

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: P1210997

Luminaire Tested: **ARCH4-140-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210997
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: ARCH4-140-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19802 lumens
Efficiency: N/A
Efficacy: 140.1 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): 141.3
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

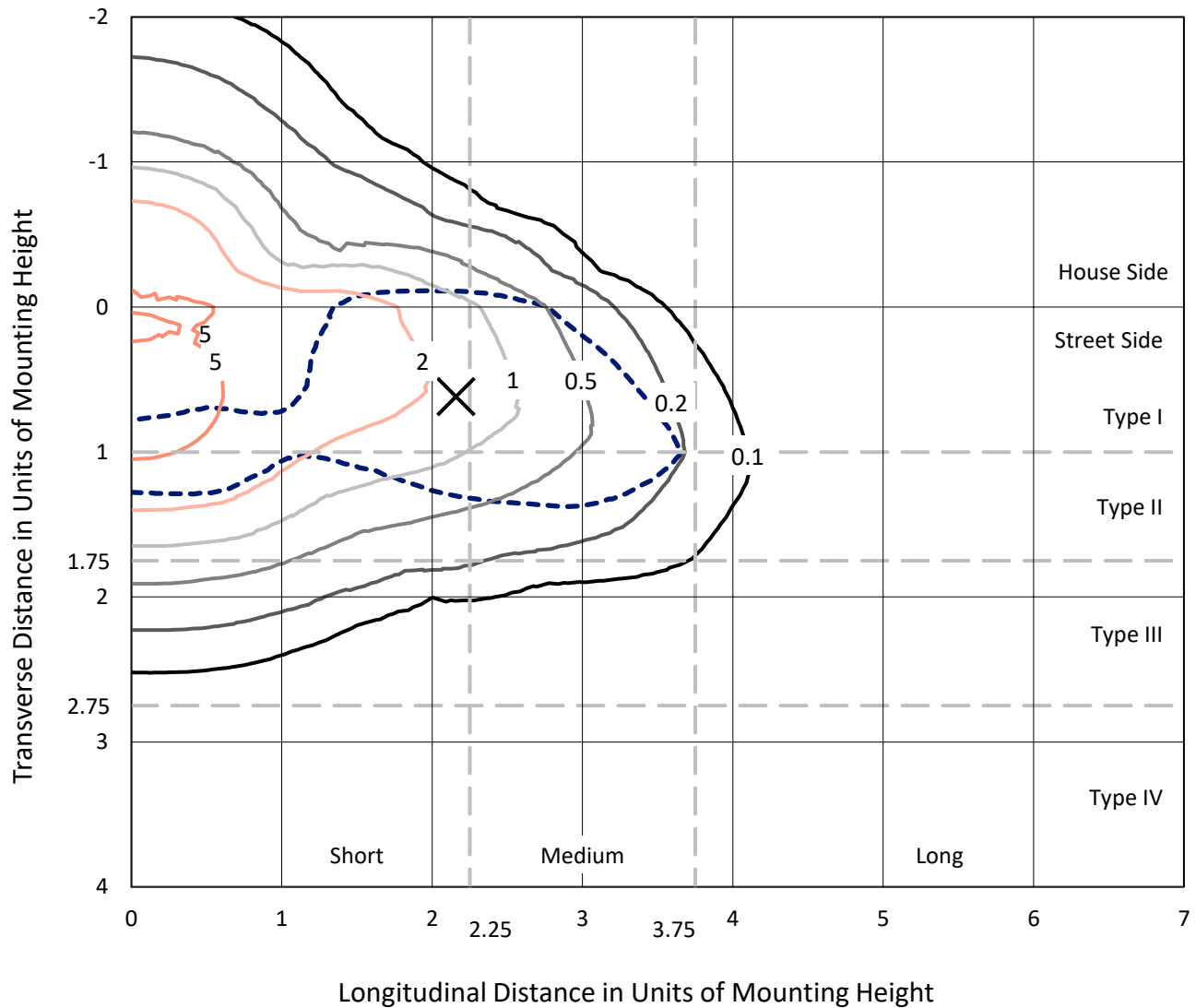


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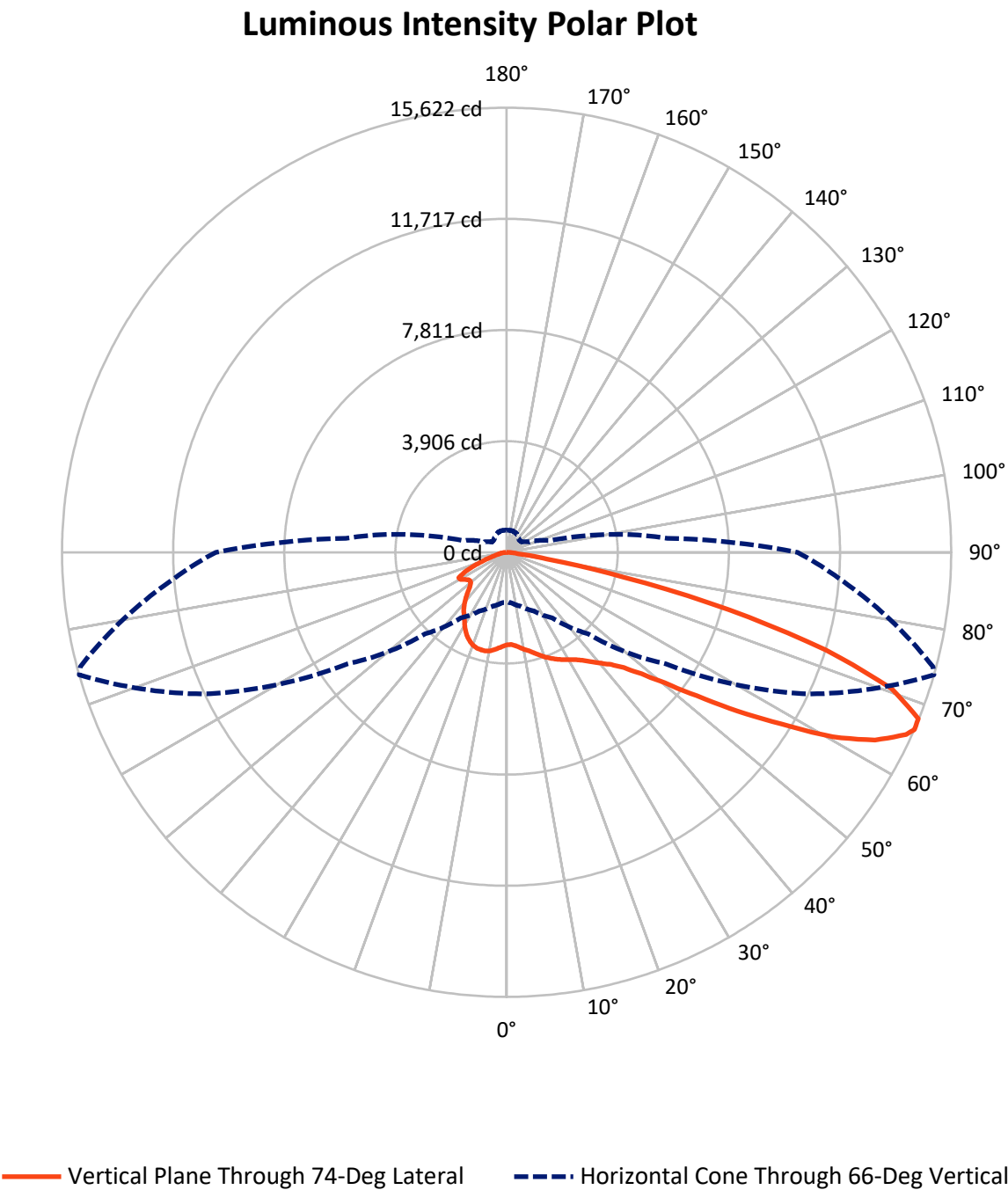
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Short - N/A

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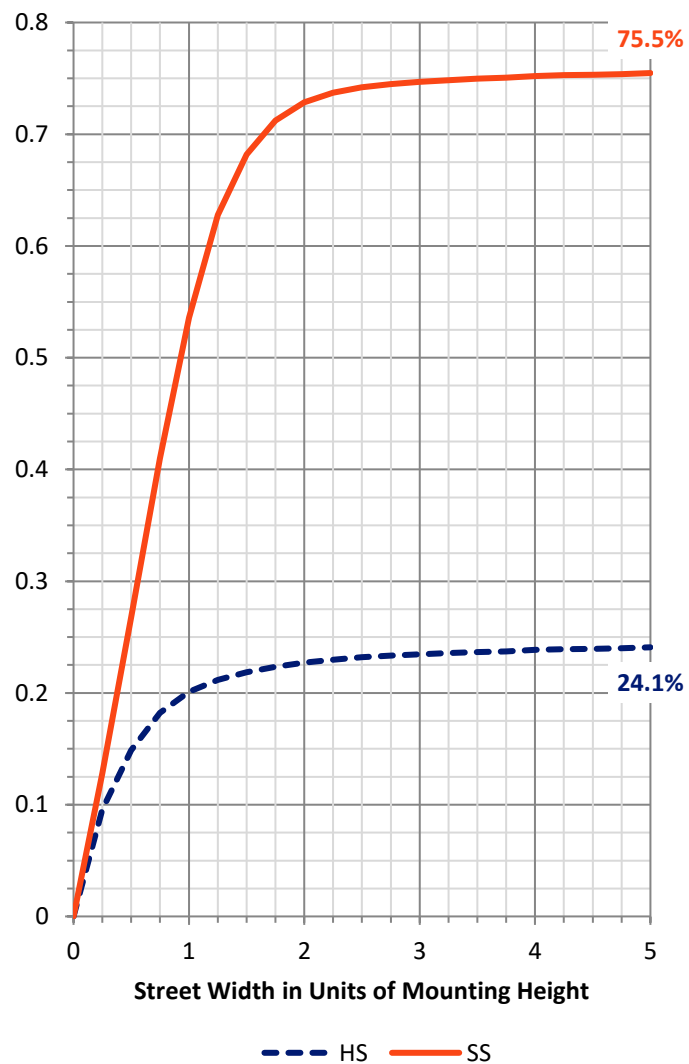
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4822.3	0.0	4822.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	14979.7	0.0	14979.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	19802.0	0.0	19802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.7	1.6
10°-20°	952.3	4.8
20°-30°	1786.9	9.0
30°-40°	2748.7	13.9
40°-50°	3697.3	18.7
50°-60°	4372.5	22.1
60°-70°	4044.8	20.4
70°-80°	1701.6	8.6
80°-90°	188.3	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°	19802.0	100.0
0°-180°	19802.0	100.0

Coefficient of Utilization



