

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: P285786

Luminaire Tested: **USSL-XL-C049-D-U-T3-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285786
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-C049-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: 32323.8 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 217
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

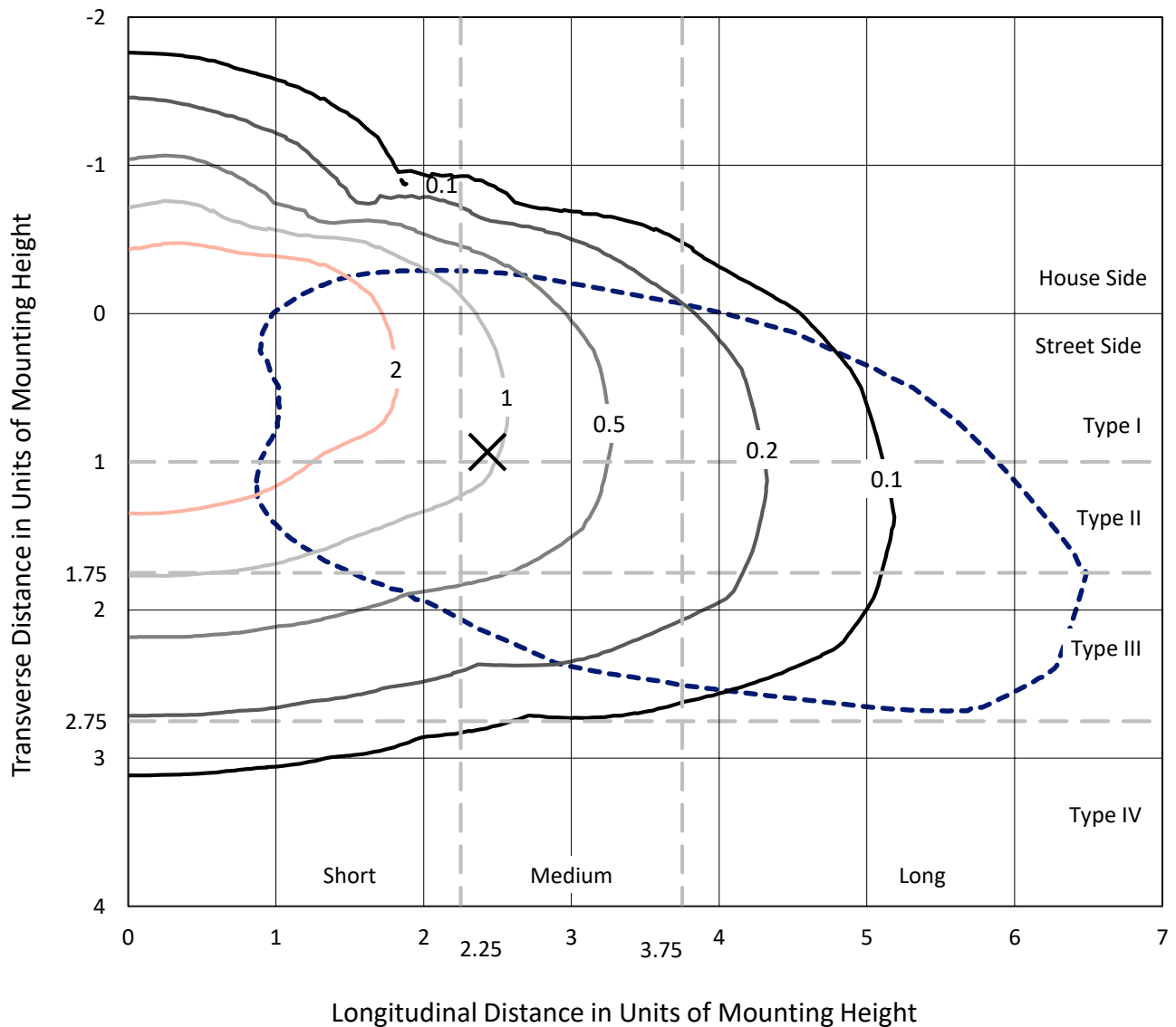


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

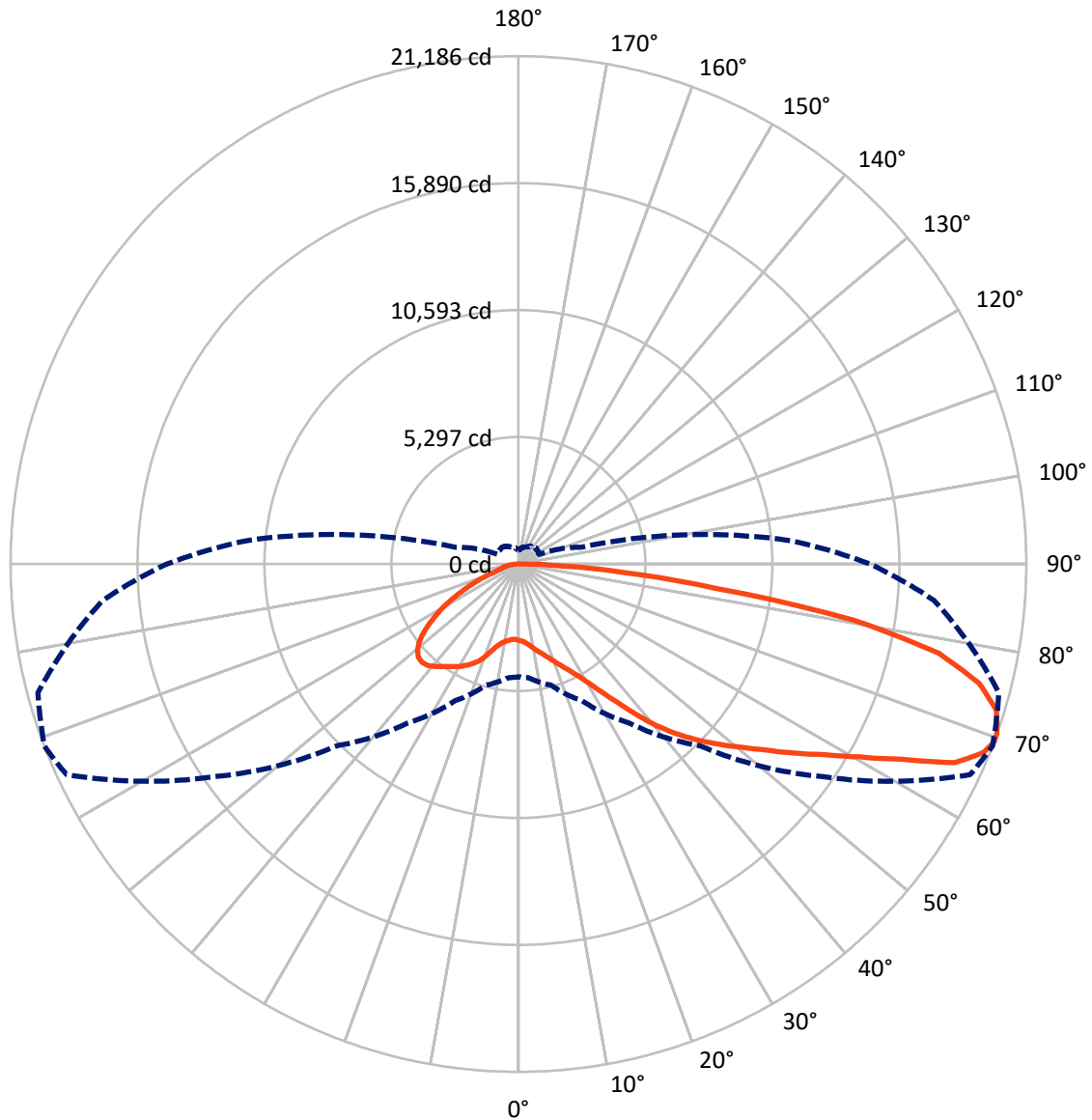


Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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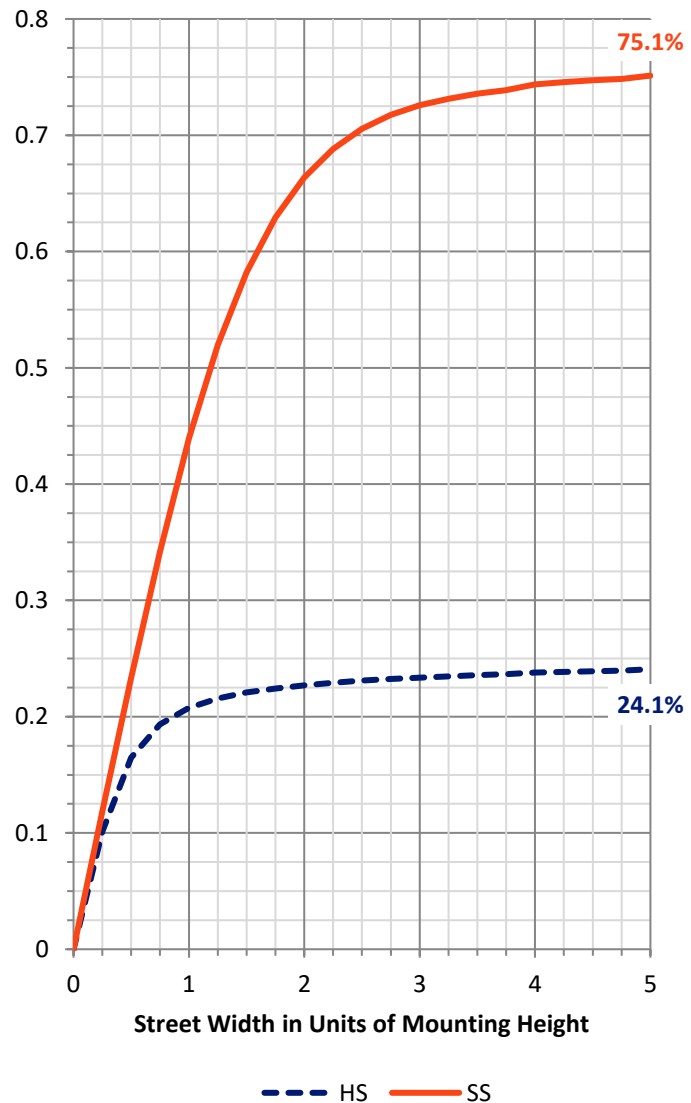
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7946.9	0.0	7946.9
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	24376.9	0.0	24376.9
	% Fixture	75.4	0.0	75.4
Total	Lumens	32323.8	0.0	32323.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.1	1.0
10°-20°	1023.8	3.2
20°-30°	1917.4	5.9
30°-40°	3257.9	10.1
40°-50°	4999.5	15.5
50°-60°	6532.0	20.2
60°-70°	7437.9	23.0
70°-80°	5615.5	17.4
80°-90°	1225.5	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°	32323.8	100.0
0°-180°	32323.8	100.0



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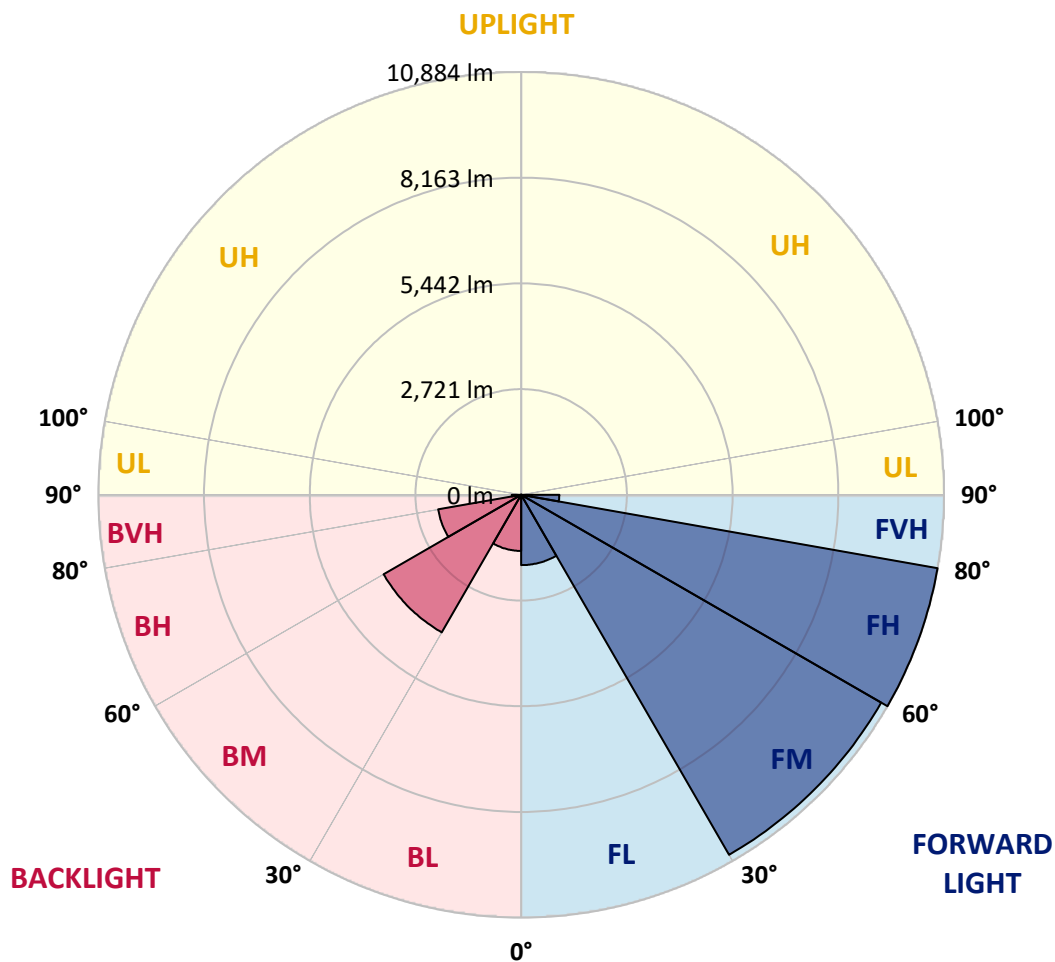
