

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: P1211111

Luminaire Tested: **ARCH4-170-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211111
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: ARCH4-170-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27691 lumens
Efficiency: N/A
Efficacy: 163.1 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): 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

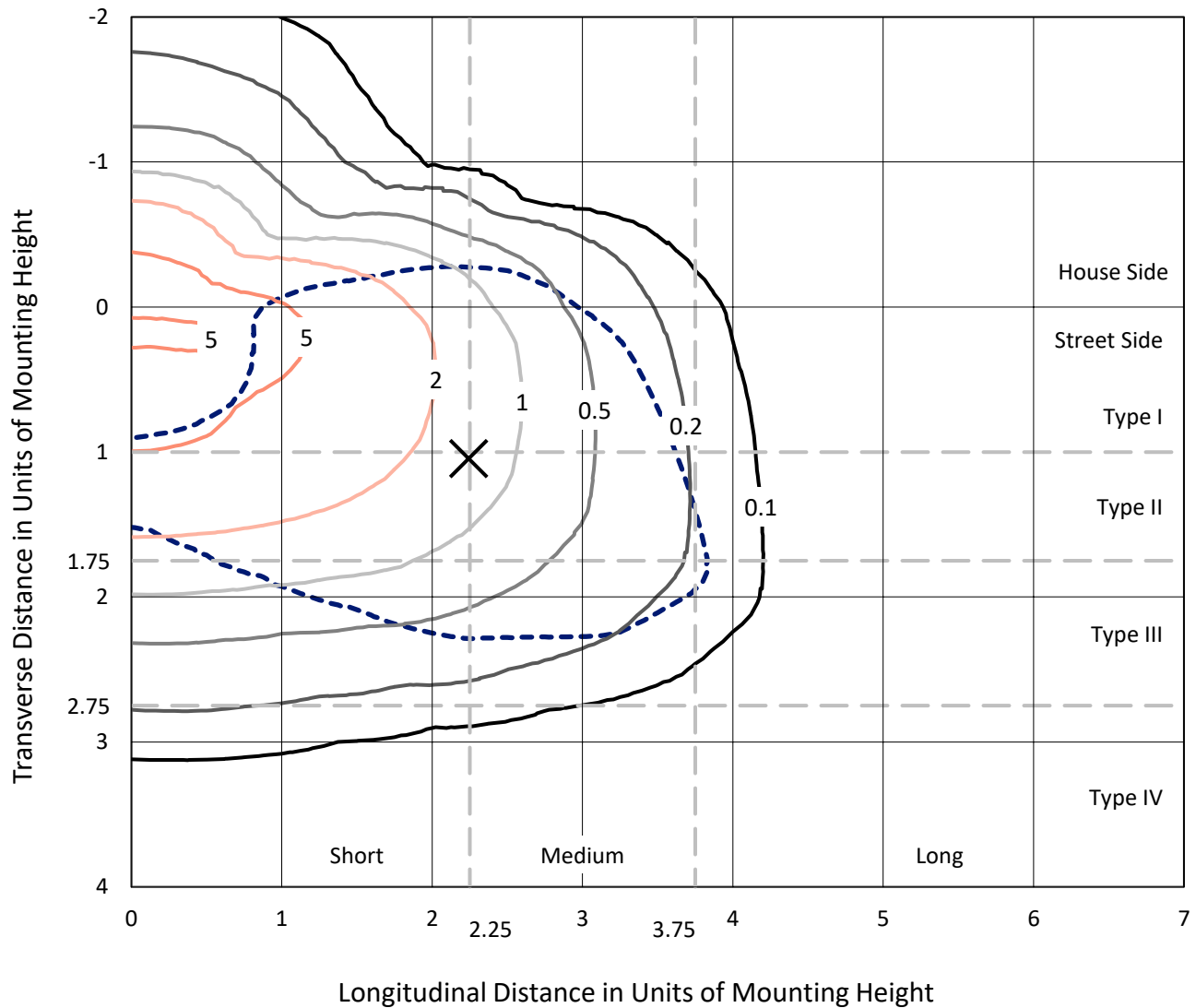


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Iso-Footcandle Lines of Horizontal Illumination

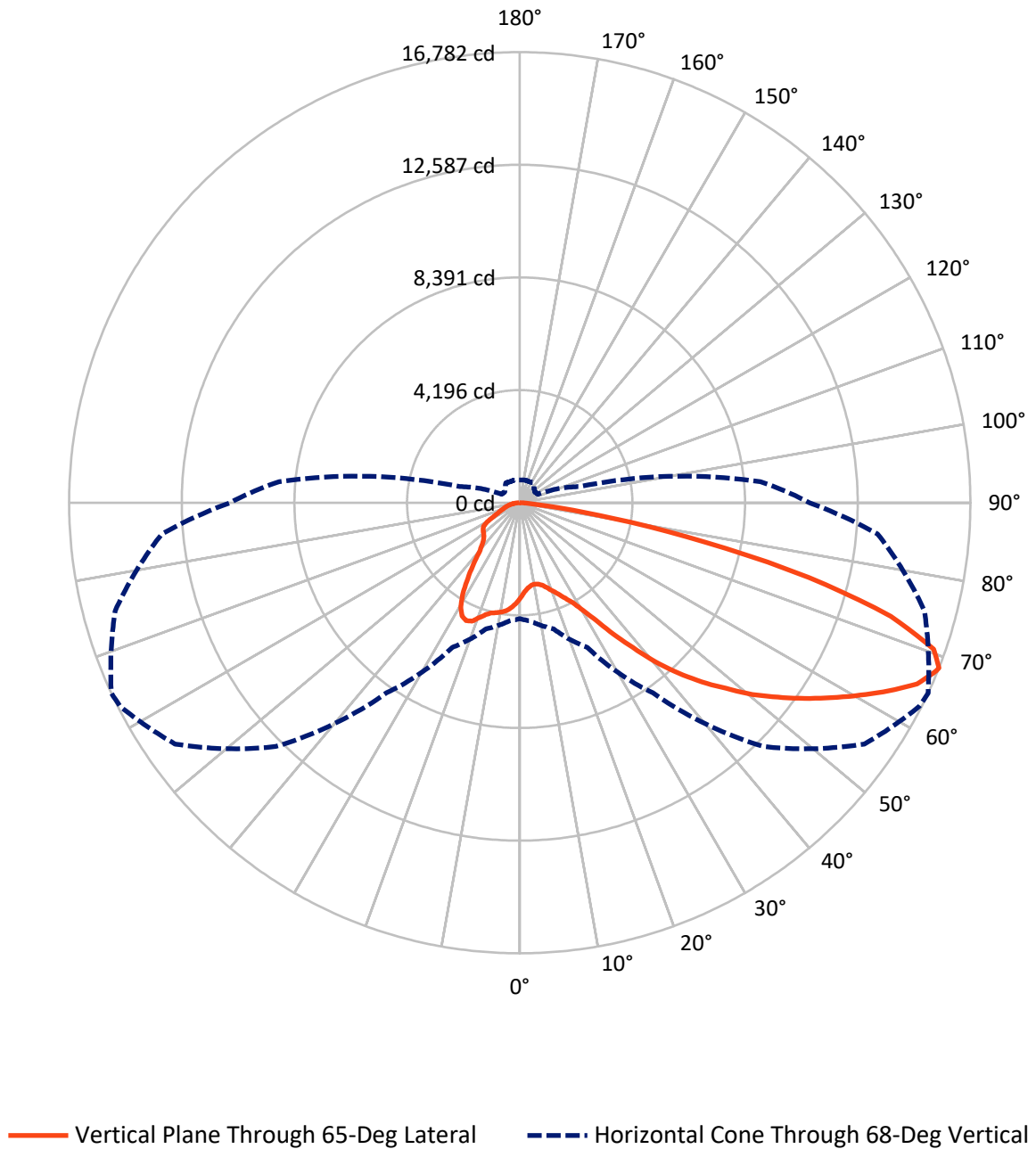
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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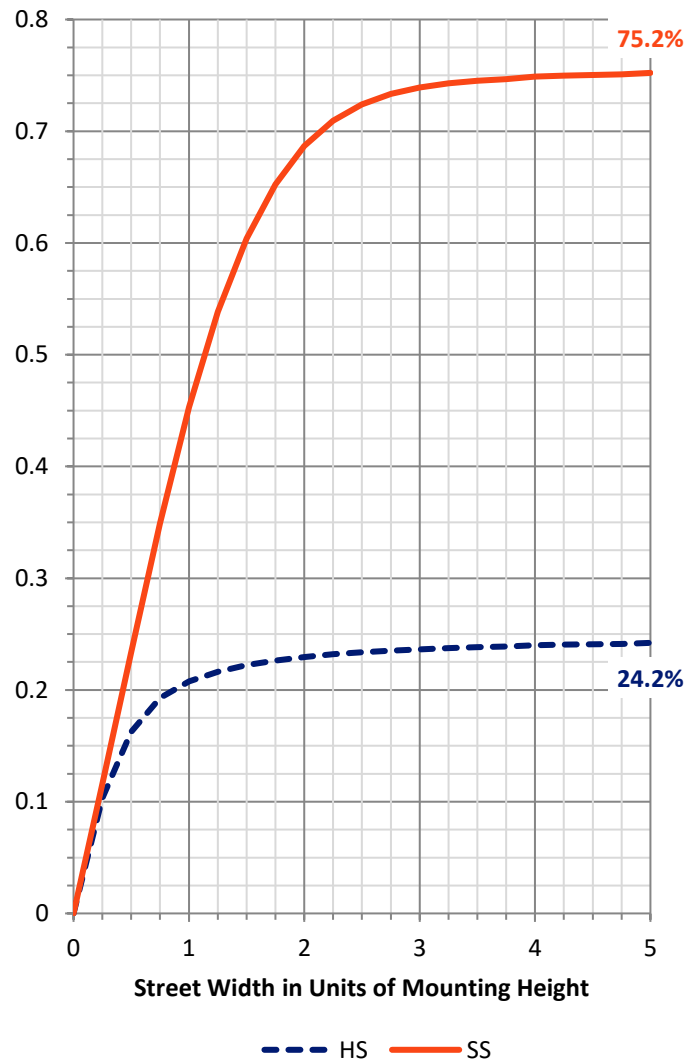
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6789.0	0.0	6789.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	20902.0	0.0	20902.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	27691.0	0.0	27691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.2	1.2
10°-20°	1101.1	4.0
20°-30°	1992.9	7.2
30°-40°	3135.1	11.3
40°-50°	4669.4	16.9
50°-60°	6125.3	22.1
60°-70°	6698.4	24.2
70°-80°	3314.5	12.0
80°-90°	316.2	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°	27691.0	100.0
0°-180°	27691.0	100.0

Coefficient of Utilization



