

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: P285787

Luminaire Tested: **USSL-XL-C04-D-U-T3-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C04-D-U-T3-AP-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37780.1 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

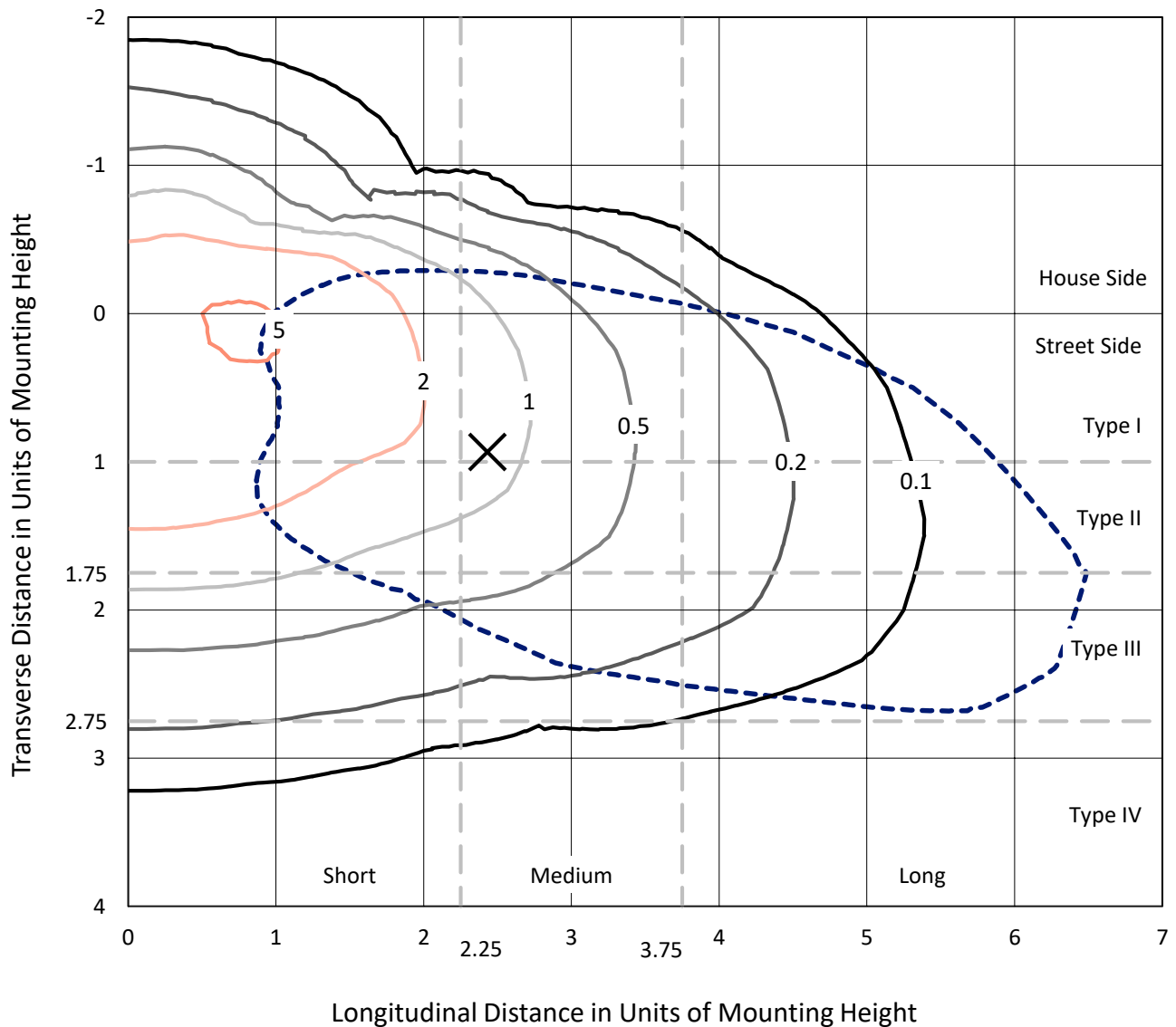
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

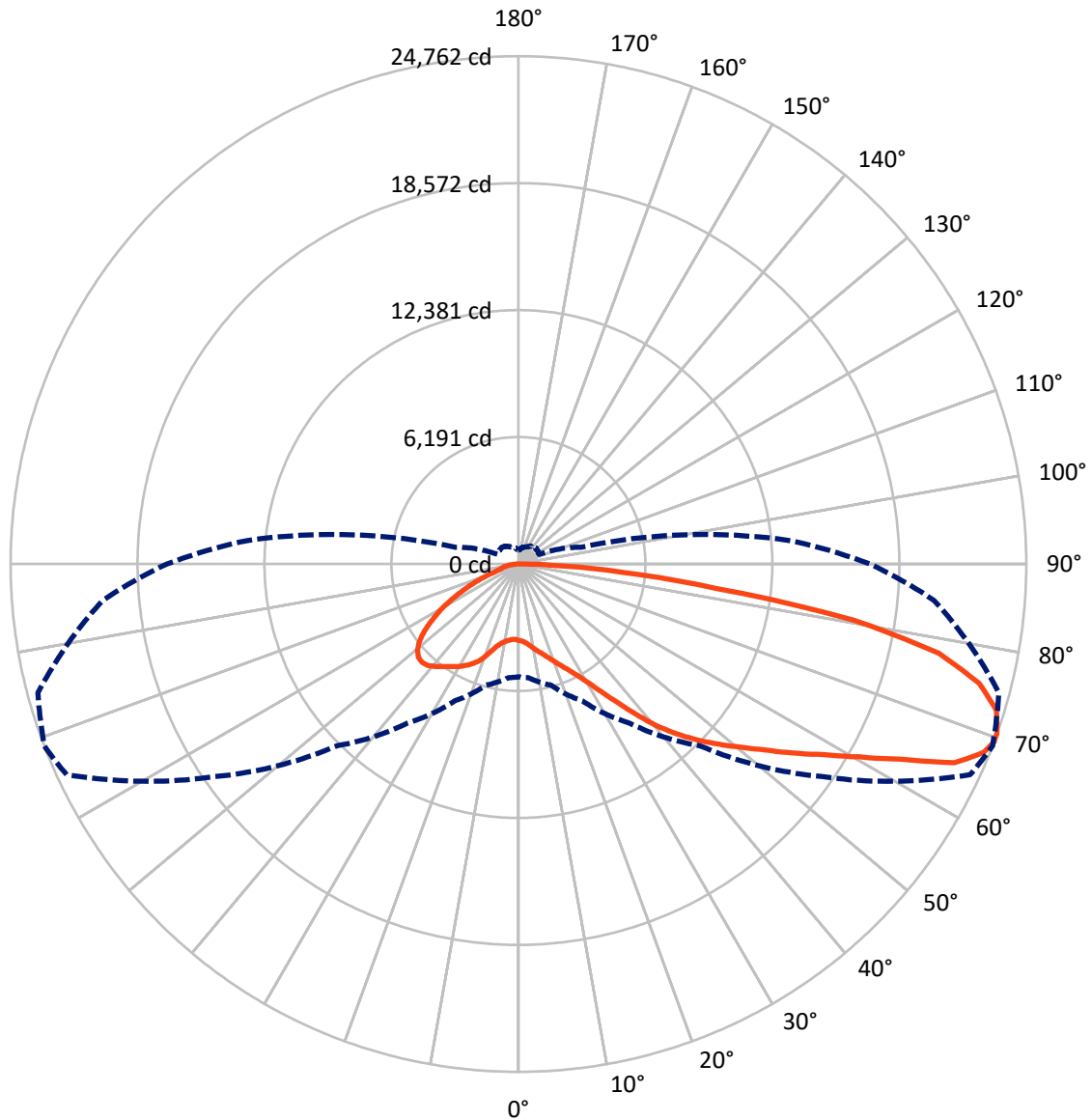
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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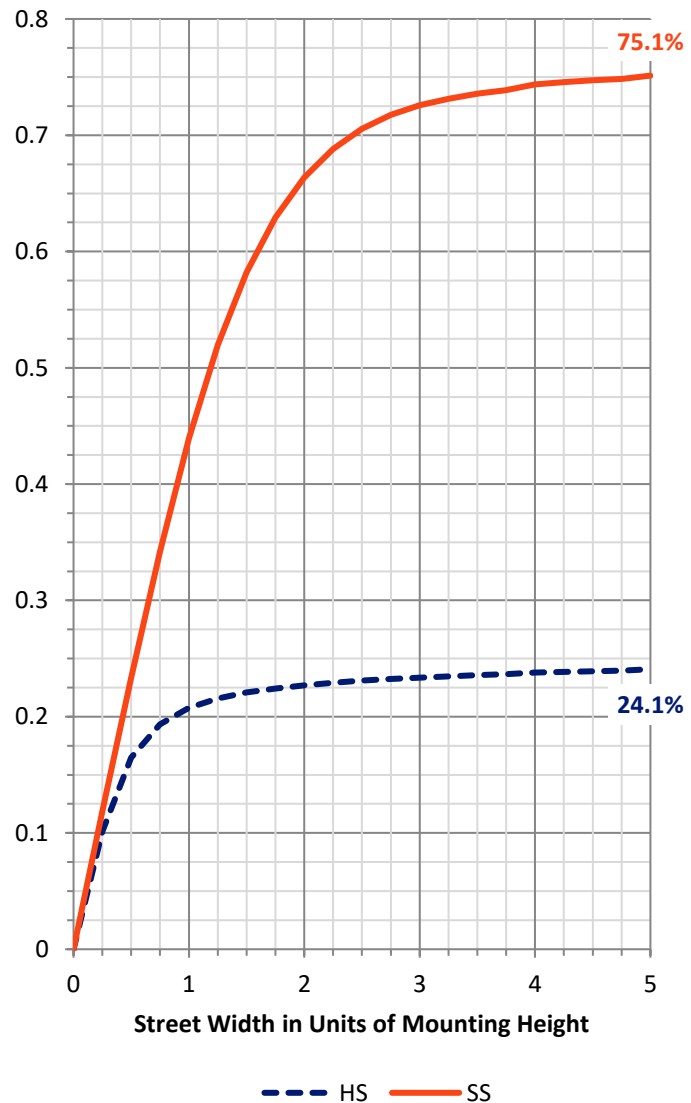
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9288.4	0.0	9288.4
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	28491.8	0.0	28491.8
	% Fixture	75.4	0.0	75.4
Total	Lumens	37780.1	0.0	37780.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	1.0
10°-20°	1196.6	3.2
20°-30°	2241.1	5.9
30°-40°	3807.9	10.1
40°-50°	5843.4	15.5
50°-60°	7634.7	20.2
60°-70°	8693.5	23.0
70°-80°	6563.4	17.4
80°-90°	1432.4	3.8
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°	37780.1	100.0
0°-180°	37780.1	100.0



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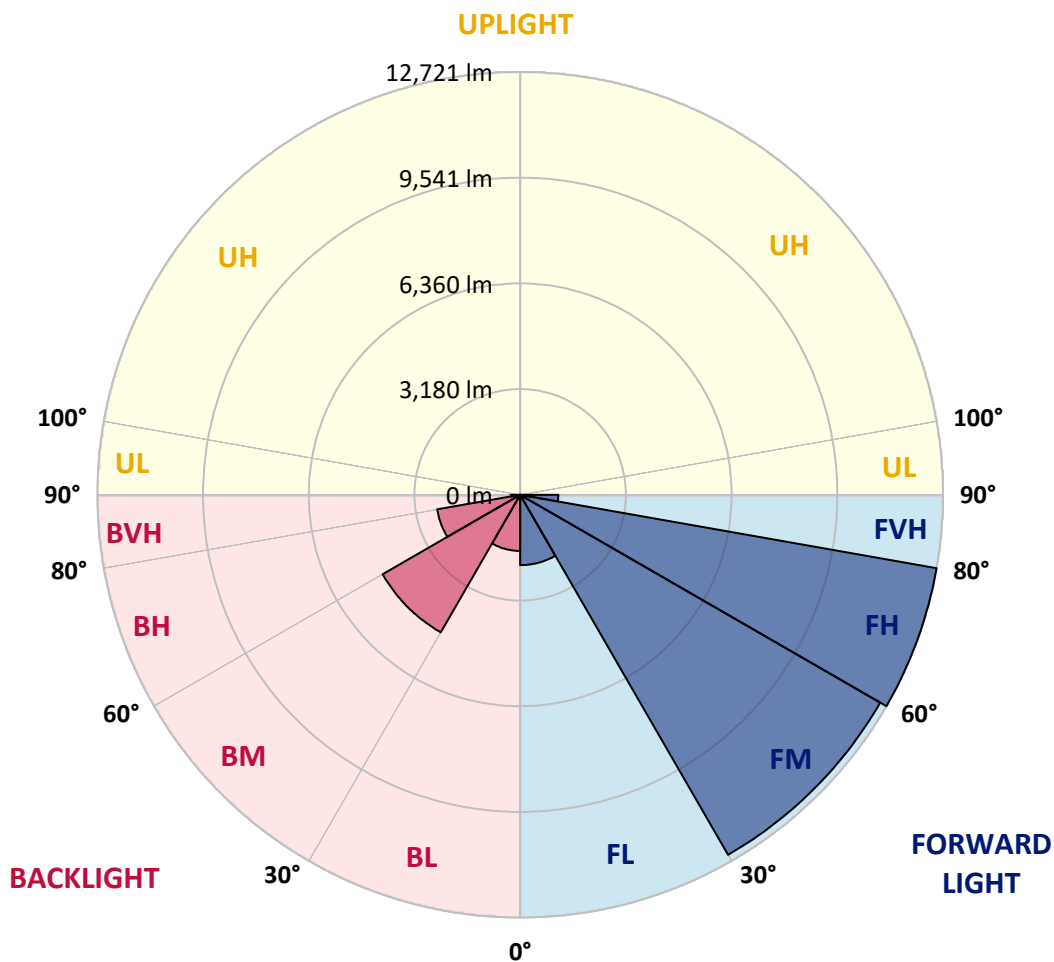
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2116.0	5.6			
FM	(30°-60°)	12506.7	33.1			
