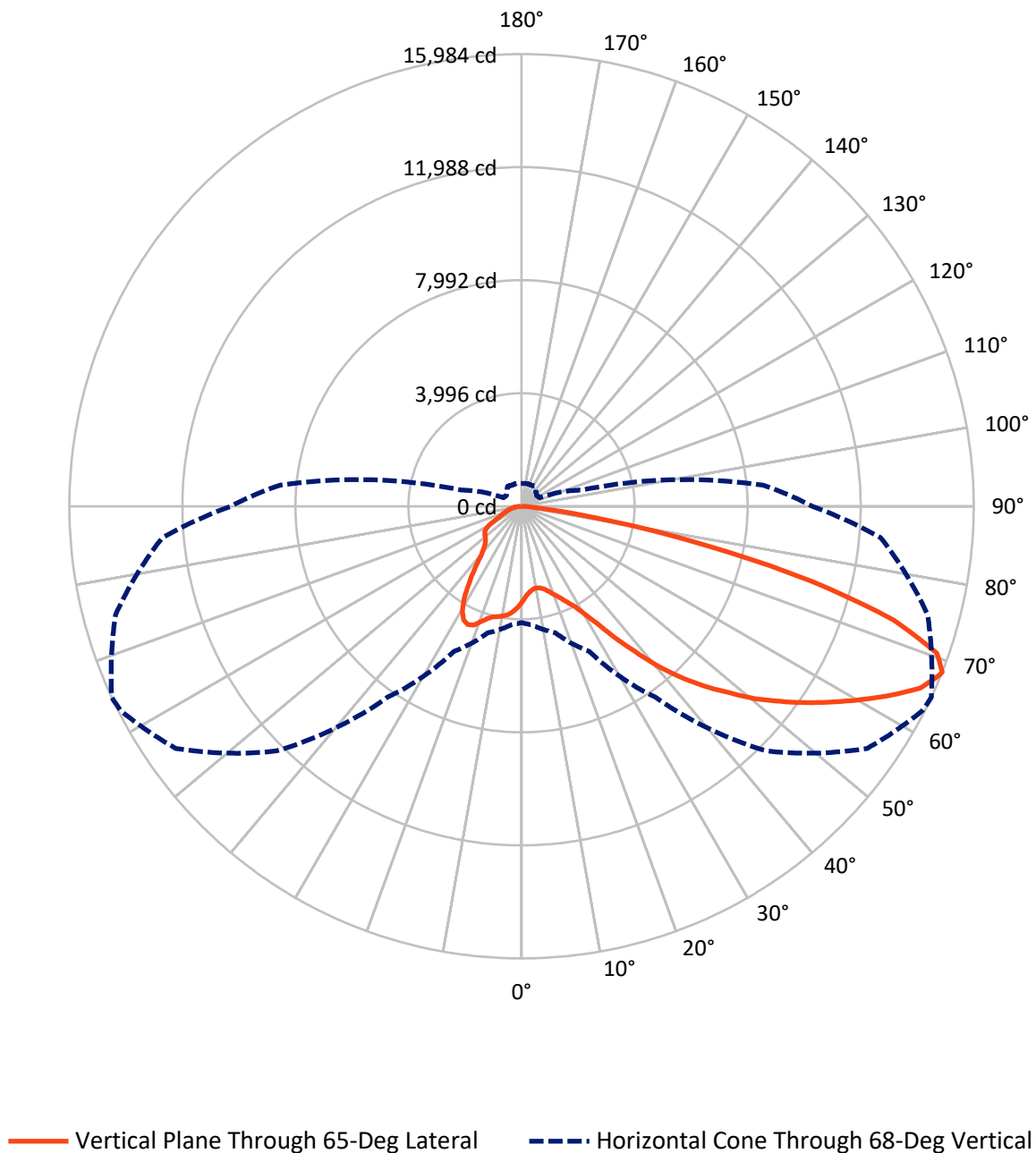


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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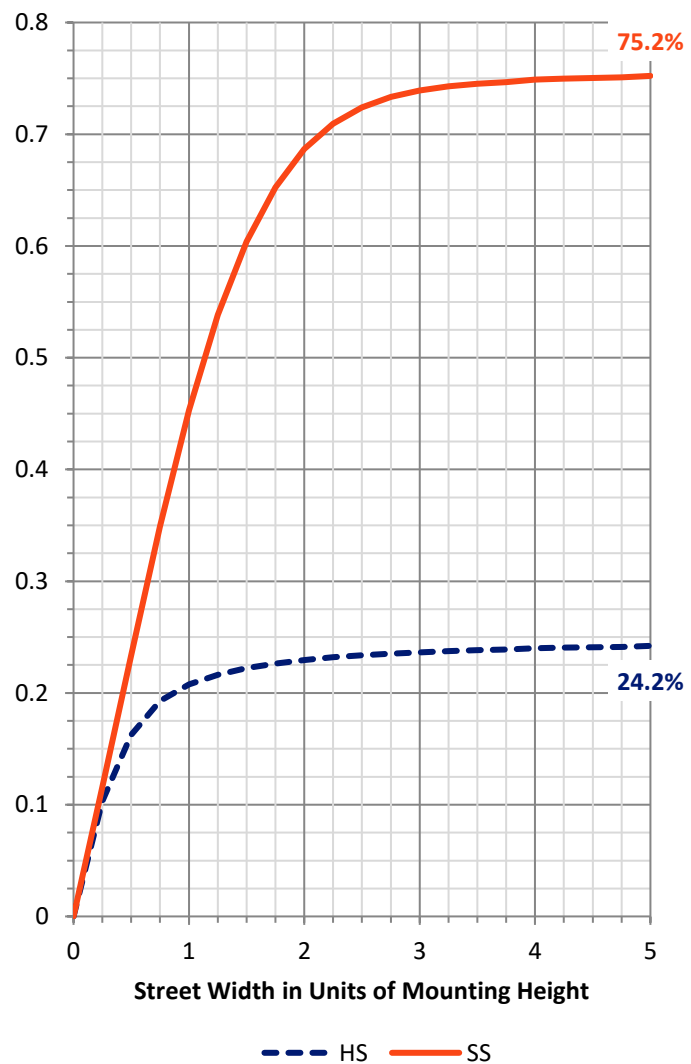
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6465.9	0.0	6465.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	19907.1	0.0	19907.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	26373.0	0.0	26373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.1	1.2
10°-20°	1048.7	4.0
20°-30°	1898.1	7.2
30°-40°	2985.9	11.3
40°-50°	4447.1	16.9
50°-60°	5833.7	22.1
60°-70°	6379.5	24.2
70°-80°	3156.8	12.0
80°-90°	301.1	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°	26373.0	100.0
0°-180°	26373.0	100.0

Coefficient of Utilization



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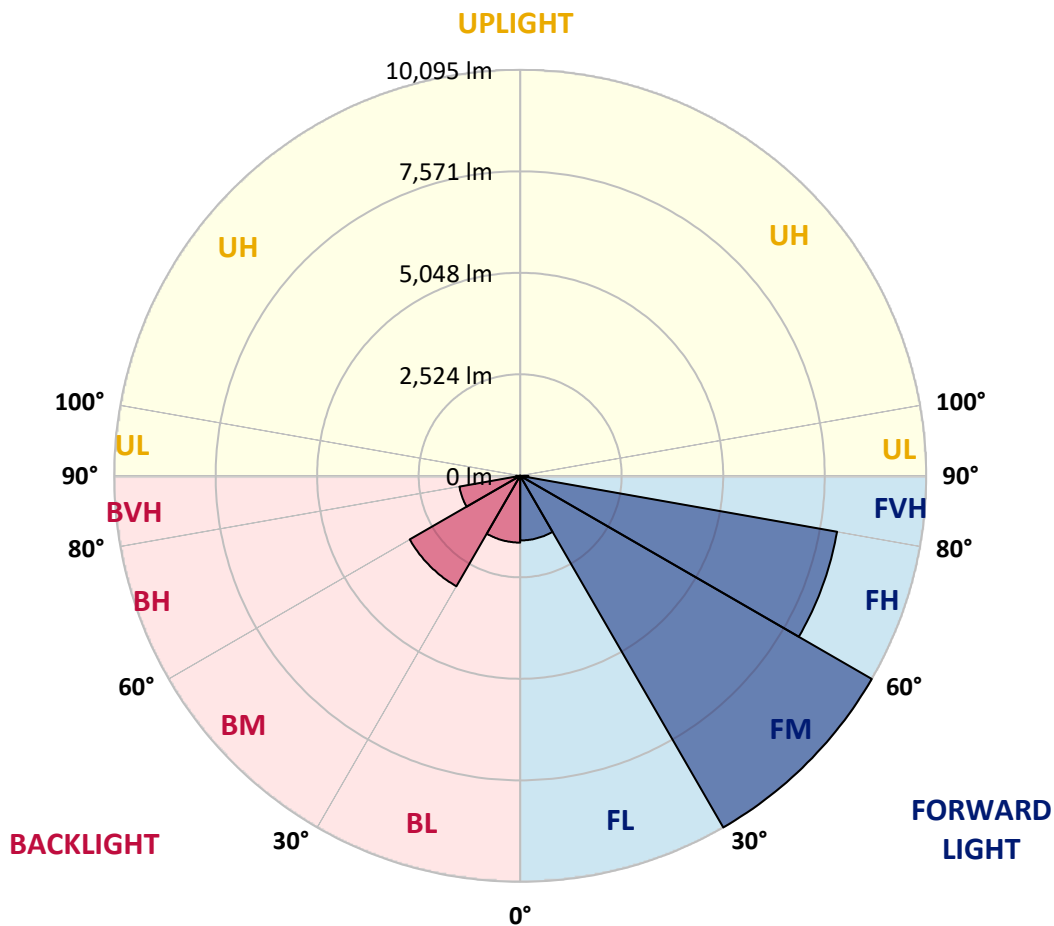
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1607.7	6.1			
FM	(30°-60°)	10095.2	38.3			
FH	(60°-80°)	8001.6	30.3			G4/12000
FVH	(80°-90°)	202.5	0.8			G2/225
BL	(0°-30°)	1661.1	6.3	B3/2500		
BM	(30°-60°)	3171.5	12.0	B3/5000		
BH	(60°-80°)	1534.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	98.6	0.4			G1/100
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°	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1
2.5°	2941.7	2934.9	2951.9	2968.9	3006.3	3050.5	3111.7	3162.7	3169.5	3264.7	3339.5
5°	2768.2	2758.0	2775.0	2795.4	2812.4	2866.8	2931.5	3006.3	3036.9	3176.3	3336.1