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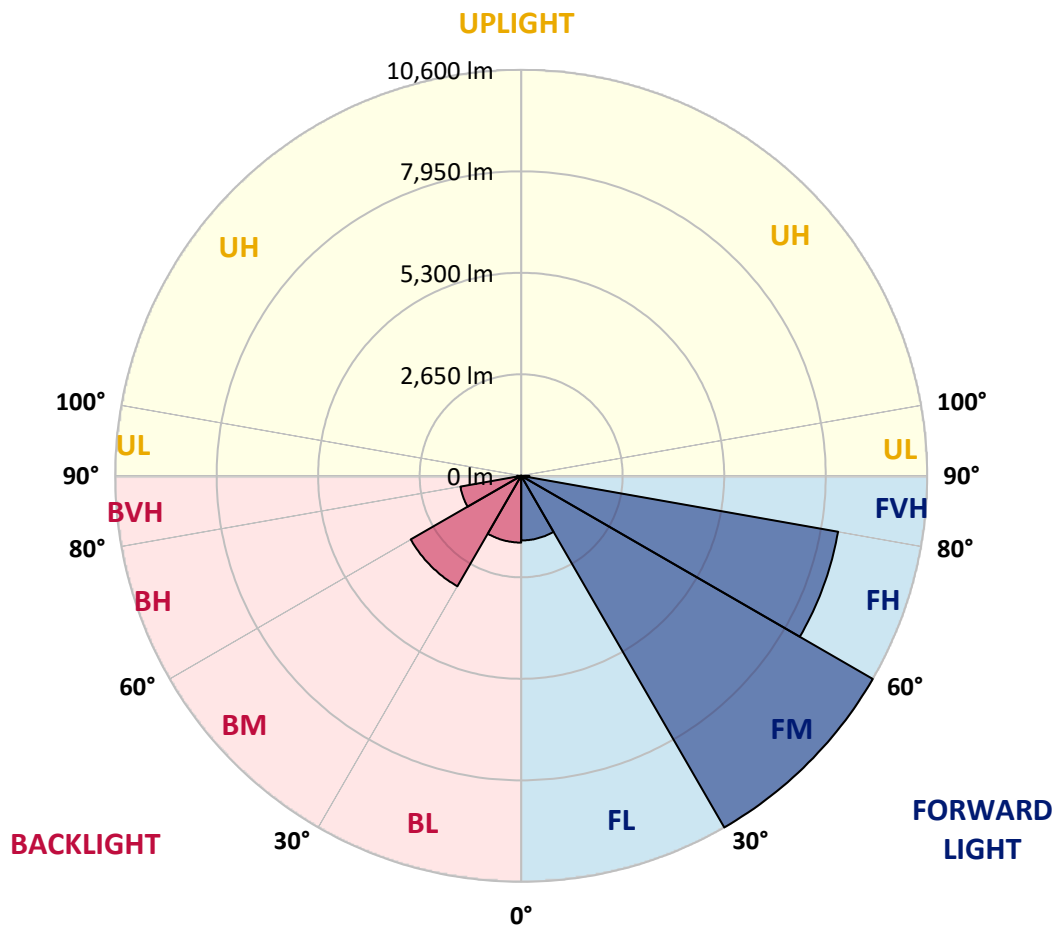
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1688.1	6.1			
FM	(30°-60°)	10599.7	38.3			
FH	(60°-80°)	8401.5	30.3			G4/12000
FVH	(80°-90°)	212.6	0.8			G2/225
BL	(0°-30°)	1744.2	6.3	B3/2500		
BM	(30°-60°)	3330.0	12.0	B3/5000		
BH	(60°-80°)	1611.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	103.5	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°	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6
2.5°	3088.7	3081.5	3099.4	3117.2	3156.5	3202.9	3267.2	3320.8	3327.9	3427.9	3506.4
5°	2906.6	2895.8	2913.7	2935.1	2953.0	3010.1	3078.0	3156.5	3188.6	3335.0	3502.9
7.5°	2924.4	2920.8	2928.0	2920.8	2920.8	2945.8	2992.3	3070.8	3106.5	3281.5	3520.7
10°	3028.0	3035.1	3038.7	3017.2	2995.8	2985.1	2999.4	3053.0	3078.0	3285.1	3599.3
12.5°	3199.4	3210.1	3213.6	3174.4	3145.8	3099.4	3074.4	3095.8	3113.7	3320.8	3710.0
15°	3431.5	3438.6	3413.6	3388.6	3317.2	3260.1	3199.4	3181.5	3188.6	3395.7	3834.9
17.5°	3702.8	3692.1	3692.1	3631.4	3538.6	3449.3	3349.3	3335.0	3335.0	3517.1	4013.5
20°	3999.2	4009.9	3977.8	3895.6	3802.8	3663.5	3563.6	3499.3	3506.4	3656.4	4231.3
22.5°	4427.7	4445.5	4359.8	4242.0	4099.2	3938.5	3795.7	3692.1	3695.7	3838.5	4456.2
25°	4888.3	4895.4	4841.9	4684.8	4492.0	4263.4	4074.2	3942.1	3938.5	4042.0	4745.5