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1810.4	5.6			
FM	(30°-60°)	10700.4	33.1			
FH	(60°-80°)	10883.5	33.7			G4/12000
FVH	(80°-90°)	982.5	3.0			G5
BL	(0°-30°)	1445.0	4.5	B3/2500		
BM	(30°-60°)	4089.0	12.7	B3/5000		
BH	(60°-80°)	2169.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	243.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0
2.5°	3310.3	3320.2	3319.0	3314.0	3311.6	3298.0	3280.6	3258.3	3221.2	3203.9	3181.6
5°	3451.4	3458.8	3460.0	3451.4	3441.5	3420.4	3384.6	3349.9	3309.1	3284.3	3241.0
7.5°	3571.4	3577.6	3588.7	3581.3	3576.4	3559.0	3524.4	3483.6	3430.4	3395.7	3335.1
10°	3668.0	3672.9	3681.6	3694.0	3717.5	3702.5	3661.7	3633.3	3585.0	3531.8	3456.3
12.5°	3737.2	3733.5	3758.3	3780.6	3828.8	3844.9	3816.5	3795.4	3748.3	3694.0	3604.8
15°	3769.4	3768.2	3811.5	3867.2	3939.0	3965.0	3965.0	3941.5	3915.5	3873.4	3779.3
17.5°	3838.7	3843.6	3872.1	3943.9	4020.6	4081.3	4139.4	4141.9	4122.2	4093.7	3995.9
20°	3945.2	3953.9	3968.7	4025.6	4110.9	4217.4	4326.3	4365.9	4356.0	4344.8	4268.1
22.5°	4078.8	4082.5	4078.8	4128.3	4242.1	4385.7	4542.8	4608.4	4614.6	4615.9	4577.5
25°	4292.9	4276.8	4236.0	4280.5	4412.9	4578.8	4770.6	4879.5	4908.0	4933.9	5025.5
27.5°	4683.9	4646.8	4570.1	4555.2	4630.7	4812.7	5050.2	5232.2	5273.0	5344.8	5588.5