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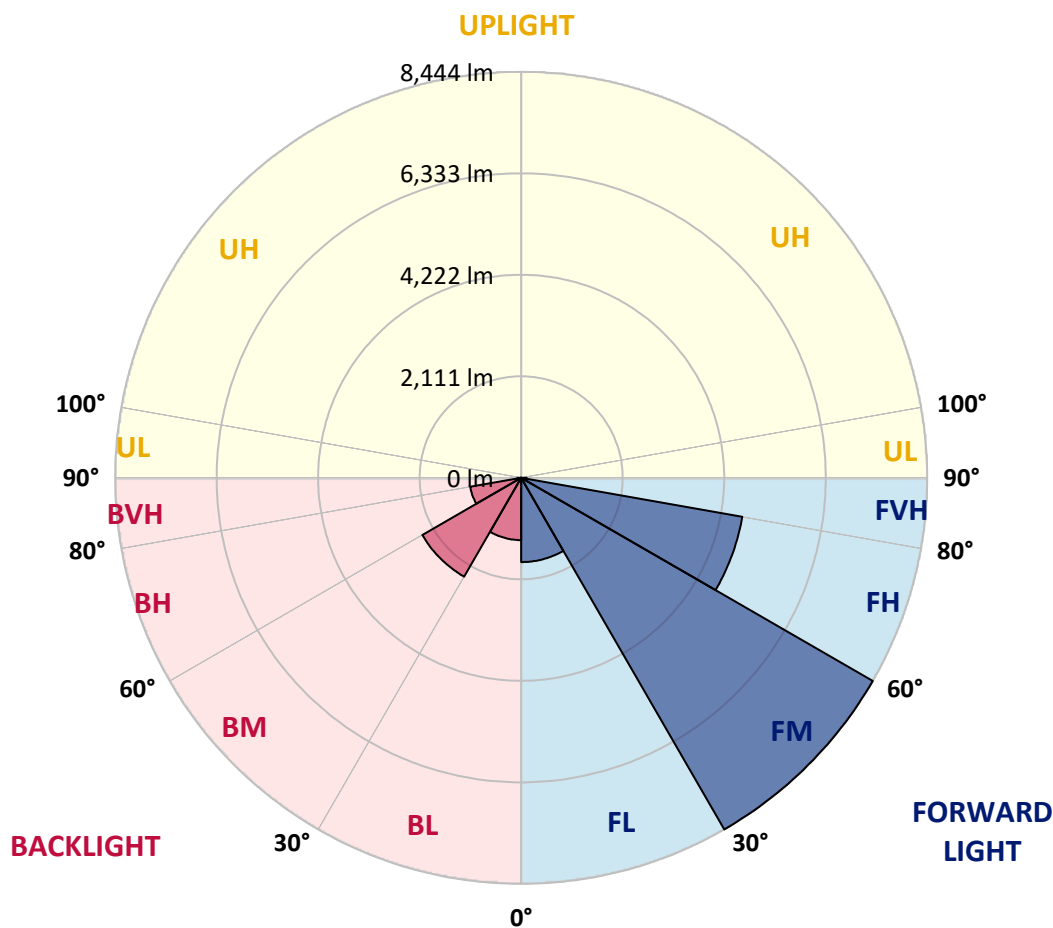
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1752.7	8.9			
FM	(30°-60°)	8444.4	42.6			
FH	(60°-80°)	4669.9	23.6			G2/5000
FVH	(80°-90°)	112.7	0.6			G2/225
BL	(0°-30°)	1296.1	6.5	B3/2500		
BM	(30°-60°)	2374.0	12.0	B2/2500		
BH	(60°-80°)	1076.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	75.6	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2
2.5°	3236.0	3230.9	3241.1	3256.4	3264.0	3251.3	3246.2	3243.7	3243.7	3236.0	3248.8
5°	3083.1	3080.6	3103.5	3131.5	3185.1	3223.3	3274.2	3304.8	3294.6	3279.3	3289.5
7.5°	2884.4	2879.3	2907.3	2960.8	3034.7	3118.8	3243.7	3340.5	3378.7	3373.6	3371.1
10°	2960.8	2955.7	2953.2	2937.9	2963.4	3044.9	3174.9	3345.6	3475.5	3478.1	3480.6
12.5°	3225.8	3238.6	3225.8	3177.4	3121.4	3090.8	3167.2	3358.3	3557.1	3572.4	3636.1
15°	3587.6	3574.9	3549.4	3493.4	3406.7	3315.0	3258.9	3416.9	3674.3	3687.0	3827.2
17.5°	3906.1	3916.3	3901.1	3847.5	3745.6	3625.9	3455.1	3518.8	3799.1	3834.8	4031.0
20°	4252.7	4293.5	4273.1	4206.8	4122.7	3944.4	3730.3	3666.6	3936.7	3962.2	4242.5
22.5°	4652.7	4696.0	4657.8	4594.1	4525.3	4306.2	4031.0	3847.5	4051.4	4104.9	4446.3
25°	5131.8	5172.5	5136.9	5037.5	4950.8	4683.3	4354.6	4051.4	4163.5	4222.1	4612.0
