

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: P1211037

Luminaire Tested: **ARCH4-150-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23919 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

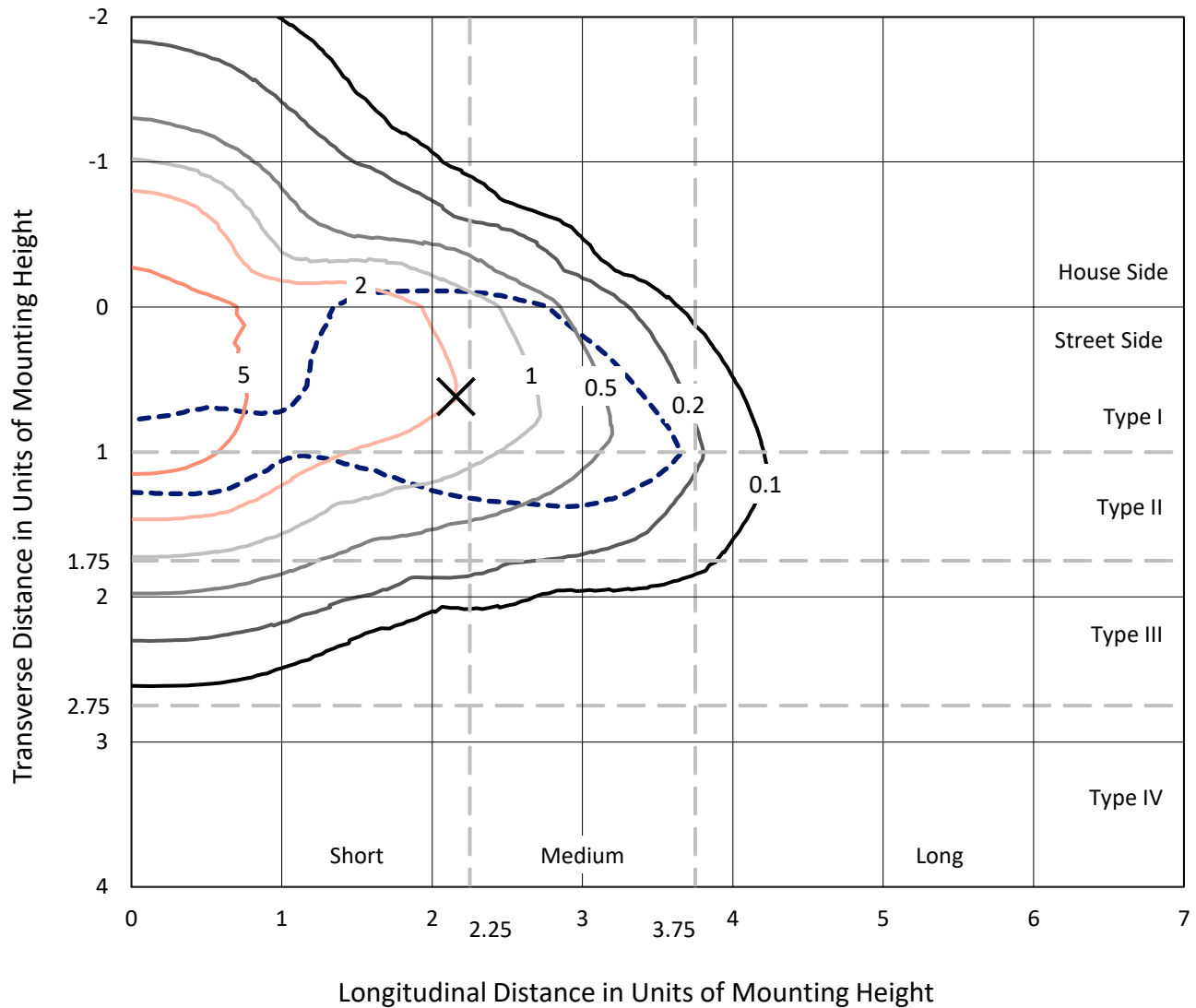
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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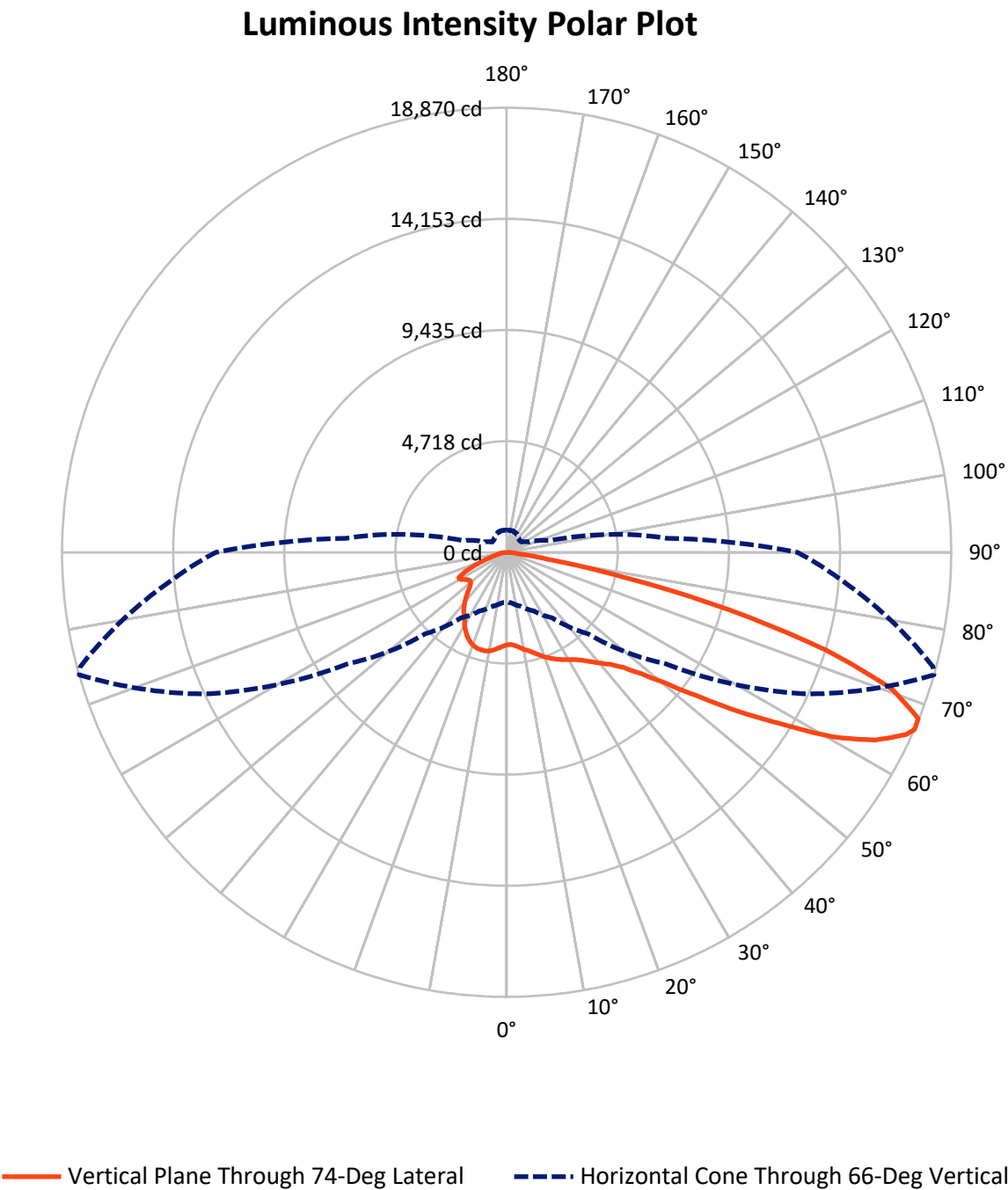
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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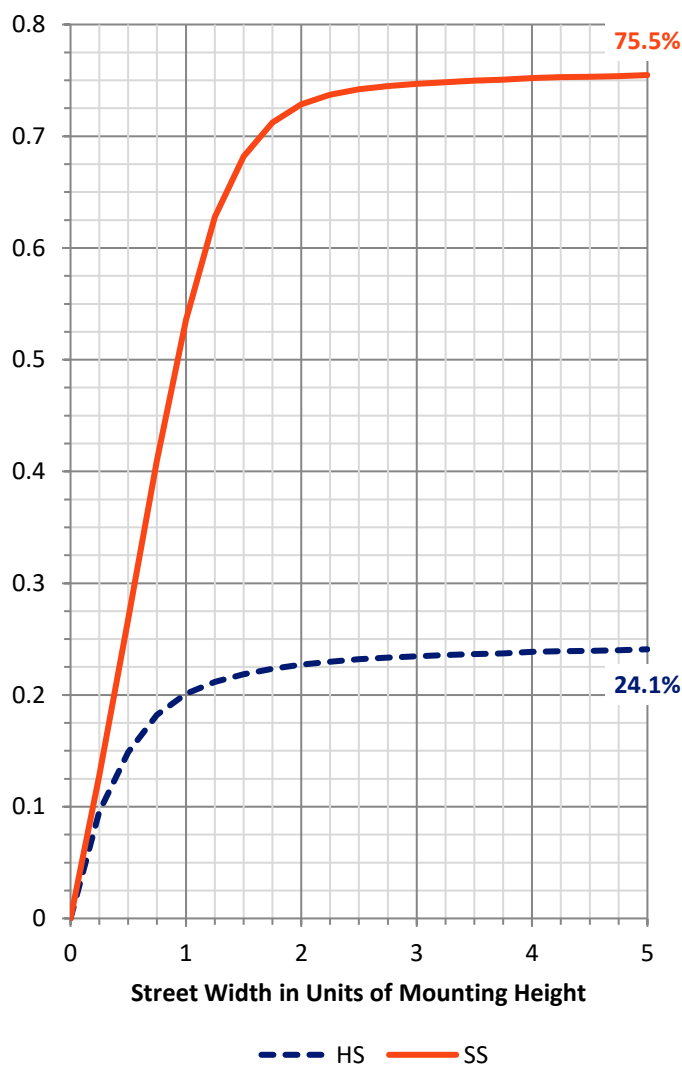
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5824.9	0.0	5824.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	18094.1	0.0	18094.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	23919.0	0.0	23919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.0	1.6
10°-20°	1150.2	4.8
20°-30°	2158.4	9.0
30°-40°	3320.2	13.9
40°-50°	4466.0	18.7
50°-60°	5281.5	22.1
60°-70°	4885.7	20.4
70°-80°	2055.4	8.6
80°-90°	227.4	1.0
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°	23919.0	100.0
0°-180°	23919.0	100.0

Coefficient of Utilization



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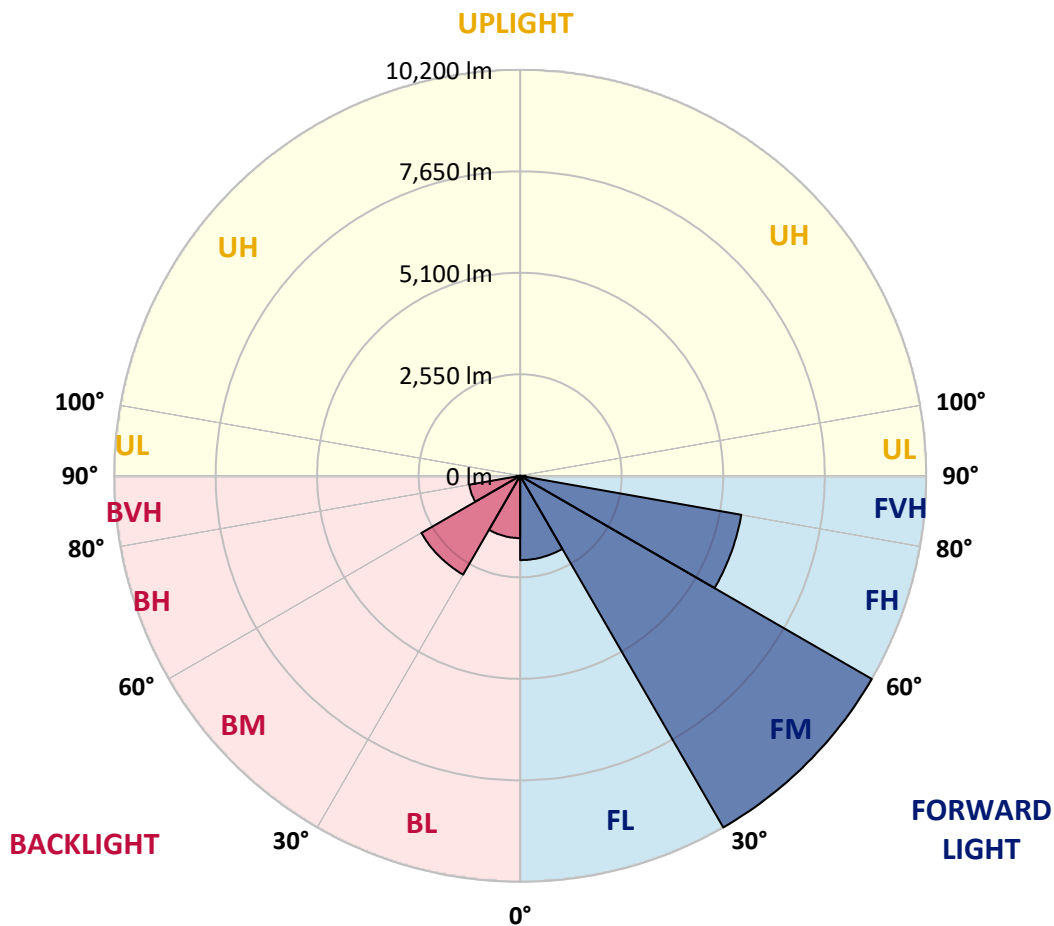
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2117.1	8.9			