30°	5315.1	5265.6	5193.8	4974.7	4945.1	5101.0	5402.9	5662.8	5744.4	5962.3	6243.2
32.5°	5954.8	5922.7	5842.3	5631.9	5409.1	5467.3	5764.3	6170.2	6345.9	6786.4	7046.3
35°	6504.3	6488.2	6442.4	6339.7	6081.1	5917.7	6176.4	6740.6	7068.6	7756.7	7990.6
37.5°	7033.9	7026.5	7029.0	6889.1	6780.3	6545.1	6649.1	7406.5	7944.8	8772.7	8929.8
40°	7496.8	7500.5	7538.9	7474.5	7456.0	7309.9	7205.9	8116.7	8854.3	9777.5	9814.6
42.5°	7876.6	7880.4	8058.6	7962.1	8077.2	8045.0	7895.3	8780.1	9690.9	10590.5	10585.5
45°	8126.7	8132.8	8308.6	8386.6	8630.3	8736.8	8625.4	9460.7	10471.7	11342.9	11245.1
47.5°	8312.3	8307.3	8407.6	8721.9	9137.7	9348.1	9388.9	10234.1	11229.1	12039.6	11870.1
50°	8412.5	8423.7	8615.5	9035.0	9648.8	9942.1	10166.0	11147.4	12006.2	12711.6	12472.8
52.5°	8475.6	8531.3	8812.2	9310.9	10110.4	10569.5	10850.4	12159.7	12882.3	13409.5	13111.3
55°	8520.2	8621.7	8898.8	9455.7	10397.5	11078.1	11492.7	13204.1	13916.9	14200.3	13811.8
57.5°	8202.1	8299.9	8750.3	9478.0	10623.9	11496.4	12177.0	14306.7	14996.0	15175.4	14504.7
60°	7658.8	7717.0	8297.4	9303.5	10574.4	11876.3	13075.5	15614.8	16336.2	16349.8	15234.9
62.5°	7099.5	7123.1	7709.6	8848.2	10351.7	12001.2	13973.8	17358.4	17925.1	17751.9	16010.7
65°	6357.1	6383.0	6988.1	8099.4	9813.4	11862.7	14709.0	19196.1	19989.3	19526.5	16780.5