7.5°	2785.2	2781.8	2788.6	2781.8	2781.8	2805.6	2849.8	2924.6	2958.7	3125.3	3353.1
10°	2883.8	2890.6	2894.0	2873.6	2853.2	2843.0	2856.6	2907.6	2931.5	3128.7	3428.0
12.5°	3047.1	3057.3	3060.7	3023.3	2996.1	2951.9	2928.1	2948.5	2965.5	3162.7	3533.4
15°	3268.1	3274.9	3251.1	3227.3	3159.3	3104.9	3047.1	3030.1	3036.9	3234.1	3652.4
17.5°	3526.6	3516.4	3516.4	3458.6	3370.1	3285.1	3189.9	3176.3	3176.3	3349.7	3822.4
20°	3808.8	3819.0	3788.4	3710.2	3621.8	3489.2	3394.0	3332.7	3339.5	3482.4	4029.9
22.5°	4216.9	4233.9	4152.3	4040.1	3904.1	3751.0	3615.0	3516.4	3519.8	3655.8	4244.1
25°	4655.6	4662.4	4611.4	4461.8	4278.2	4060.5	3880.3	3754.4	3751.0	3849.7	4519.6
27.5°	5104.5	5135.1	5033.1	4890.3	4720.2	4448.2	4210.1	4040.1	4012.9	4145.5	4863.1
30°	5567.0	5604.4	5505.8	5366.4	5155.5	4924.3	4642.0	4444.8	4427.8	4604.6	5322.2
32.5°	6032.9	6043.1	5964.9	5849.3	5658.9	5441.2	5213.4	4995.7	4978.7	5267.8	5917.3
35°	6413.8	6444.4	6390.0	6362.8	6223.4	6022.7	5801.7	5675.9	5720.1	6090.8	6689.3
37.5°	6872.9	6903.5	6842.3	6835.5	6791.3	6617.9	6464.8	6475.0	6519.2	7022.6	7502.1
40°	7536.1	7570.1	7413.6	7345.6	7345.6	7175.6	7124.6	7366.0	7423.8	7940.8	8348.9
42.5°	8097.2	8151.6	8059.8	8015.6	7883.0	7763.9	7825.1	8165.2	8263.8	8818.2	9086.8
45°	8369.3	8410.1	8518.9	8648.1	8518.9	8311.4	8542.7	8927.0	9066.4	9627.5	9824.8
47.5°	8515.5	8552.9	8678.7	9025.6	9114.0	8940.6	9267.1	9746.6	9841.8	10430.1	10528.7
50°	8535.9	8654.9	8818.2	9165.0	9569.7	9593.5	9994.8	10579.8	10692.0	11219.1	11147.7
