

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: P1210921

Luminaire Tested: **ARCH4-110-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210921
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: ARCH4-110-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19420 lumens
Efficiency: N/A
Efficacy: 172.5 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): 112.6
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

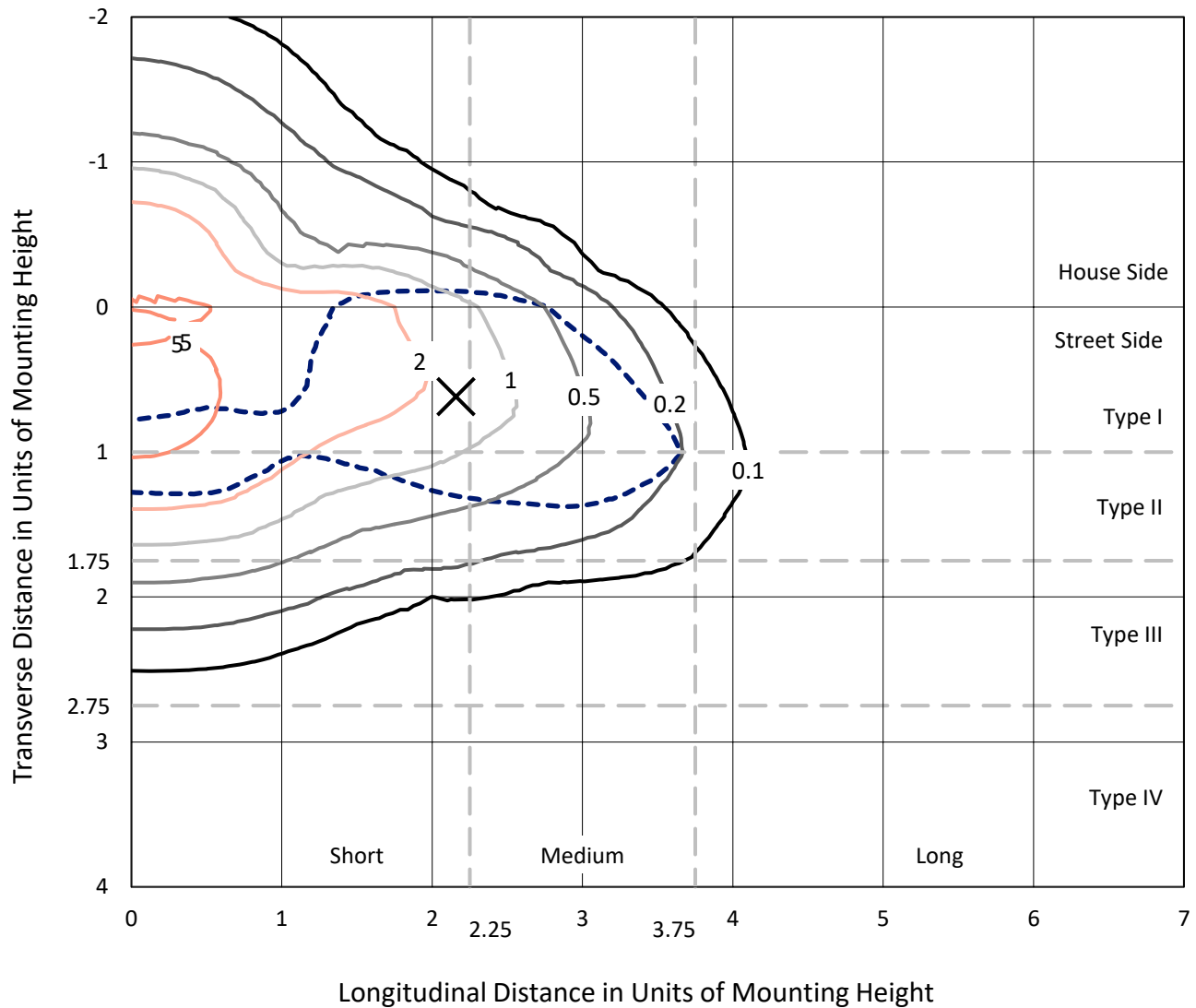


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Iso-Footcandle Lines of Horizontal Illumination

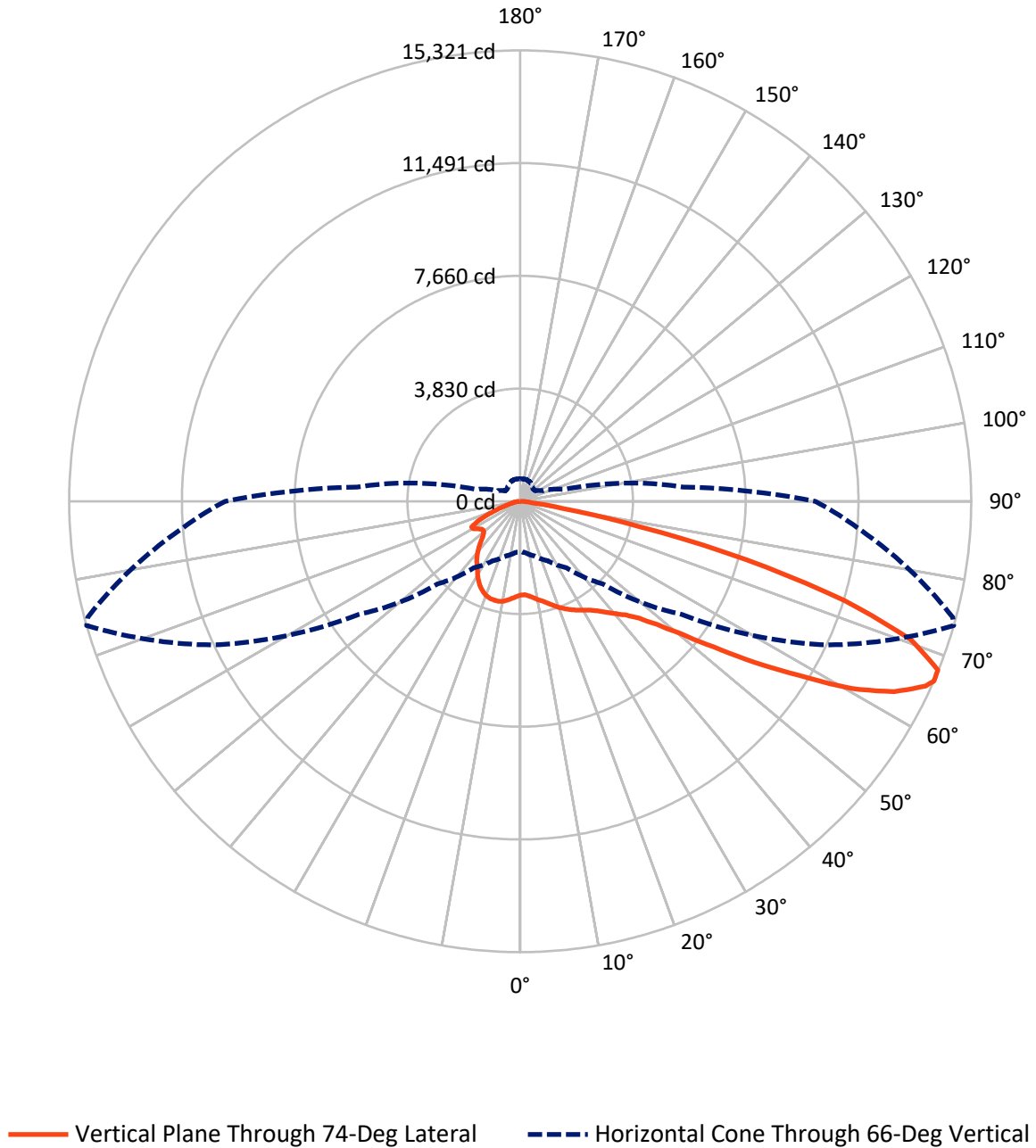
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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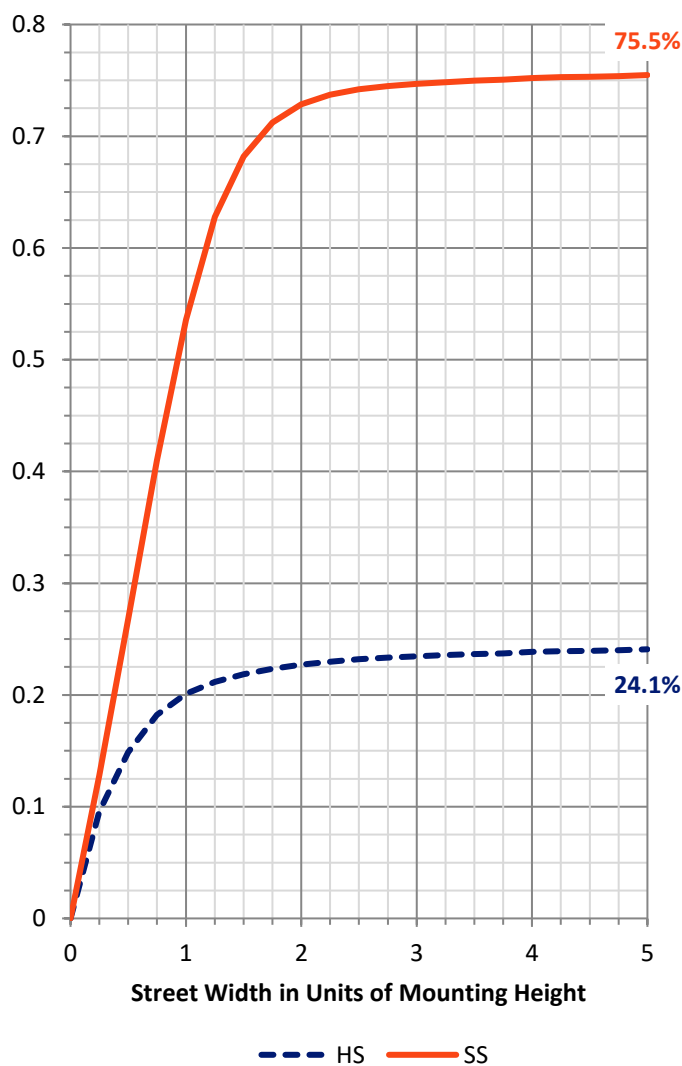
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4729.3	0.0	4729.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	14690.7	0.0	14690.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	19420.0	0.0	19420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	1.6
10°-20°	933.9	4.8
20°-30°	1752.5	9.0
30°-40°	2695.7	13.9
40°-50°	3625.9	18.7
50°-60°	4288.1	22.1
60°-70°	3966.7	20.4
70°-80°	1668.8	8.6
80°-90°	184.7	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°	19420.0	100.0
0°-180°	19420.0	100.0