27.5°	5511.4	5542.0	5575.1	5516.5	5384.0	5106.3	4690.9	4262.9	4275.6	4336.8	4764.8
30°	5850.3	5926.7	5954.8	5962.4	5850.3	5539.4	5034.9	4482.0	4372.4	4436.1	4917.7
32.5°	6314.0	6428.7	6382.8	6428.7	6362.5	5947.1	5391.7	4708.8	4497.3	4555.9	5063.0
35°	6991.8	7083.6	6963.8	6928.1	6821.1	6359.9	5735.6	4943.2	4662.9	4726.6	5200.6
37.5°	7720.6	7825.0	7651.8	7509.1	7305.2	6767.6	6031.2	5251.5	4892.2	4943.2	5328.0
40°	8357.6	8444.2	8293.9	8105.3	7763.9	7126.9	6286.0	5468.1	5121.6	5185.3	5475.7
42.5°	8946.2	9002.2	8834.1	8653.2	8197.1	7450.5	6561.2	5697.4	5389.1	5450.3	5595.5
45°	9542.4	9585.7	9351.3	9094.0	8558.9	7746.0	6864.4	6018.5	5781.5	5863.0	5789.2
47.5°	9649.4	9662.2	9621.4	9448.1	8844.3	8028.9	7239.0	6449.1	6380.3	6469.5	6122.9
50°	8908.0	9022.6	9274.9	9445.6	8958.9	8265.8	7613.6	7065.7	7205.9	7320.5	6816.0
52.5°	7468.3	7577.9	8161.4	8808.6	8683.7	8319.4	8016.1	7848.0	8370.3	8507.9	7758.8
55°	5949.7	6046.5	6663.1	7595.7	7794.5	8074.7	8446.8	8846.8	9855.8	9947.6	8793.3
57.5°	4899.9	4953.4	5394.2	6291.1	6609.6	7292.5	8678.6	10034.2	11366.8	11507.0	9692.8
60°	4018.3	4076.9	4405.6	5144.5	5567.5	6173.9	8495.2	11206.3	13170.8	13170.8	10847.0
62.5°	3024.5	3075.5	3381.3	3959.7	4670.6	5226.0	7909.1	11983.4	14531.5	14470.3	11682.8