27.5°	5359.6	5391.8	5284.7	5134.7	4956.1	4670.5	4420.5	4242.0	4213.4	4352.7	5106.1
30°	5845.3	5884.5	5781.0	5634.6	5413.2	5170.4	4874.0	4666.9	4649.1	4834.7	5588.2
32.5°	6334.4	6345.2	6263.0	6141.6	5941.7	5713.1	5473.9	5245.4	5227.5	5531.0	6213.0
35°	6734.4	6766.5	6709.4	6680.8	6534.4	6323.7	6091.6	5959.5	6005.9	6395.1	7023.6
37.5°	7216.4	7248.5	7184.3	7177.1	7130.7	6948.6	6787.9	6798.6	6845.1	7373.5	7877.0
40°	7912.7	7948.4	7784.1	7712.7	7712.7	7534.2	7480.6	7734.2	7794.9	8337.6	8766.1
42.5°	8501.9	8559.0	8462.6	8416.2	8276.9	8151.9	8216.2	8573.3	8676.8	9258.8	9540.9
45°	8787.5	8830.4	8944.6	9080.3	8944.6	8726.8	8969.6	9373.1	9519.5	10108.7	10315.8
47.5°	8941.1	8980.3	9112.5	9476.7	9569.5	9387.4	9730.2	10233.7	10333.6	10951.4	11054.9
50°	8962.5	9087.5	9258.8	9623.1	10048.0	10073.0	10494.3	11108.5	11226.3	11779.8	11704.8
52.5°	8787.5	8837.5	9191.0	9805.2	10276.5	10705.0	11326.3	11947.6	12033.3	12558.2	12279.7
55°	8501.9	8573.3	8926.8	9762.3	10497.9	11304.9	12172.5	12772.4	12868.8	13315.2	12811.7
57.5°	8244.8	8280.5	8659.0	9637.3	10719.3	11904.7	12926.0	13633.0	13697.2	13979.3	13204.5
60°	7959.1	7998.4	8376.9	9369.5	10883.5	12358.2	13711.5	14500.7	14557.8	14679.2	13661.5
62.5°	7220.0	7323.5	7798.4	8926.8	10840.7	12876.0	14550.6	15357.6	15429.0	15296.9	14022.2
