

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: P1210597

Luminaire Tested: **ARCH3-170-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210597
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: ARCH3-170-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23559 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.6
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



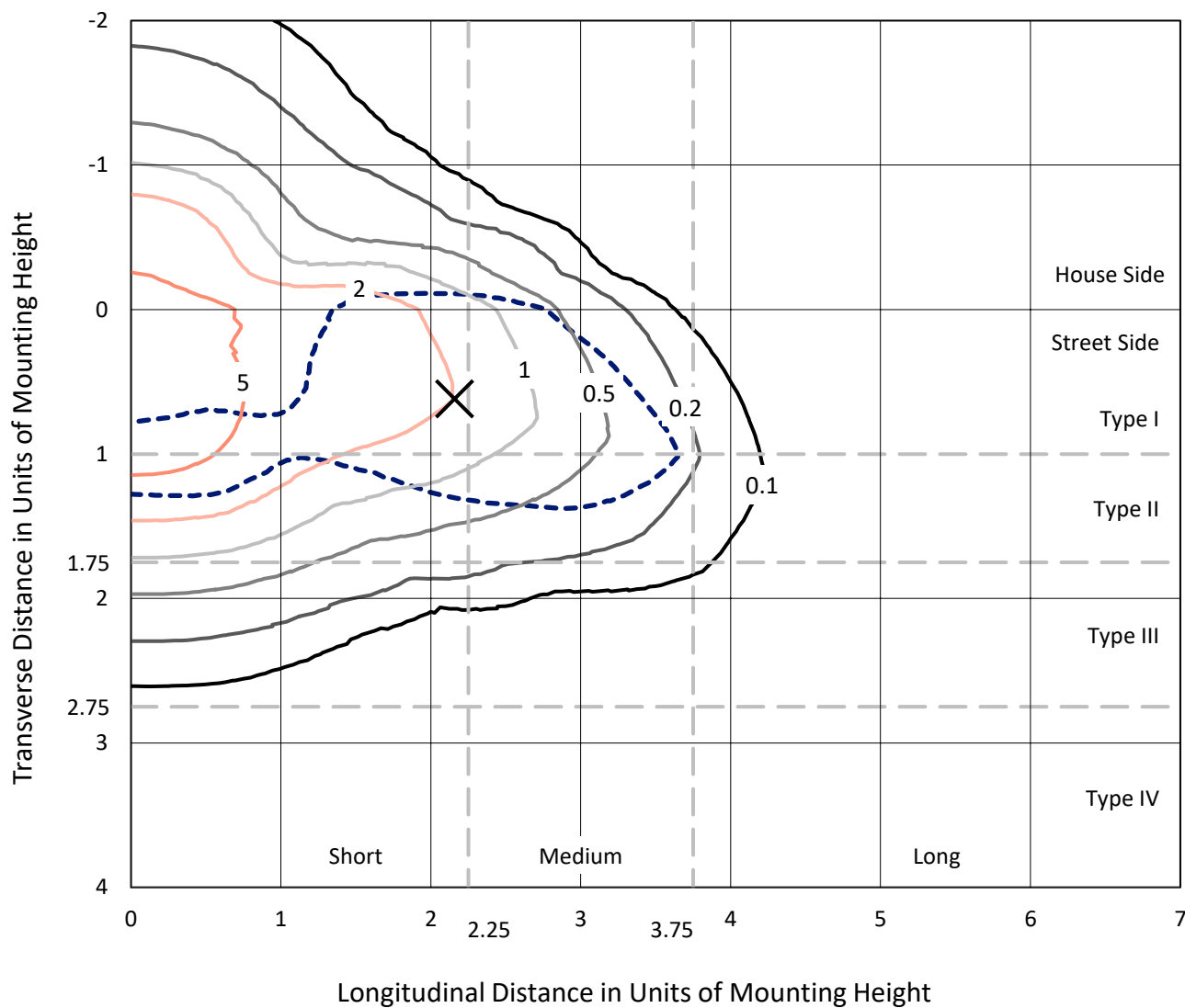
REPORT NUMBER: P1210597

CATALOG NUMBER: ARCH3-170-740-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