Coefficient of Utilization



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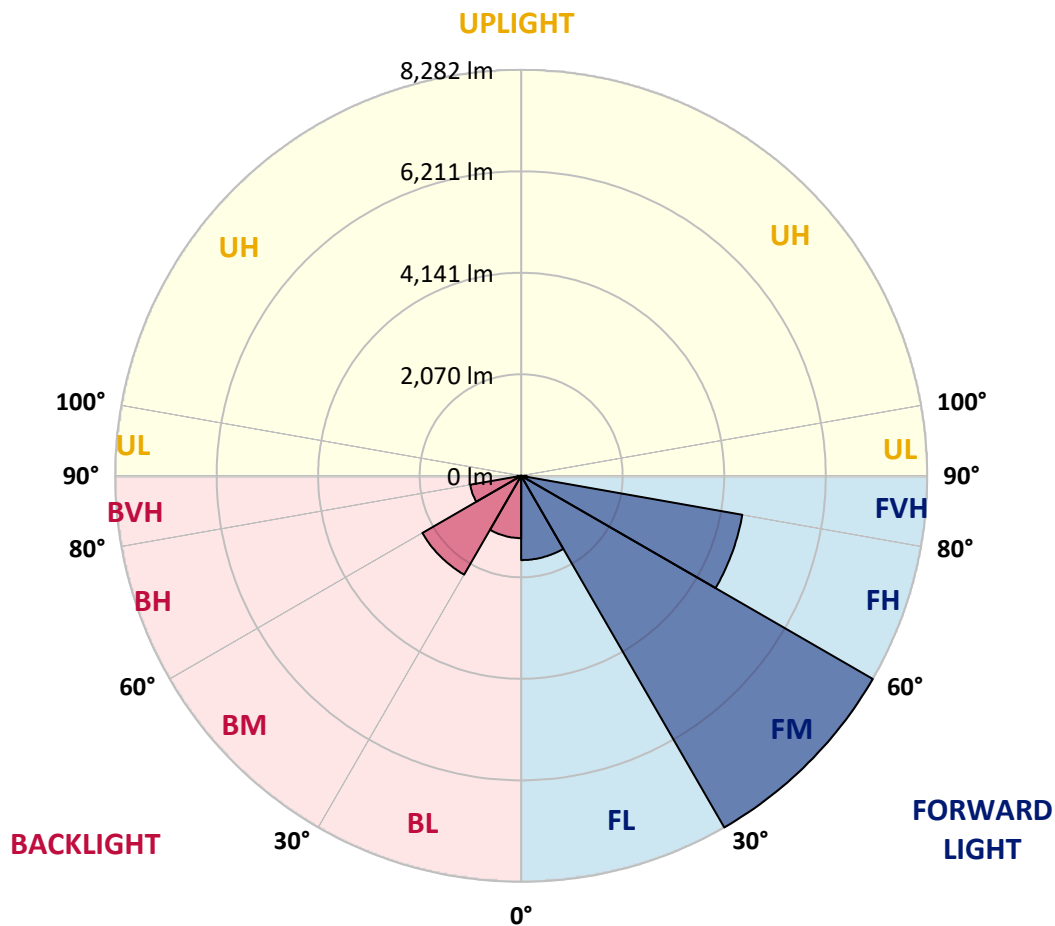
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1718.9	8.9			
FM	(30°-60°)	8281.5	42.6			
FH	(60°-80°)	4579.8	23.6			G2/5000
FVH	(80°-90°)	110.5	0.6			G2/225
BL	(0°-30°)	1271.1	6.5	B3/2500		
BM	(30°-60°)	2328.2	12.0	B2/2500		
BH	(60°-80°)	1055.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	74.2	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°	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6
2.5°	3173.6	3168.6	3178.6	3193.6	3201.1	3188.6	3183.6	3181.1	3181.1	3173.6	3186.1
5°	3023.7	3021.2	3043.6	3071.1	3123.6	3161.1	3211.1	3241.1	3231.1	3216.1	3226.1
7.5°	2828.7	2823.7	2851.2	2903.7	2976.2	3058.6	3181.1	3276.0	3313.5	3308.5	3306.0
10°	2903.7	2898.7	2896.2	2881.2	2906.2	2986.2	3113.6	3281.0	3408.5	3411.0	3413.5
12.5°	3163.6	3176.1	3163.6	3116.1	3061.1	3031.2	3106.1	3293.5	3488.4	3503.4	3565.9
15°	3518.4	3505.9	3481.0	3426.0	3341.0	3251.1	3196.1	3351.0	3603.4	3615.9	3753.3
17.5°	3830.8	3840.8	3825.8	3773.3	3673.4	3555.9	3388.5	3451.0	3725.8	3760.8	3953.2
20°	4170.6	4210.6	4190.6	4125.7	4043.2	3868.3	3658.4	3595.9	3860.8	3885.8	4160.6
22.5°	4563.0	4605.5	4568.0	4505.5	4438.0	4223.1	3953.2	3773.3	3973.2	4025.7	4360.6