65°	5863.1	6009.5	6591.5	7923.4	10440.8	13211.6	15236.2	16146.7	16268.2	15761.1	14118.6
67.5°	4552.7	4656.2	5124.0	6288.0	9037.5	13043.8	15679.0	16689.5	16725.2	15686.1	13583.0
68°	4317.0	4420.5	4866.9	5945.2	8648.3	12843.8	15668.3	16703.8	16782.3	15604.0	13375.9
70°	3302.9	3420.7	3845.7	4709.8	6970.0	11572.7	15014.8	16361.0	16350.3	14611.3	12090.4
72.5°	2063.9	2131.7	2424.5	2970.8	4609.8	8805.4	12743.9	14429.2	14457.8	11911.9	9273.1
75°	1310.5	1310.5	1296.2	1439.0	2363.8	5016.8	9473.1	11108.5	11129.9	8341.2	5845.3
77.5°	1139.1	1106.9	953.4	807.0	942.7	1949.6	5606.0	7173.6	7055.7	4492.0	2774.4
80°	960.5	907.0	782.0	649.9	607.0	610.6	2153.1	3642.1	3485.0	1617.5	921.2
82.5°	692.7	646.3	589.2	510.6	467.8	364.2	449.9	1053.4	1028.4	467.8	299.9
85°	374.9	339.2	332.1	335.6	282.1	225.0	189.2	232.1	232.1	203.5	171.4
87.5°	132.1	96.4	114.3	128.5	110.7	92.8	75.0	89.3	92.8	89.3	82.1
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°	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6	3538.6
2.5°	3552.9	3588.6	3674.3	3749.2	3802.8	3849.2	3874.2	3884.9	3909.9	3913.5	3906.4
5°	3581.4	3674.3	3802.8	3913.5	3974.2	3999.2	4006.3	4009.9	3999.2	4006.3	3999.2
7.5°	3656.4	3774.2	3956.3	4052.8	4063.5	4024.2	4027.8	4013.5	4027.8	4042.0	4042.0
10°	3770.7	3920.6	4092.0	4127.7	4081.3	4059.9	4102.7	4188.4	4217.0	4256.3	4256.3