FH	(60°-80°)	12720.7	33.7			G5
FVH	(80°-90°)	1148.4	3.0			G5
BL	(0°-30°)	1688.9	4.5	B3/2500		
BM	(30°-60°)	4779.3	12.7	B3/5000		
BH	(60°-80°)	2536.2	6.7	B4/5000		G4/5000
BVH	(80°-90°)	284.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4
2.5°	3869.1	3880.7	3879.2	3873.4	3870.5	3854.6	3834.4	3808.3	3765.0	3744.7	3718.7
5°	4034.0	4042.7	4044.2	4034.0	4022.4	3997.8	3955.9	3915.4	3867.7	3838.7	3788.1
7.5°	4174.3	4181.5	4194.6	4185.9	4180.0	4159.8	4119.3	4071.6	4009.4	3968.9	3898.0
10°	4287.1	4292.9	4303.0	4317.5	4345.0	4327.6	4279.9	4246.6	4190.2	4128.0	4039.8
12.5°	4368.1	4363.8	4392.6	4418.7	4475.1	4494.0	4460.7	4436.1	4381.1	4317.5	4213.3
15°	4405.7	4404.3	4454.9	4519.9	4603.9	4634.2	4634.2	4606.7	4576.4	4527.3	4417.2
17.5°	4486.7	4492.5	4525.8	4609.6	4699.4	4770.2	4838.2	4841.1	4818.0	4784.7	4670.4
20°	4611.1	4621.3	4638.5	4705.1	4805.0	4929.3	5056.6	5102.9	5091.3	5078.3	4988.6
22.5°	4767.3	4771.7	4767.3	4825.2	4958.2	5126.0	5309.7	5386.4	5393.6	5395.0	5350.2
25°	5017.6	4998.7	4951.0	5003.0	5157.8	5351.6	5575.8	5703.1	5736.4	5766.8	5873.8
27.5°	5474.6	5431.2	5341.6	5324.2	5412.4	5625.0	5902.7	6115.3	6163.1	6246.9	6532.0
30°	6212.3	6154.4	6070.5	5814.5	5779.7	5962.0	6315.0	6618.7	6714.1	6968.7	7297.1
32.5°	6960.0	6922.4	6828.4	6582.5	6322.2	6390.1	6737.3	7211.8	7417.1	7932.0	8235.7