25°	5032.8	5072.7	5037.8	4940.3	4855.3	4593.0	4270.6	3973.2	4083.2	4140.7	4523.0
27.5°	5405.1	5435.1	5467.6	5410.1	5280.2	5007.8	4600.5	4180.6	4193.1	4253.1	4672.9
30°	5737.4	5812.4	5839.9	5847.4	5737.4	5432.6	4937.8	4395.5	4288.1	4350.6	4822.9
32.5°	6192.2	6304.7	6259.7	6304.7	6239.7	5832.4	5287.6	4617.9	4410.5	4468.0	4965.3
35°	6856.9	6946.9	6829.5	6794.5	6689.5	6237.2	5625.0	4847.8	4573.0	4635.4	5100.2
37.5°	7571.6	7674.1	7504.2	7364.2	7164.3	6637.0	5914.9	5150.2	4797.9	4847.8	5225.2
40°	8196.4	8281.3	8133.9	7949.0	7614.1	6989.4	6164.8	5362.6	5022.8	5085.2	5370.1
42.5°	8773.6	8828.6	8663.6	8486.2	8038.9	7306.7	6434.6	5587.5	5285.1	5345.1	5487.6
45°	9358.3	9400.8	9170.9	8918.5	8393.8	7596.6	6732.0	5902.4	5670.0	5749.9	5677.5
47.5°	9463.3	9475.8	9435.8	9265.9	8673.6	7874.0	7099.3	6324.7	6257.2	6344.7	6004.8
50°	8736.1	8848.6	9096.0	9263.4	8786.1	8106.4	7466.7	6929.4	7066.9	7179.3	6684.5
52.5°	7324.2	7431.7	8003.9	8638.7	8516.2	8158.9	7861.5	7696.6	8208.8	8343.8	7609.1
55°	5834.9	5929.9	6534.6	7449.2	7644.1	7919.0	8283.8	8676.1	9665.7	9755.7	8623.7
57.5°	4805.4	4857.8	5290.1	6169.8	6482.1	7151.8	8511.2	9840.6	11147.5	11285.0	9505.8
60°	3940.7	3998.2	4320.6	5045.3	5460.1	6054.8	8331.3	10990.1	12916.8	12916.8	10637.8
62.5°	2966.2	3016.2	3316.0	3883.3	4580.5	5125.2	7756.5	11752.3	14251.2	14191.2	11457.4