65°	2076.7	2117.4	2339.1	2723.9	3363.4	4454.0	7109.0	11993.6	15433.5	15352.0	12039.5
66°	1742.9	1778.5	1967.1	2278.0	2815.6	4041.2	6826.2	11777.1	15622.0	15507.4	11889.2
67.5°	1375.9	1401.4	1526.3	1709.7	2063.9	3271.7	6380.3	11163.0	15604.2	15535.4	11507.0
70°	983.5	1001.4	1093.1	1131.3	1220.5	1893.2	5068.1	9776.8	14353.1	14373.5	10003.6
72.5°	761.9	789.9	846.0	853.6	833.2	1006.5	3075.5	8156.3	11741.4	11733.7	7425.0
75°	614.1	629.4	657.4	672.7	667.6	649.8	1302.0	6084.7	8082.4	8176.7	4158.4
77.5°	484.1	481.6	507.1	527.4	542.7	509.6	596.2	3567.3	4237.4	4117.6	1562.0
80°	356.7	356.7	392.4	400.0	423.0	428.1	397.5	1375.9	1454.9	1322.4	405.1
82.5°	234.4	234.4	272.6	277.7	300.7	333.8	287.9	412.8	402.6	382.2	183.5
85°	127.4	122.3	135.0	152.9	165.6	196.2	173.3	206.4	211.5	208.9	122.3
87.5°	25.5	22.9	35.7	40.8	45.9	61.2	56.1	84.1	117.2	114.7	53.5
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°	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2	3246.2
2.5°	3266.6	3264.0	3292.1	3325.2	3363.4	3386.3	3396.5	3414.4	3401.6	3406.7	3422.0
5°	3315.0	3322.6	3363.4	3406.7	3424.6	3411.8	3383.8	3373.6	3350.7	3345.6	3340.5
7.5°	3386.3	3399.1	3439.9	3450.0	3396.5	3307.4	3243.7	3208.0	3169.8	3159.6	3154.5
10°	3503.6	3511.2	3521.4	3416.9	3284.4	3164.7	3085.7	3052.6	3027.1	3006.7	3011.8