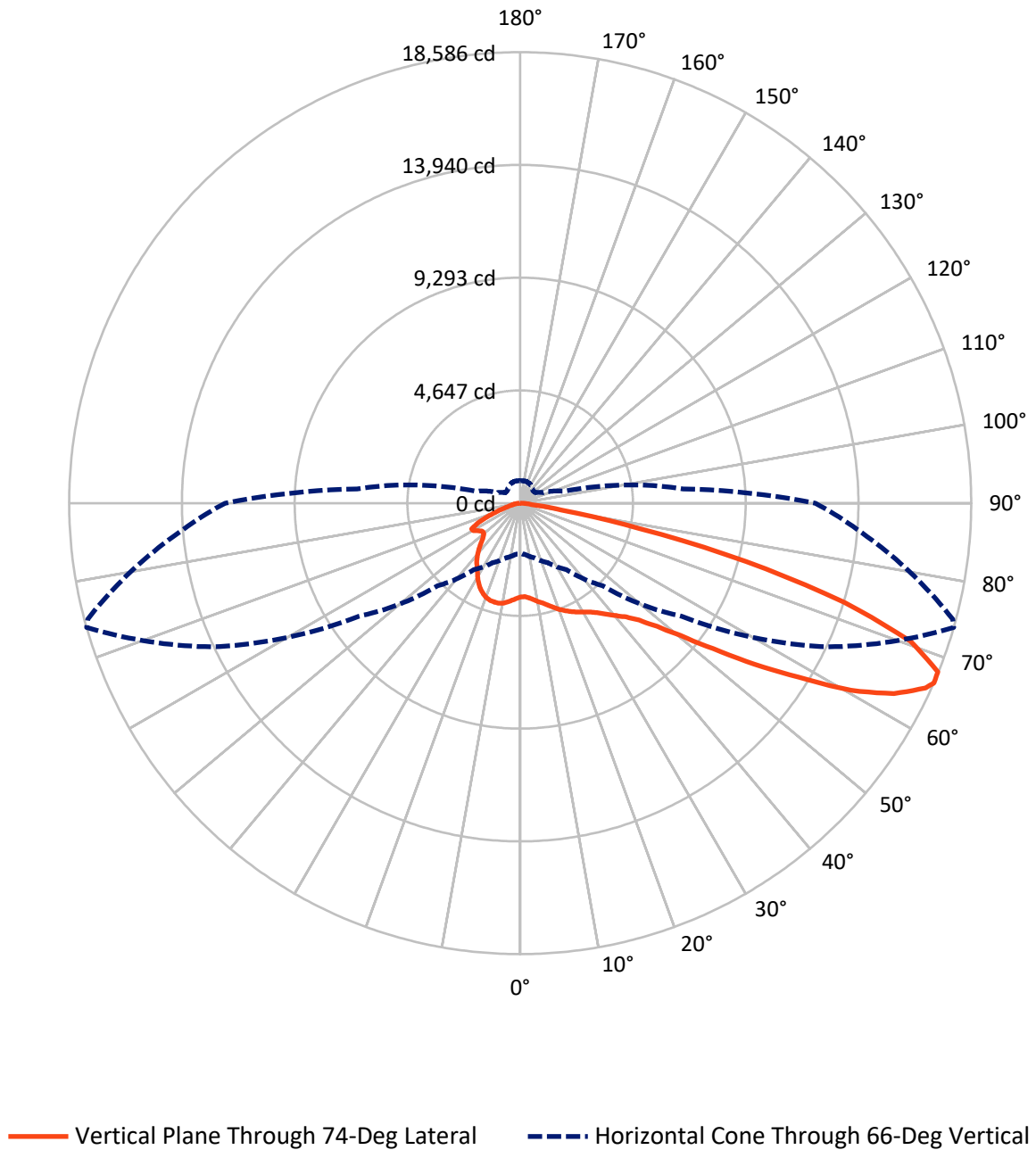


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

REPORT NUMBER: P1210597

CATALOG NUMBER: ARCH3-170-740-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210597