FM	(30°-60°)	10200.1	42.6			
FH	(60°-80°)	5640.8	23.6			G3/7500
FVH	(80°-90°)	136.1	0.6			G2/225
BL	(0°-30°)	1565.6	6.5	B3/2500		
BM	(30°-60°)	2867.6	12.0	B3/5000		
BH	(60°-80°)	1300.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	91.4	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1
2.5°	3908.8	3902.7	3915.0	3933.4	3942.7	3927.3	3921.1	3918.0	3918.0	3908.8	3924.2
5°	3724.1	3721.1	3748.8	3782.6	3847.3	3893.4	3955.0	3991.9	3979.6	3961.1	3973.4
7.5°	3484.1	3477.9	3511.8	3576.4	3665.7	3767.2	3918.0	4035.0	4081.2	4075.0	4071.9
10°	3576.4	3570.2	3567.2	3548.7	3579.5	3678.0	3834.9	4041.2	4198.1	4201.2	4204.3
12.5°	3896.5	3911.9	3896.5	3838.0	3770.3	3733.4	3825.7	4056.5	4296.6	4315.1	4392.0
15°	4333.5	4318.2	4287.4	4219.7	4115.0	4004.2	3936.5	4127.3	4438.2	4453.6	4622.9
17.5°	4718.3	4730.6	4712.1	4647.5	4524.4	4379.7	4173.5	4250.4	4589.0	4632.1	4869.1
20°	5136.9	5186.1	5161.5	5081.5	4979.9	4764.4	4505.9	4429.0	4755.2	4786.0	5124.5
22.5°	5620.1	5672.4	5626.2	5549.3	5466.2	5201.5	4869.1	4647.5	4893.7	4958.3	5370.8
25°	6198.7	6247.9	6204.8	6084.8	5980.2	5657.0	5260.0	4893.7	5029.1	5099.9	5570.8
27.5°	6657.3	6694.2	6734.2	6663.4	6503.4	6167.9	5666.2	5149.2	5164.6	5238.4	5755.5
30°	7066.6	7159.0	7192.8	7202.1	7066.6	6691.1	6081.7	5413.9	5281.5	5358.5	5940.2