35°	7602.2	7583.5	7530.0	7409.9	7107.6	6916.7	7219.0	7878.6	8261.8	9066.0	9339.4
37.5°	8221.3	8212.6	8215.5	8052.1	7924.8	7649.9	7771.5	8656.6	9285.9	10253.5	10437.2
40°	8762.3	8766.6	8811.5	8736.2	8714.5	8543.9	8422.4	9486.8	10349.0	11427.9	11471.4
42.5°	9206.3	9210.6	9418.9	9306.1	9440.6	9403.0	9228.0	10262.2	11326.7	12378.3	12372.4
45°	9498.5	9505.7	9711.1	9802.2	10087.2	10211.5	10081.3	11057.7	12239.4	13257.7	13143.4
47.5°	9715.5	9709.6	9826.8	10194.2	10680.2	10926.1	10973.8	11961.7	13124.5	14072.0	13873.8
50°	9832.6	9845.6	10069.8	10560.1	11277.5	11620.3	11882.1	13029.1	14032.9	14857.4	14578.2
52.5°	9906.4	9971.4	10299.8	10882.6	11817.0	12353.7	12682.0	14212.3	15056.9	15673.2	15324.6
55°	9958.4	10077.0	10401.0	11051.9	12152.6	12948.2	13432.6	15433.0	16266.2	16597.4	16143.2
57.5°	9586.7	9700.9	10227.5	11078.0	12417.3	13437.0	14232.5	16721.7	17527.4	17737.1	16953.2
60°	8951.7	9019.7	9698.1	10873.9	12359.4	13881.1	15282.6	18250.6	19093.9	19109.8	17806.5
62.5°	8298.0	8325.4	9011.1	10341.8	12099.1	14027.1	16332.6	20288.6	20951.0	20748.5	18713.5
65°	7430.1	7460.5	8167.8	9466.6	11469.9	13865.1	17191.8	22436.5	23363.6	22822.6	19613.1
67.5°	6296.1	6362.7	7019.4	8222.7	10350.3	13238.9	17808.0	23916.1	24484.5	24018.8	20235.1