CATALOG NUMBER: ARCH3-170-740-U-T2RE

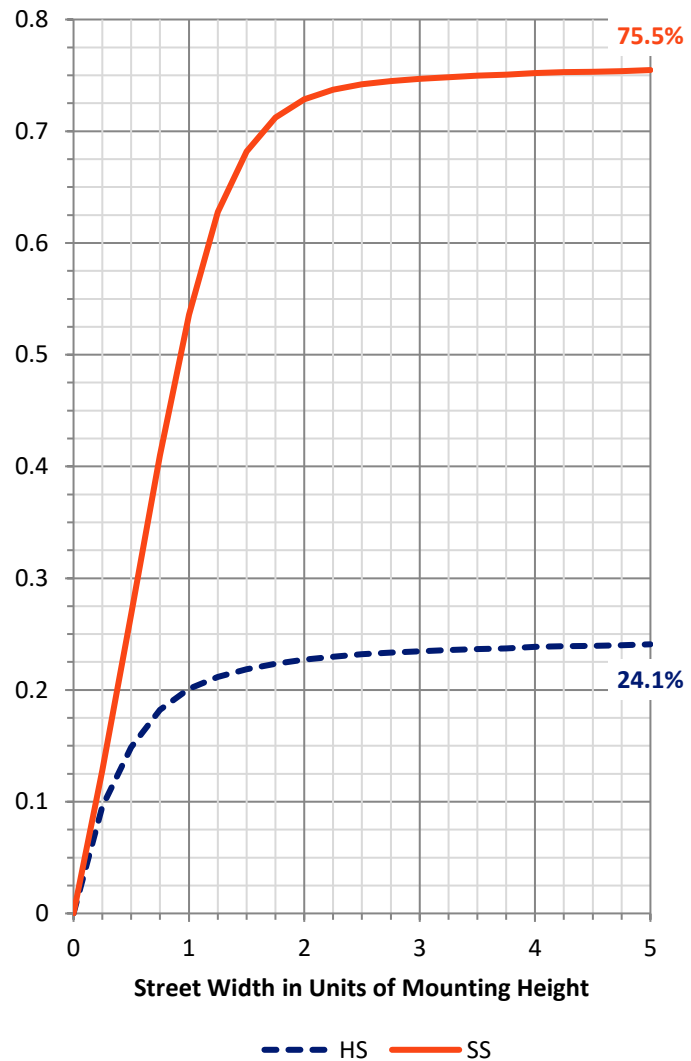
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5737.3	0.0	5737.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	17821.7	0.0	17821.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	23559.0	0.0	23559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.4	1.6
10°-20°	1132.9	4.8
20°-30°	2126.0	9.0
30°-40°	3270.2	13.9
40°-50°	4398.8	18.7
50°-60°	5202.1	22.1
60°-70°	4812.2	20.4
70°-80°	2024.5	8.6
80°-90°	224.0	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°	23559.0	100.0
0°-180°	23559.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210597