32.5°	7626.8	7765.3	7709.9	7765.3	7685.3	7183.6	6512.6	5687.8	5432.3	5503.1	6115.6
35°	8445.5	8556.3	8411.6	8368.5	8239.3	7682.2	6928.1	5970.9	5632.4	5709.3	6281.8
37.5°	9325.7	9451.9	9242.6	9070.3	8824.1	8174.6	7285.2	6343.3	5909.4	5970.9	6435.7
40°	10095.2	10199.8	10018.2	9790.5	9378.1	8608.6	7592.9	6605.0	6186.4	6263.3	6614.2
42.5°	10806.2	10873.9	10670.7	10452.2	9901.3	8999.5	7925.3	6882.0	6509.6	6583.4	6758.9
45°	11526.4	11578.7	11295.5	10984.7	10338.3	9356.5	8291.6	7269.8	6983.5	7082.0	6992.8
47.5°	11655.6	11671.0	11621.8	11412.5	10683.0	9698.2	8744.0	7789.9	7706.8	7814.5	7396.0
50°	10760.0	10898.5	11203.2	11409.4	10821.6	9984.4	9196.5	8534.7	8704.0	8842.5	8233.1
52.5°	9021.0	9153.4	9858.2	10640.0	10489.1	10049.0	9682.8	9479.6	10110.6	10276.8	9371.9
55°	7186.7	7303.6	8048.5	9174.9	9415.0	9753.6	10202.9	10686.1	11904.9	12015.7	10621.5
57.5°	5918.6	5983.2	6515.7	7599.1	7983.8	8808.7	10483.0	12120.4	13730.1	13899.4	11708.0
60°	4853.7	4924.5	5321.5	6214.1	6725.0	7457.5	10261.4	13536.2	15909.2	15909.2	13102.2
62.5°	3653.4	3714.9	4084.2	4782.9	5641.6	6312.6	9553.5	14474.9	17552.7	17478.8	14111.7
65°	2508.4	2557.7	2825.4	3290.2	4062.7	5380.0	8587.1	14487.2	18642.2	18543.8	14542.6