67.5°	5386.8	5443.8	6005.6	7035.2	8855.6	11326.8	15236.1	20462.1	20948.4	20549.9	17312.6
69°	4707.4	4760.6	5232.2	6298.9	8109.3	10722.9	15457.6	20796.2	21186.0	20751.7	17401.8
70°	4218.6	4259.5	4701.3	5748.2	7525.2	10206.9	15505.9	20886.5	21173.6	20759.1	17353.4
72.5°	3007.1	3041.8	3281.9	4021.9	5703.6	8549.9	15269.6	20641.4	20851.8	20254.2	16721.1
75°	2223.8	2251.0	2394.5	2657.0	3320.2	6050.1	13796.9	19623.0	19847.1	19150.3	15403.2
77.5°	1613.7	1636.0	1774.6	2030.8	2336.4	2848.7	9564.6	17709.9	17930.1	17370.8	13259.8
80°	1101.3	1124.9	1249.8	1466.5	1707.7	1895.8	4696.3	12961.6	14175.5	13903.3	9449.5
82.5°	206.7	253.7	537.1	761.1	960.3	1027.1	1775.9	7126.8	8281.3	8447.2	4927.7
85°	137.4	148.5	327.9	319.2	313.1	459.1	695.5	3416.7	4322.6	4478.5	2127.2
87.5°	68.0	71.8	97.7	134.9	172.0	206.7	228.9	900.9	1301.9	1395.9	397.3
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°	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0
2.5°	3172.9	3166.8	3148.2	3140.8	3135.8	3133.4	3103.6	3098.7	3083.9	3073.9	3065.3
5°	3220.0	3210.1	3166.8	3150.7	3126.0	3104.9	3055.4	3034.4	3019.5	2999.7	2991.0
7.5°	3302.9	3285.6	3220.0	3190.3	3146.9	3111.1	3043.0	3010.9	2982.3	2955.1	2950.2
10°	3415.5	3383.3	3293.0	3247.2	3184.0	3142.0	3062.8	3000.9	2958.8	2928.0	2926.7