65°	2036.6	2076.6	2294.0	2671.3	3298.5	4368.1	6971.9	11762.3	15135.8	15055.8	11807.2
66°	1709.2	1744.2	1929.1	2234.0	2761.3	3963.2	6694.5	11549.9	15320.7	15208.2	11659.8
67.5°	1349.4	1374.4	1496.8	1676.8	2024.1	3208.6	6257.2	10947.6	15303.2	15235.7	11285.0
70°	964.6	982.1	1072.0	1109.5	1197.0	1856.7	4970.3	9588.2	14076.2	14096.2	9810.6
72.5°	747.2	774.7	829.6	837.1	817.1	987.1	3016.2	7998.9	11514.9	11507.4	7281.8
75°	602.2	617.2	644.7	659.7	654.7	637.2	1276.9	5967.3	7926.5	8018.9	4078.2
77.5°	474.8	472.3	497.3	517.3	532.3	499.8	584.7	3498.4	4155.7	4038.2	1531.8
80°	349.8	349.8	384.8	392.3	414.8	419.8	389.8	1349.4	1426.9	1296.9	397.3
82.5°	229.9	229.9	267.4	272.4	294.9	327.4	282.4	404.8	394.8	374.8	179.9
85°	124.9	119.9	132.4	149.9	162.4	192.4	169.9	202.4	207.4	204.9	119.9
87.5°	25.0	22.5	35.0	40.0	45.0	60.0	55.0	82.5	114.9	112.4	52.5
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°	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6
2.5°	3203.6	3201.1	3228.6	3261.0	3298.5	3321.0	3331.0	3348.5	3336.0	3341.0	3356.0
5°	3251.1	3258.6	3298.5	3341.0	3358.5	3346.0	3318.5	3308.5	3286.0	3281.0	3276.0
7.5°	3321.0	3333.5	3373.5	3383.5	3331.0	3243.6	3181.1	3146.1	3108.6	3098.6	3093.6
10°	3436.0	3443.5	3453.5	3351.0	3221.1	3103.6	3026.2	2993.7	2968.7	2948.7	2953.7