69°	5502.0	5564.3	6115.3	7362.2	9478.3	12533.0	18066.9	24306.7	24762.2	24254.5	20339.2
70°	4930.8	4978.5	5494.8	6718.5	8795.5	11929.8	18123.3	24412.3	24747.8	24263.2	20282.8
72.5°	3514.7	3555.2	3835.9	4700.8	6666.5	9993.2	17847.0	24125.9	24371.8	23673.1	19543.7
75°	2599.2	2631.0	2798.8	3105.4	3880.7	7071.4	16125.8	22935.5	23197.3	22383.0	18003.2
77.5°	1886.1	1912.2	2074.1	2373.5	2730.8	3329.6	11179.2	20699.3	20956.8	20303.0	15498.1
80°	1287.2	1314.8	1460.9	1714.0	1996.0	2215.8	5489.1	15149.6	16568.5	16250.3	11044.7
82.5°	241.6	296.6	627.8	889.6	1122.4	1200.5	2075.6	8329.8	9679.2	9873.1	5759.5
85°	160.6	173.6	383.3	373.2	366.0	536.6	812.8	3993.5	5052.2	5234.5	2486.3
87.5°	79.6	83.8	114.3	157.6	201.1	241.6	267.6	1053.0	1521.6	1631.5	464.3
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°	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4	3727.4
2.5°	3708.6	3701.3	3679.7	3671.0	3665.1	3662.3	3627.5	3621.8	3604.4	3592.8	3582.7
5°	3763.5	3751.9	3701.3	3682.5	3653.6	3629.0	3571.1	3546.5	3529.1	3506.0	3496.0
7.5°	3860.5	3840.1	3763.5	3728.8	3678.2	3636.2	3556.7	3519.1	3485.8	3454.0	3448.2
10°	3992.0	3954.5	3848.8	3795.3	3721.5	3672.3	3579.8	3507.5	3458.3	3422.2	3420.7
12.5°	4164.1	4107.7	3980.5	3909.7	3818.5	3743.2	3637.7	3529.1	3448.2	3390.3	3387.4