12.5°	3562.7	3514.5	3405.6	3344.9	3267.0	3202.7	3112.3	3019.5	2950.2	2900.7	2898.2
15°	3738.5	3687.7	3577.6	3499.7	3408.1	3321.4	3176.6	3039.3	2924.3	2845.0	2835.1
17.5°	3953.9	3905.5	3805.4	3742.2	3613.5	3442.8	3237.3	3031.8	2867.2	2758.4	2742.3
20°	4226.0	4239.7	4145.6	4008.2	3794.1	3542.9	3267.0	2993.5	2754.7	2602.5	2580.2
22.5°	4606.0	4651.8	4494.6	4242.1	3931.5	3596.1	3254.6	2892.0	2599.9	2415.6	2397.1
25°	5071.3	5057.6	4774.3	4414.2	4002.1	3595.0	3185.3	2747.3	2403.2	2195.4	2181.7
27.5°	5557.6	5476.0	5037.8	4534.1	4014.5	3526.9	3049.2	2529.5	2176.7	2003.5	1962.7
30°	6177.6	5949.9	5307.7	4635.7	3973.6	3397.0	2802.9	2320.3	2046.8	1858.7	1831.5
32.5°	6894.1	6515.4	5610.8	4666.6	3883.3	3197.7	2535.6	2223.8	1961.5	1747.4	1716.4
35°	7727.0	7239.3	5962.3	4677.8	3711.2	2901.9	2390.8	2168.1	1904.5	1661.9	1621.1
37.5°	8598.1	8006.6	6395.4	4665.4	3510.8	2577.7	2289.4	2087.7	1840.2	1642.2	1618.7
40°	9385.2	8745.4	6884.3	4630.7	3236.1	2367.3	2179.3	1976.3	1784.4	1634.8	1616.1
42.5°	10106.7	9388.9	7352.0	4572.5	2893.3	2217.6	2058.0	1893.4	1714.0	1530.8	1493.6
45°	10731.6	9982.9	7698.5	4434.0	2509.6	2064.2	1912.0	1778.3	1608.7	1426.8	1389.7
47.5°	11267.5	10473.0	7970.8	4196.4	2200.2	1920.6	1746.1	1640.9	1492.4	1319.2	1282.1
50°	11814.4	10871.4	8130.4	3804.1	1941.6	1756.0	1581.5	1481.3	1353.8	1227.6	1205.3