66°	2105.2	2148.3	2376.1	2751.6	3401.0	4881.4	8245.4	14225.6	18870.0	18731.5	14361.0
67.5°	1662.0	1692.8	1843.6	2065.2	2493.0	3951.9	7706.8	13483.8	18848.5	18765.4	13899.4
70°	1188.0	1209.6	1320.4	1366.5	1474.3	2286.8	6121.7	11809.5	17337.3	17361.9	12083.4
72.5°	920.3	954.1	1021.8	1031.1	1006.4	1215.7	3714.9	9852.0	14182.5	14173.3	8968.7
75°	741.8	760.2	794.1	812.5	806.4	784.8	1572.8	7349.8	9762.8	9876.7	5023.0
77.5°	584.8	581.7	612.5	637.1	655.6	615.6	720.2	4308.9	5118.4	4973.7	1886.7
80°	430.9	430.9	474.0	483.2	510.9	517.1	480.1	1662.0	1757.4	1597.4	489.4
82.5°	283.2	283.2	329.3	335.5	363.2	403.2	347.8	498.6	486.3	461.7	221.6
85°	153.9	147.7	163.1	184.7	200.1	237.0	209.3	249.3	255.5	252.4	147.7
87.5°	30.8	27.7	43.1	49.2	55.4	73.9	67.7	101.6	141.6	138.5	64.6
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°	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1	3921.1
2.5°	3945.7	3942.7	3976.5	4016.5	4062.7	4090.4	4102.7	4124.3	4108.9	4115.0	4133.5
5°	4004.2	4013.5	4062.7	4115.0	4136.6	4121.2	4087.3	4075.0	4047.3	4041.2	4035.0
7.5°	4090.4	4105.8	4155.0	4167.3	4102.7	3995.0	3918.0	3875.0	3828.8	3816.5	3810.3
10°	4232.0	4241.2	4253.5	4127.3	3967.3	3822.6	3727.2	3687.2	3656.4	3631.8	3638.0
12.5°	4410.5	4404.3	4308.9	4047.3	3819.6	3671.8	3607.2	3582.6	3561.0	3545.6	3542.5