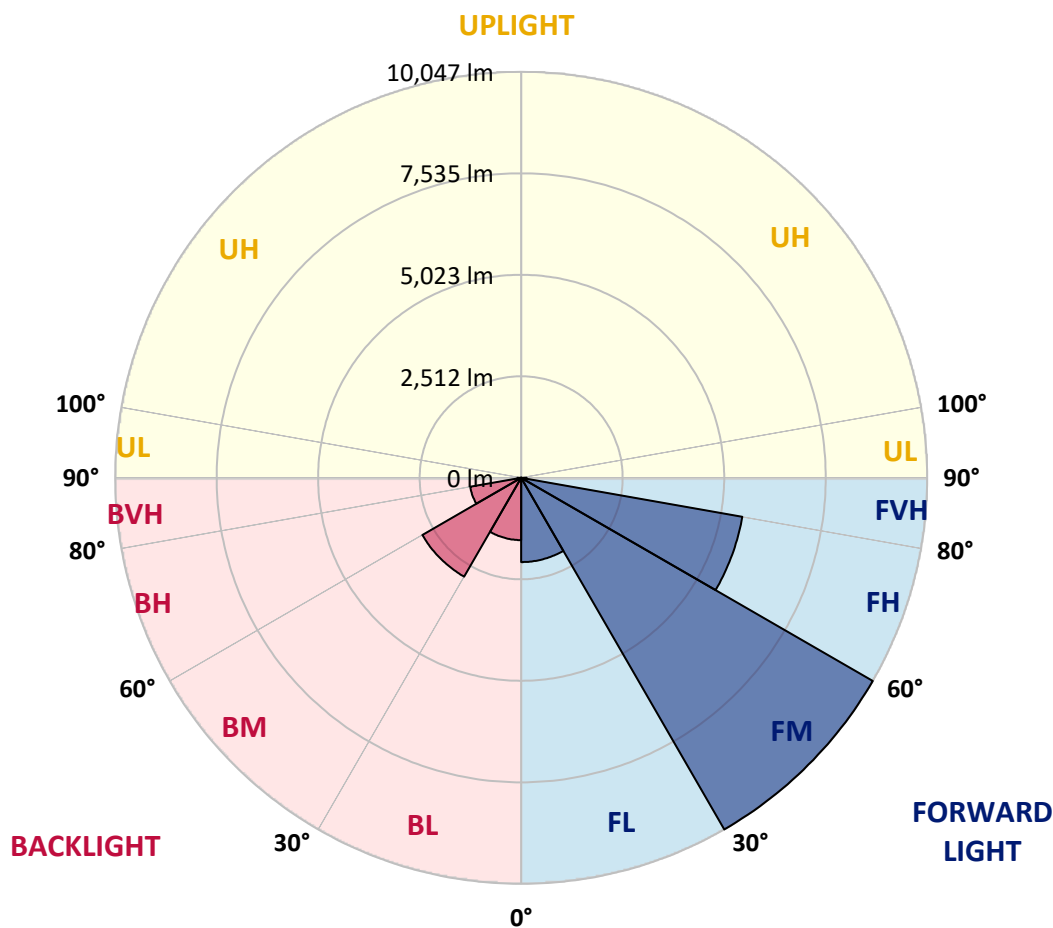
CATALOG NUMBER: ARCH3-170-740-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2085.3	8.9			
FM	(30°-60°)	10046.6	42.6			
FH	(60°-80°)	5555.9	23.6			G3/7500
FVH	(80°-90°)	134.0	0.6			G2/225
BL	(0°-30°)	1542.0	6.5	B3/2500		
BM	(30°-60°)	2824.5	12.0	B3/5000		
BH	(60°-80°)	1280.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	90.0	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