12.5°	3580.9	3575.9	3498.4	3286.0	3101.1	2981.2	2928.7	2908.7	2891.2	2878.7	2876.2
15°	3763.3	3728.3	3505.9	3196.1	2988.7	2888.7	2851.2	2843.7	2823.7	2823.7	2821.2
17.5°	3948.2	3858.3	3500.9	3101.1	2881.2	2826.2	2803.8	2798.8	2793.8	2791.3	2798.8
20°	4133.2	3973.2	3461.0	2983.7	2806.3	2773.8	2768.8	2771.3	2766.3	2773.8	2768.8
22.5°	4295.6	4048.2	3386.0	2858.7	2753.8	2751.3	2738.8	2743.8	2761.3	2763.8	2771.3
25°	4420.5	4075.7	3276.0	2743.8	2716.3	2711.3	2726.3	2746.3	2761.3	2763.8	2776.3
27.5°	4523.0	4060.7	3138.6	2653.8	2651.3	2678.8	2723.8	2731.3	2733.8	2733.8	2723.8
30°	4600.5	4028.2	2963.7	2553.9	2566.4	2633.8	2676.3	2676.3	2656.3	2651.3	2666.3
32.5°	4617.9	3985.7	2773.8	2451.4	2471.4	2551.4	2603.8	2586.3	2563.9	2563.9	2573.9
35°	4632.9	3928.3	2621.3	2311.5	2341.5	2436.4	2486.4	2451.4	2426.4	2418.9	2416.4
37.5°	4627.9	3905.8	2483.9	2134.1	2174.0	2266.5	2299.0	2266.5	2229.0	2211.5	2234.0
40°	4632.9	3890.8	2311.5	1939.1	1979.1	2034.1	2076.6	2051.6	2016.6	1971.6	1994.1
42.5°	4662.9	3910.8	2121.6	1749.2	1749.2	1779.2	1851.7	1834.2	1749.2	1731.7	1751.7
45°	4822.9	4018.2	1931.6	1559.3	1531.8	1551.8	1626.8	1551.8	1499.3	1499.3	1516.8
47.5°	5210.2	4218.1	1764.2	1391.9	1326.9	1366.9	1386.9	1316.9	1276.9	1266.9	1284.4