12.5°	3920.6	4099.2	4220.6	4188.4	4145.6	4217.0	4342.0	4427.7	4456.2	4470.5	4459.8
15°	4092.0	4284.9	4345.6	4238.4	4317.0	4470.5	4513.4	4463.4	4392.0	4359.8	4377.7
17.5°	4309.8	4470.5	4434.8	4363.4	4541.9	4563.4	4424.1	4263.4	4149.2	4106.3	4134.9
20°	4538.4	4677.6	4513.4	4545.5	4656.2	4427.7	4163.4	3956.3	3856.4	3838.5	3867.1
22.5°	4781.2	4870.4	4591.9	4756.2	4591.9	4127.7	3809.9	3702.8	3677.8	3706.4	3731.4
25°	5056.1	5045.4	4727.6	4820.5	4352.7	3760.0	3570.7	3563.6	3563.6	3581.4	3617.1
27.5°	5366.8	5199.0	4863.3	4734.8	3938.5	3456.4	3420.7	3424.3	3413.6	3417.2	3435.0
30°	5727.4	5406.1	5013.3	4452.7	3474.3	3227.9	3213.6	3202.9	3177.9	3170.8	3177.9
32.5°	6180.9	5623.9	5166.8	3988.5	3067.2	2992.3	2985.1	2928.0	2867.3	2860.1	2885.1
35°	6755.8	6020.2	5245.4	3406.5	2731.6	2728.0	2703.0	2613.8	2535.2	2535.2	2517.4
37.5°	7412.8	6530.8	5277.5	2838.7	2453.1	2470.9	2399.5	2285.3	2224.6	2188.8	2199.6
40°	8084.1	7112.9	5273.9	2342.4	2210.3	2213.8	2160.3	2021.0	1871.1	1781.8	1803.2
42.5°	8730.4	7641.3	5181.1	2078.2	2013.9	2003.2	1960.3	1771.1	1646.1	1574.7	1578.3
45°	9248.1	8187.6	5038.3	1921.0	1835.3	1853.2	1756.8	1642.5	1528.3	1464.0	1460.4
47.5°	9765.9	8601.8	4809.7	1824.6	1703.2	1671.1	1631.8	1553.3	1467.6	1396.1	1399.7