REPORT NUMBER: P1210597

CATALOG NUMBER: ARCH3-170-740-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1
2.5°	3850.0	3843.9	3856.0	3874.2	3883.3	3868.2	3862.1	3859.1	3859.1	3850.0	3865.1
5°	3668.1	3665.1	3692.3	3725.7	3789.3	3834.8	3895.4	3931.8	3919.7	3901.5	3913.6
7.5°	3431.6	3425.6	3458.9	3522.6	3610.5	3710.5	3859.1	3974.3	4019.7	4013.7	4010.6
10°	3522.6	3516.5	3513.5	3495.3	3525.6	3622.6	3777.2	3980.3	4134.9	4138.0	4141.0
12.5°	3837.9	3853.0	3837.9	3780.3	3713.6	3677.2	3768.1	3995.5	4231.9	4250.1	4325.9
15°	4268.3	4253.2	4222.8	4156.2	4053.1	3944.0	3877.3	4065.2	4371.4	4386.5	4553.3
17.5°	4647.3	4659.4	4641.2	4577.5	4456.3	4313.8	4110.7	4186.5	4519.9	4562.4	4795.8
20°	5059.5	5108.0	5083.8	5005.0	4904.9	4692.7	4438.1	4362.3	4683.6	4713.9	5047.4
22.5°	5535.5	5587.0	5541.5	5465.8	5383.9	5123.2	4795.8	4577.5	4820.1	4883.7	5289.9
25°	6105.4	6153.9	6111.5	5993.2	5890.2	5571.9	5180.8	4820.1	4953.4	5023.2	5487.0
27.5°	6557.1	6593.5	6632.9	6563.2	6405.5	6075.1	5581.0	5071.7	5086.8	5159.6	5668.9
30°	6960.3	7051.2	7084.6	7093.7	6960.3	6590.4	5990.2	5332.4	5202.0	5277.8	5850.8
32.5°	7512.0	7648.4	7593.9	7648.4	7569.6	7075.5	6414.6	5602.2	5350.6	5420.3	6023.5
35°	8318.4	8427.5	8285.0	8242.6	8115.3	7566.6	6823.9	5881.1	5547.6	5623.4	6187.2
37.5°	9185.4	9309.7	9103.5	8933.8	8691.2	8051.6	7175.5	6247.9	5820.4	5881.1	6338.8
40°	9943.2	10046.3	9867.5	9643.1	9236.9	8479.0	7478.7	6505.6	6093.3	6169.1	6514.6
42.5°	10643.5	10710.2	10510.1	10294.9	9752.3	8864.0	7806.1	6778.4	6411.6	6484.3	6657.1
45°	11352.9	11404.4	11125.5	10819.3	10182.7	9215.7	8166.8	7160.4	6878.4	6975.4	6887.5
47.5°	11480.2	11495.4	11446.9	11240.7	10522.3	9552.2	8612.4	7672.7	7590.8	7696.9	7284.6
50°	10598.0	10734.5	11034.6	11237.7	10658.7	9834.1	9058.1	8406.3	8573.0	8709.4	8109.2
52.5°	8885.3	9015.6	9709.8	10479.8	10331.3	9897.8	9537.0	9337.0	9958.4	10122.1	9230.9
55°	7078.5	7193.7	7927.3	9036.8	9273.3	9606.8	10049.4	10525.3	11725.8	11834.9	10461.6
57.5°	5829.5	5893.2	6417.6	7484.7	7863.7	8676.1	10325.2	11938.0	13523.4	13690.2	11531.7
60°	4780.6	4850.4	5241.4	6120.6	6623.8	7345.3	10106.9	13332.4	15669.7	15669.7	12905.0
62.5°	3598.4	3659.0	4022.8	4710.9	5556.7	6217.6	9409.7	14257.0	17288.5	17215.8	13899.3
65°	2470.7	2519.2	2782.9	3240.7	4001.6	5299.0	8457.8	14269.2	18361.7	18264.7	14323.7
66°	2073.5	2116.0	2340.3	2710.1	3349.8	4807.9	8121.3	14011.5	18586.0	18449.6	14144.9
67.5°	1637.0	1667.3	1815.9	2034.1	2455.5	3892.4	7590.8	13280.9	18564.8	18482.9	13690.2
70°	1170.2	1191.4	1300.5	1346.0	1452.1	2252.4	6029.6	11631.8	17076.3	17100.6	11901.6
72.5°	906.4	939.8	1006.5	1015.5	991.3	1197.4	3659.0	9703.8	13969.1	13960.0	8833.7
75°	730.6	748.8	782.1	800.3	794.2	773.0	1549.1	7239.2	9615.8	9728.0	4947.4
77.5°	576.0	572.9	603.3	627.5	645.7	606.3	709.4	4244.1	5041.3	4898.9	1858.3
80°	424.4	424.4	466.8	475.9	503.2	509.3	472.9	1637.0	1731.0	1573.3	482.0
82.5°	278.9	278.9	324.4	330.4	357.7	397.1	342.6	491.1	479.0	454.7	218.3
85°	151.6	145.5	160.7	181.9	197.0	233.4	206.1	245.5	251.6	248.6	145.5
87.5°	30.3	27.3	42.4	48.5	54.6	72.8	66.7	100.0	139.4	136.4	63.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210597