52.5°	8369.3	8416.9	8753.5	9338.5	9787.4	10195.5	10787.2	11378.9	11460.5	11960.5	11695.2
55°	8097.2	8165.2	8501.9	9297.7	9998.2	10766.8	11593.2	12164.5	12256.3	12681.4	12201.9
57.5°	7852.3	7886.4	8246.8	9178.6	10209.1	11338.1	12310.7	12984.1	13045.3	13314.0	12576.0
60°	7580.3	7617.7	7978.2	8923.6	10365.5	11770.0	13058.9	13810.5	13864.9	13980.5	13011.3
62.5°	6876.3	6974.9	7427.3	8501.9	10324.7	12263.1	13858.1	14626.6	14694.7	14568.8	13354.8
65°	5584.0	5723.5	6277.8	7546.3	9943.8	12582.8	14511.0	15378.2	15493.8	15010.9	13446.6
67.5°	4336.0	4434.6	4880.1	5988.7	8607.3	12423.0	14932.7	15895.1	15929.1	14939.5	12936.5
68°	4111.5	4210.1	4635.2	5662.3	8236.6	12232.5	14922.5	15908.7	15983.6	14861.3	12739.2
70°	3145.7	3257.9	3662.6	4485.6	6638.3	11021.8	14300.2	15582.3	15572.1	13915.9	11515.0
72.5°	1965.6	2030.3	2309.1	2829.4	4390.4	8386.3	12137.3	13742.5	13769.7	11344.9	8831.8
75°	1248.1	1248.1	1234.5	1370.5	2251.3	4778.1	9022.2	10579.8	10600.2	7944.2	5567.0
77.5°	1084.8	1054.2	908.0	768.6	897.8	1856.8	5339.2	6832.1	6719.9	4278.2	2642.4
80°	914.8	863.8	744.8	618.9	578.1	581.5	2050.7	3468.8	3319.1	1540.5	877.4
82.5°	659.7	615.5	561.1	486.3	445.5	346.9	428.5	1003.2	979.4	445.5	285.7
85°	357.1	323.1	316.3	319.7	268.7	214.2	180.2	221.0	221.0	193.8	163.2
87.5°	125.8	91.8	108.8	122.4	105.4	88.4	71.4	85.0	88.4	85.0	78.2
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°	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1	3370.1