52.5°	12400.9	11518.7	8363.0	3158.1	1702.8	1582.7	1407.0	1298.2	1204.0	1150.8	1129.9
55°	12993.7	12092.8	8448.5	2388.4	1493.6	1446.7	1242.4	1101.3	1034.6	1001.2	996.2
57.5°	13582.8	12582.9	8156.4	1700.3	1355.1	1289.5	1066.7	933.0	853.9	877.4	913.3
60°	14185.5	12940.5	7410.2	1330.3	1246.1	1101.3	918.2	819.2	784.5	758.6	759.8
62.5°	14742.4	13107.6	6140.4	1129.9	1141.0	985.1	866.3	769.7	735.0	690.5	677.0
65°	15112.4	12813.0	4792.9	1045.7	1045.7	955.4	863.8	771.0	723.9	646.0	632.3
67.5°	15006.0	12045.9	3546.6	970.2	985.1	967.7	884.8	768.5	710.3	636.0	631.2
69°	14663.2	11310.7	2723.7	948.0	975.1	978.8	909.6	780.8	725.2	612.5	585.4
70°	14319.1	10744.0	2254.7	929.3	972.7	986.2	929.3	795.7	714.1	575.4	558.1
72.5°	13149.6	9080.8	1136.0	857.6	969.0	994.9	972.7	851.4	707.8	554.4	539.6
75°	11560.8	6984.4	728.9	796.9	938.0	1004.9	1007.3	903.4	710.3	542.0	523.5
77.5°	9262.7	4049.1	605.1	728.9	879.8	985.1	1018.5	943.0	740.0	563.0	542.0
80°	4925.2	1601.3	486.4	622.5	805.6	925.6	987.5	929.3	732.6	470.3	456.6
82.5°	2180.4	497.5	356.4	488.8	633.6	809.3	839.0	818.0	641.0	284.6	325.5
85°	612.5	205.4	237.6	351.5	438.1	573.0	657.1	659.6	497.5	123.8	28.5
87.5°	63.1	47.1	69.3	134.9	252.5	397.3	480.1	460.3	332.9	105.1	2.4
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)