CATALOG NUMBER: ARCH3-170-740-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1	3862.1
2.5°	3886.4	3883.3	3916.7	3956.1	4001.6	4028.8	4041.0	4062.2	4047.0	4053.1	4071.3
5°	3944.0	3953.0	4001.6	4053.1	4074.3	4059.1	4025.8	4013.7	3986.4	3980.3	3974.3
7.5°	4028.8	4044.0	4092.5	4104.6	4041.0	3934.9	3859.1	3816.6	3771.2	3759.0	3753.0
10°	4168.3	4177.4	4189.5	4065.2	3907.6	3765.1	3671.1	3631.7	3601.4	3577.1	3583.2
12.5°	4344.1	4338.0	4244.1	3986.4	3762.1	3616.6	3552.9	3528.6	3507.4	3492.3	3489.2
15°	4565.4	4523.0	4253.2	3877.3	3625.6	3504.4	3458.9	3449.8	3425.6	3425.6	3422.5
17.5°	4789.7	4680.6	4247.1	3762.1	3495.3	3428.6	3401.3	3395.3	3389.2	3386.2	3395.3
20°	5014.1	4820.1	4198.6	3619.6	3404.4	3364.9	3358.9	3361.9	3355.8	3364.9	3358.9
22.5°	5211.1	4911.0	4107.7	3468.0	3340.7	3337.7	3322.5	3328.6	3349.8	3352.8	3361.9
25°	5362.7	4944.3	3974.3	3328.6	3295.2	3289.2	3307.3	3331.6	3349.8	3352.8	3368.0
27.5°	5487.0	4926.2	3807.5	3219.4	3216.4	3249.7	3304.3	3313.4	3316.4	3316.4	3304.3
30°	5581.0	4886.7	3595.3	3098.2	3113.3	3195.2	3246.7	3246.7	3222.5	3216.4	3234.6
32.5°	5602.2	4835.2	3364.9	2973.9	2998.1	3095.1	3158.8	3137.6	3110.3	3110.3	3122.4
35°	5620.4	4765.5	3180.0	2804.1	2840.5	2955.7	3016.3	2973.9	2943.6	2934.5	2931.4
37.5°	5614.3	4738.2	3013.3	2588.9	2637.4	2749.6	2789.0	2749.6	2704.1	2682.9	2710.1
40°	5620.4	4720.0	2804.1	2352.4	2400.9	2467.6	2519.2	2488.8	2446.4	2391.8	2419.1
42.5°	5656.7	4744.3	2573.7	2122.0	2122.0	2158.4	2246.3	2225.1	2122.0	2100.8	2125.1
45°	5850.8	4874.6	2343.3	1891.6	1858.3	1882.5	1973.5	1882.5	1818.9	1818.9	1840.1
47.5°	6320.6	5117.1	2140.2	1688.5	1609.7	1658.2	1682.5	1597.6	1549.1	1537.0	1558.2
50°	7278.6	5602.2	2019.0	1521.8	1424.8	1461.2	1446.0	1443.0	1394.5	1400.5	1412.7
52.5°	8733.7	6548.0	1982.6	1440.0	1318.7	1327.8	1312.6	1318.7	1309.6	1339.9	1349.0
55°	10319.2	7545.3	2028.1	1452.1	1245.9	1182.3	1188.3	1218.7	1255.0	1303.5	1312.6
57.5°	11504.5	8045.5	2146.3	1533.9	1155.0	1058.0	1073.1	1130.7	1200.5	1239.9	1261.1
60°	12386.6	7984.9	2319.1	1555.1	1045.9	945.8	973.1	1058.0	1118.6	1152.0	1173.2
62.5°	12674.6	7606.0	2361.5	1400.5	903.4	839.7	906.4	994.3	1021.6	1058.0	1073.1
65°	12438.2	7069.4	2052.3	1136.8	794.2	760.9	857.9	924.6	961.0	979.2	982.2
66°	12159.3	6748.1	1885.6	1033.7	754.8	736.6	839.7	894.3	930.7	927.6	930.7
67.5°	11546.9	6075.1	1615.8	888.2	697.2	700.3	809.4	845.8	857.9	848.8	848.8
70°	9464.3	4277.4	1158.0	673.0	612.4	654.8	727.6	736.6	763.9	751.8	751.8
72.5°	5835.6	2100.8	776.1	515.4	545.7	612.4	609.3	639.6	703.3	721.5	733.6
75°	2867.8	851.8	512.3	436.5	488.1	512.3	506.3	582.0	673.0	751.8	779.1
77.5°	1088.3	424.4	357.7	382.0	394.1	385.0	403.2	527.5	673.0	815.5	842.8
80°	336.5	294.1	281.9	315.3	297.1	281.9	303.1	436.5	569.9	618.4	618.4
82.5°	203.1	230.4	218.3	215.2	200.1	203.1	218.3	312.2	439.6	460.8	460.8
85°	142.5	151.6	124.3	118.2	115.2	112.2	112.2	181.9	260.7	257.7	266.8
87.5°	54.6	60.6	45.5	45.5	42.4	30.3	24.3	30.3	30.3	21.2	15.2
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)