50°	5999.8	4617.9	1664.3	1254.4	1174.5	1204.5	1192.0	1189.5	1149.5	1154.5	1164.5
52.5°	7199.3	5397.6	1634.3	1187.0	1087.0	1094.5	1082.0	1087.0	1079.5	1104.5	1112.0
55°	8506.2	6219.7	1671.8	1197.0	1027.0	974.6	979.6	1004.6	1034.5	1074.5	1082.0
57.5°	9483.3	6632.0	1769.2	1264.4	952.1	872.1	884.6	932.1	989.6	1022.0	1039.5
60°	10210.5	6582.1	1911.6	1281.9	862.1	779.7	802.1	872.1	922.1	949.6	967.1
62.5°	10447.9	6269.7	1946.6	1154.5	744.7	692.2	747.2	819.6	842.1	872.1	884.6
65°	10252.9	5827.4	1691.7	937.1	654.7	627.2	707.2	762.2	792.1	807.1	809.6
66°	10023.0	5562.5	1554.3	852.1	622.2	607.2	692.2	737.2	767.2	764.7	767.2
67.5°	9518.3	5007.8	1331.9	732.2	574.7	577.2	667.2	697.2	707.2	699.7	699.7
70°	7801.5	3525.9	954.6	554.8	504.8	539.8	599.7	607.2	629.7	619.7	619.7
72.5°	4810.4	1731.7	639.7	424.8	449.8	504.8	502.3	527.3	579.7	594.7	604.7
75°	2363.9	702.2	422.3	359.8	402.3	422.3	417.3	479.8	554.8	619.7	642.2
77.5°	897.1	349.8	294.9	314.9	324.9	317.4	332.4	434.8	554.8	672.2	694.7
80°	277.4	242.4	232.4	259.9	244.9	232.4	249.9	359.8	469.8	509.8	509.8
82.5°	167.4	189.9	179.9	177.4	164.9	167.4	179.9	257.4	362.3	379.8	379.8
85°	117.4	124.9	102.5	97.5	95.0	92.5	92.5	149.9	214.9	212.4	219.9
87.5°	45.0	50.0	37.5	37.5	35.0	25.0	20.0	25.0	25.0	17.5	12.5
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)