15°	4369.5	4310.3	4181.5	4090.4	3983.4	3882.1	3712.9	3552.4	3417.9	3325.2	3313.7
17.5°	4621.3	4564.8	4447.7	4373.9	4223.5	4023.9	3783.7	3543.7	3351.3	3224.0	3205.2
20°	4939.5	4955.4	4845.4	4684.9	4434.6	4141.0	3818.5	3498.8	3219.7	3041.8	3015.7
22.5°	5383.4	5437.0	5253.3	4958.2	4595.2	4203.2	3804.0	3380.2	3038.8	2823.4	2801.6
25°	5927.3	5911.4	5580.2	5159.3	4677.7	4201.8	3723.0	3211.0	2808.9	2565.9	2550.0
27.5°	6495.7	6400.3	5888.3	5299.6	4692.1	4122.3	3563.9	2956.4	2544.2	2341.7	2293.9
30°	7220.4	6954.2	6203.6	5418.2	4644.4	3970.4	3276.0	2712.0	2392.3	2172.5	2140.7
32.5°	8057.9	7615.3	6557.9	5454.4	4538.8	3737.5	2963.7	2599.2	2292.6	2042.3	2006.2
35°	9031.3	8461.4	6968.7	5467.4	4337.7	3391.8	2794.4	2534.1	2226.0	1942.5	1894.8
37.5°	10049.5	9358.2	7474.9	5452.9	4103.4	3012.9	2675.8	2440.1	2150.7	1919.4	1891.9
40°	10969.4	10221.7	8046.3	5412.4	3782.4	2767.0	2547.2	2309.8	2085.7	1910.7	1889.0
42.5°	11812.7	10973.8	8593.0	5344.4	3381.7	2592.0	2405.3	2213.0	2003.2	1789.2	1745.8
45°	12543.2	11668.0	8998.0	5182.4	2933.3	2412.5	2234.7	2078.5	1880.3	1667.6	1624.3
47.5°	13169.5	12240.8	9316.2	4904.7	2571.7	2244.8	2040.8	1917.9	1744.4	1541.8	1498.5
50°	13808.7	12706.6	9502.9	4446.2	2269.4	2052.4	1848.5	1731.3	1582.3	1434.8	1408.8