15°	4635.2	4592.1	4318.2	3936.5	3681.1	3557.9	3511.8	3502.5	3477.9	3477.9	3474.8
17.5°	4862.9	4752.1	4312.0	3819.6	3548.7	3481.0	3453.3	3447.1	3441.0	3437.9	3447.1
20°	5090.7	4893.7	4262.8	3674.9	3456.4	3416.4	3410.2	3413.3	3407.1	3416.4	3410.2
22.5°	5290.7	4986.0	4170.4	3521.0	3391.7	3388.7	3373.3	3379.4	3401.0	3404.0	3413.3
25°	5444.6	5019.9	4035.0	3379.4	3345.6	3339.4	3357.9	3382.5	3401.0	3404.0	3419.4
27.5°	5570.8	5001.4	3865.7	3268.6	3265.5	3299.4	3354.8	3364.0	3367.1	3367.1	3354.8
30°	5666.2	4961.4	3650.3	3145.5	3160.9	3244.0	3296.3	3296.3	3271.7	3265.5	3284.0
32.5°	5687.8	4909.1	3416.4	3019.3	3043.9	3142.4	3207.1	3185.5	3157.8	3157.8	3170.1
35°	5706.2	4838.3	3228.6	2847.0	2883.9	3000.9	3062.4	3019.3	2988.5	2979.3	2976.2
37.5°	5700.1	4810.6	3059.3	2628.4	2677.7	2791.6	2831.6	2791.6	2745.4	2723.9	2751.6
40°	5706.2	4792.1	2847.0	2388.4	2437.6	2505.3	2557.7	2526.9	2483.8	2428.4	2456.1
42.5°	5743.2	4816.8	2613.1	2154.5	2154.5	2191.4	2280.7	2259.1	2154.5	2132.9	2157.5
45°	5940.2	4949.1	2379.1	1920.5	1886.7	1911.3	2003.6	1911.3	1846.7	1846.7	1868.2
47.5°	6417.2	5195.3	2172.9	1714.3	1634.3	1683.6	1708.2	1622.0	1572.8	1560.4	1582.0
50°	7389.8	5687.8	2049.8	1545.1	1446.6	1483.5	1468.1	1465.0	1415.8	1421.9	1434.3