2.5°	3383.8	3417.8	3499.4	3570.8	3621.8	3666.0	3689.8	3700.0	3723.8	3727.2	3720.4
5°	3411.0	3499.4	3621.8	3727.2	3785.0	3808.8	3815.6	3819.0	3808.8	3815.6	3808.8
7.5°	3482.4	3594.6	3768.0	3859.9	3870.1	3832.7	3836.1	3822.4	3836.1	3849.7	3849.7
10°	3591.2	3734.0	3897.3	3931.3	3887.1	3866.7	3907.5	3989.1	4016.3	4053.7	4053.7
12.5°	3734.0	3904.1	4019.7	3989.1	3948.3	4016.3	4135.3	4216.9	4244.1	4257.7	4247.5
15°	3897.3	4080.9	4138.7	4036.7	4111.5	4257.7	4298.6	4250.9	4182.9	4152.3	4169.3
17.5°	4104.7	4257.7	4223.7	4155.7	4325.8	4346.2	4213.5	4060.5	3951.7	3910.9	3938.1
20°	4322.4	4455.0	4298.6	4329.2	4434.6	4216.9	3965.3	3768.0	3672.8	3655.8	3683.0
22.5°	4553.6	4638.6	4373.4	4529.8	4373.4	3931.3	3628.6	3526.6	3502.8	3530.0	3553.8
25°	4815.5	4805.3	4502.6	4591.0	4145.5	3581.0	3400.8	3394.0	3394.0	3411.0	3445.0
27.5°	5111.3	4951.5	4631.8	4509.4	3751.0	3291.9	3257.9	3261.3	3251.1	3254.5	3271.5
30°	5454.8	5148.7	4774.7	4240.7	3308.9	3074.3	3060.7	3050.5	3026.7	3019.9	3026.7
32.5°	5886.7	5356.2	4920.9	3798.6	2921.2	2849.8	2843.0	2788.6	2730.8	2724.0	2747.8
35°	6434.2	5733.7	4995.7	3244.3	2601.6	2598.2	2574.4	2489.4	2414.5	2414.5	2397.5
37.5°	7060.0	6220.0	5026.3	2703.6	2336.3	2353.3	2285.3	2176.5	2118.7	2084.7	2094.9
40°	7699.3	6774.3	5022.9	2230.9	2105.1	2108.5	2057.5	1924.8	1782.0	1697.0	1717.4
42.5°	8314.8	7277.6	4934.5	1979.2	1918.0	1907.8	1867.0	1686.8	1567.7	1499.7	1503.1
45°	8808.0	7797.9	4798.5	1829.6	1748.0	1765.0	1673.2	1564.3	1455.5	1394.3	1390.9