50°	10237.2	8955.3	4595.5	1760.4	1581.8	1499.7	1506.8	1460.4	1385.4	1321.2	1317.6
52.5°	10569.3	9187.4	4477.7	1724.7	1435.4	1346.2	1371.2	1346.2	1274.7	1228.3	1224.8
55°	10901.4	9366.0	4516.9	1678.2	1274.7	1203.3	1246.2	1239.0	1199.8	1185.5	1189.0
57.5°	11169.2	9501.7	4656.2	1592.5	1121.2	1078.4	1149.8	1128.3	1099.8	1103.3	1103.3
60°	11429.8	9676.6	4820.5	1396.1	989.1	992.7	1060.5	1021.2	1003.4	1035.5	1039.1
62.5°	11701.2	9865.9	4684.8	1110.5	874.8	899.8	978.4	946.2	953.4	999.8	1014.1
65°	11669.1	9848.0	3817.1	910.5	774.8	824.8	942.7	932.0	935.5	953.4	960.5
67.5°	11012.1	9219.6	2624.5	774.8	703.4	764.1	914.1	871.3	874.8	864.1	867.7
68°	10790.7	8998.2	2313.8	753.4	689.1	749.8	899.8	860.5	864.1	853.4	849.8
70°	9583.8	7705.6	1464.0	664.2	639.2	710.6	828.4	814.1	810.6	803.4	803.4
72.5°	7305.7	5688.1	771.3	574.9	582.0	649.9	739.1	767.7	749.8	753.4	774.8
75°	4838.3	3420.7	535.6	492.8	510.6	557.0	657.0	714.1	696.3	707.0	696.3
77.5°	2560.2	1842.5	428.5	417.8	417.8	449.9	542.7	632.0	632.0	624.9	614.2
80°	839.1	649.9	342.8	328.5	335.6	353.5	435.6	517.8	528.5	514.2	507.0
82.5°	282.1	299.9	257.1	239.2	246.4	260.7	328.5	396.3	399.9	371.4	364.2
85°	175.0	200.0	160.7	157.1	157.1	160.7	200.0	217.8	200.0	178.5	185.7
87.5°	82.1	100.0	75.0	64.3	53.6	46.4	35.7	14.3	14.3	7.1	7.1
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)