52.5°	14494.3	13463.1	9774.7	3691.2	1990.3	1849.9	1644.5	1517.2	1407.3	1345.1	1320.5
55°	15187.1	14134.2	9874.6	2791.6	1745.8	1690.9	1452.2	1287.2	1209.1	1170.1	1164.3
57.5°	15875.6	14707.0	9533.2	1987.3	1583.8	1507.2	1246.8	1090.5	998.0	1025.5	1067.4
60°	16580.0	15125.0	8661.0	1554.9	1456.5	1287.2	1073.3	957.5	917.0	886.6	888.1
62.5°	17230.9	15320.2	7177.0	1320.5	1333.6	1151.4	1012.5	899.6	859.2	807.1	791.2
65°	17663.3	14976.0	5601.9	1222.2	1222.2	1116.6	1009.6	901.1	846.1	755.0	739.1
67.5°	17539.0	14079.2	4145.4	1134.0	1151.4	1131.1	1034.1	898.2	830.2	743.4	737.7
69°	17138.4	13220.0	3183.5	1107.9	1139.7	1144.1	1063.1	912.7	847.6	716.0	684.2
70°	16736.2	12557.6	2635.3	1086.3	1136.8	1152.7	1086.3	930.1	834.6	672.6	652.4
72.5°	15369.4	10613.6	1327.8	1002.3	1132.5	1162.9	1136.8	995.1	827.4	648.0	630.6
75°	13512.2	8163.5	851.9	931.4	1096.4	1174.5	1177.3	1055.9	830.2	633.5	611.8
77.5°	10826.2	4732.6	707.3	851.9	1028.4	1151.4	1190.4	1102.2	865.0	658.1	633.5
80°	5756.6	1871.7	568.4	727.5	941.6	1081.9	1154.2	1086.3	856.3	549.7	533.8
82.5°	2548.5	581.5	416.5	571.3	740.6	946.0	980.6	956.0	749.2	332.7	380.4
85°	716.0	240.1	277.7	410.8	512.0	669.6	768.0	771.0	581.5	144.7	33.3
87.5°	73.8	55.0	81.0	157.6	295.1	464.3	561.2	538.1	389.1	122.9	2.9
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)