47.5°	9301.1	8192.4	4580.8	1737.8	1622.2	1591.6	1554.1	1479.3	1397.7	1329.7	1333.1
50°	9750.0	8529.1	4376.8	1676.6	1506.5	1428.3	1435.1	1390.9	1319.5	1258.3	1254.9
52.5°	10066.2	8750.1	4264.5	1642.6	1367.1	1282.1	1305.9	1282.1	1214.1	1169.9	1166.5
55°	10382.5	8920.2	4302.0	1598.4	1214.1	1146.1	1186.9	1180.1	1142.7	1129.1	1132.5
57.5°	10637.6	9049.4	4434.6	1516.7	1067.8	1027.0	1095.0	1074.6	1047.4	1050.8	1050.8
60°	10885.8	9216.0	4591.0	1329.7	942.0	945.4	1010.0	972.6	955.6	986.2	989.6
62.5°	11144.3	9396.3	4461.8	1057.6	833.2	857.0	931.8	901.2	908.0	952.2	965.8
65°	11113.7	9379.3	3635.4	867.2	738.0	785.6	897.8	887.6	891.0	908.0	914.8
67.5°	10487.9	8780.8	2499.6	738.0	669.9	727.8	870.6	829.8	833.2	823.0	826.4
68°	10277.1	8569.9	2203.7	717.6	656.3	714.2	857.0	819.6	823.0	812.8	809.4
70°	9127.6	7338.8	1394.3	632.5	608.7	676.8	789.0	775.4	772.0	765.2	765.2
72.5°	6957.9	5417.4	734.6	547.5	554.3	618.9	704.0	731.2	714.2	717.6	738.0
75°	4608.0	3257.9	510.1	469.3	486.3	530.5	625.7	680.2	663.1	673.3	663.1
77.5°	2438.3	1754.8	408.1	397.9	397.9	428.5	516.9	601.9	601.9	595.1	584.9
80°	799.2	618.9	326.5	312.9	319.7	336.7	414.9	493.1	503.3	489.7	482.9
82.5°	268.7	285.7	244.9	227.9	234.7	248.3	312.9	377.5	380.9	353.7	346.9
85°	166.6	190.4	153.0	149.6	149.6	153.0	190.4	207.4	190.4	170.0	176.8
87.5°	78.2	95.2	71.4	61.2	51.0	44.2	34.0	13.6	13.6	6.8	6.8
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)