52.5°	8867.1	6648.1	2012.9	1462.0	1338.8	1348.1	1332.7	1338.8	1329.6	1360.4	1369.6
55°	10476.8	7660.6	2059.0	1474.3	1265.0	1200.3	1206.5	1237.3	1274.2	1323.5	1332.7
57.5°	11680.3	8168.5	2179.1	1557.4	1172.6	1074.2	1089.5	1148.0	1218.8	1258.8	1280.4
60°	12575.9	8106.9	2354.5	1578.9	1061.8	960.3	988.0	1074.2	1135.7	1169.6	1191.1
62.5°	12868.3	7722.2	2397.6	1421.9	917.2	852.6	920.3	1009.5	1037.2	1074.2	1089.5
65°	12628.2	7177.4	2083.7	1154.2	806.4	772.5	871.0	938.7	975.7	994.1	997.2
66°	12345.1	6851.2	1914.4	1049.5	766.4	747.9	852.6	908.0	944.9	941.8	944.9
67.5°	11723.3	6167.9	1640.5	901.8	707.9	711.0	821.8	858.7	871.0	861.8	861.8
70°	9608.9	4342.8	1175.7	683.3	621.7	664.8	738.7	747.9	775.6	763.3	763.3
72.5°	5924.8	2132.9	787.9	523.2	554.0	621.7	618.6	649.4	714.0	732.5	744.8
75°	2911.6	864.9	520.1	443.2	495.5	520.1	514.0	590.9	683.3	763.3	791.0
77.5°	1104.9	430.9	363.2	387.8	400.1	390.9	409.3	535.5	683.3	827.9	855.6
80°	341.6	298.5	286.2	320.1	301.6	286.2	307.8	443.2	578.6	627.9	627.9
82.5°	206.2	233.9	221.6	218.5	203.1	206.2	221.6	317.0	446.3	467.8	467.8
85°	144.7	153.9	126.2	120.0	117.0	113.9	113.9	184.7	264.7	261.6	270.8
87.5°	55.4	61.6	46.2	46.2	43.1	30.8	24.6	30.8	30.8	21.5	15.4
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)