12.5°	3651.3	3646.2	3567.3	3350.7	3162.1	3039.8	2986.3	2965.9	2948.1	2935.3	2932.8
15°	3837.4	3801.7	3574.9	3258.9	3047.5	2945.5	2907.3	2899.7	2879.3	2879.3	2876.7
17.5°	4025.9	3934.2	3569.8	3162.1	2937.9	2881.8	2858.9	2853.8	2848.7	2846.2	2853.8
20°	4214.5	4051.4	3529.0	3042.4	2861.5	2828.3	2823.2	2825.8	2820.7	2828.3	2823.2
22.5°	4380.1	4127.8	3452.6	2915.0	2807.9	2805.4	2792.7	2797.8	2815.6	2818.1	2825.8
25°	4507.5	4155.9	3340.5	2797.8	2769.7	2764.6	2779.9	2800.3	2815.6	2818.1	2830.9
27.5°	4612.0	4140.6	3200.3	2706.0	2703.5	2731.5	2777.4	2785.0	2787.6	2787.6	2777.4
30°	4690.9	4107.4	3022.0	2604.1	2616.8	2685.6	2729.0	2729.0	2708.6	2703.5	2718.8
32.5°	4708.8	4064.1	2828.3	2499.6	2520.0	2601.6	2655.1	2637.2	2614.3	2614.3	2624.5
35°	4724.1	4005.5	2672.9	2356.9	2387.5	2484.3	2535.3	2499.6	2474.1	2466.5	2464.0
37.5°	4719.0	3982.6	2532.8	2176.0	2216.8	2311.1	2344.2	2311.1	2272.9	2255.0	2278.0
40°	4724.1	3967.3	2356.9	1977.3	2018.0	2074.1	2117.4	2091.9	2056.3	2010.4	2033.3
42.5°	4754.6	3987.7	2163.3	1783.6	1783.6	1814.2	1888.1	1870.3	1783.6	1765.8	1786.2
45°	4917.7	4097.3	1969.6	1590.0	1562.0	1582.3	1658.8	1582.3	1528.8	1528.8	1546.7
47.5°	5312.7	4301.1	1798.9	1419.3	1353.0	1393.8	1414.2	1342.8	1302.0	1291.9	1309.7
50°	6117.9	4708.8	1697.0	1279.1	1197.6	1228.2	1215.4	1212.9	1172.1	1177.2	1187.4
52.5°	7340.9	5503.8	1666.4	1210.3	1108.4	1116.0	1103.3	1108.4	1100.8	1126.2	1133.9
55°	8673.5	6342.1	1704.6	1220.5	1047.2	993.7	998.8	1024.3	1054.9	1095.7	1103.3
57.5°	9669.8	6762.5	1804.0	1289.3	970.8	889.3	902.0	950.4	1009.0	1042.1	1060.0
60°	10411.3	6711.5	1949.3	1307.1	879.1	795.0	817.9	889.3	940.2	968.3	986.1
62.5°	10653.4	6393.0	1984.9	1177.2	759.3	705.8	761.9	835.8	858.7	889.3	902.0
65°	10454.6	5942.0	1725.0	955.5	667.6	639.6	721.1	777.2	807.7	823.0	825.6
66°	10220.2	5671.9	1584.9	868.9	634.5	619.2	705.8	751.7	782.2	779.7	782.2
67.5°	9705.5	5106.3	1358.1	746.6	586.0	588.6	680.3	710.9	721.1	713.5	713.5
70°	7955.0	3595.3	973.4	565.7	514.7	550.4	611.5	619.2	642.1	631.9	631.9
72.5°	4905.0	1765.8	652.3	433.2	458.6	514.7	512.2	537.6	591.1	606.4	616.6
75°	2410.4	716.0	430.6	366.9	410.2	430.6	425.5	489.2	565.7	631.9	654.8
77.5°	914.7	356.7	300.7	321.1	331.2	323.6	338.9	443.4	565.7	685.4	708.4
80°	282.8	247.2	237.0	265.0	249.7	237.0	254.8	366.9	479.0	519.8	519.8
82.5°	170.7	193.7	183.5	180.9	168.2	170.7	183.5	262.4	369.5	387.3	387.3
85°	119.8	127.4	104.5	99.4	96.8	94.3	94.3	152.9	219.1	216.6	224.2
87.5°	45.9	51.0	38.2	38.2	35.7	25.5	20.4	25.5	25.5	17.8	12.7
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)