

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: P285797

Luminaire Tested: **USSL-XL-C04-D-U-T3-BZ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285797
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-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36963 lumens
Efficiency: N/A
Efficacy: 140.0 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

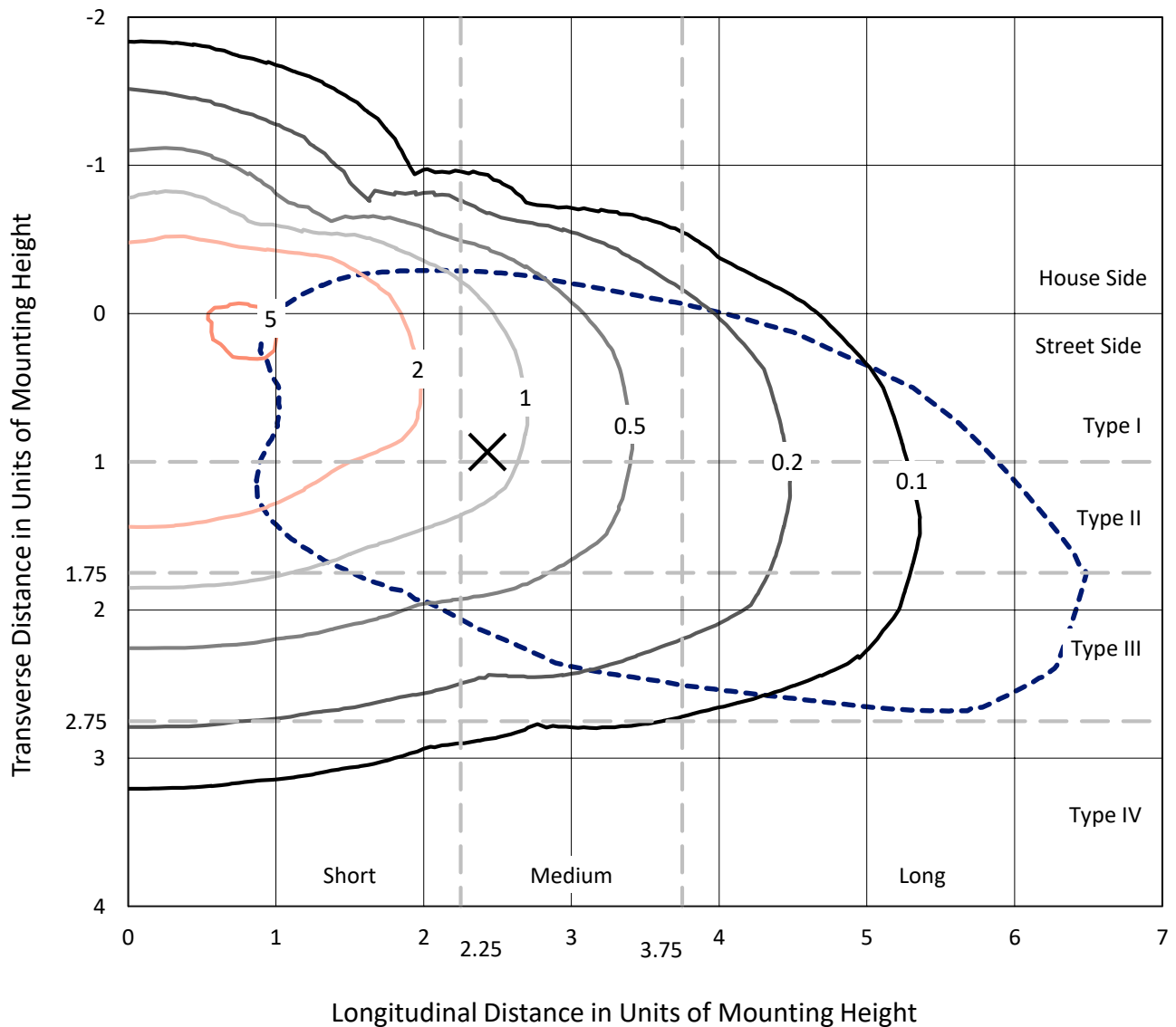
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

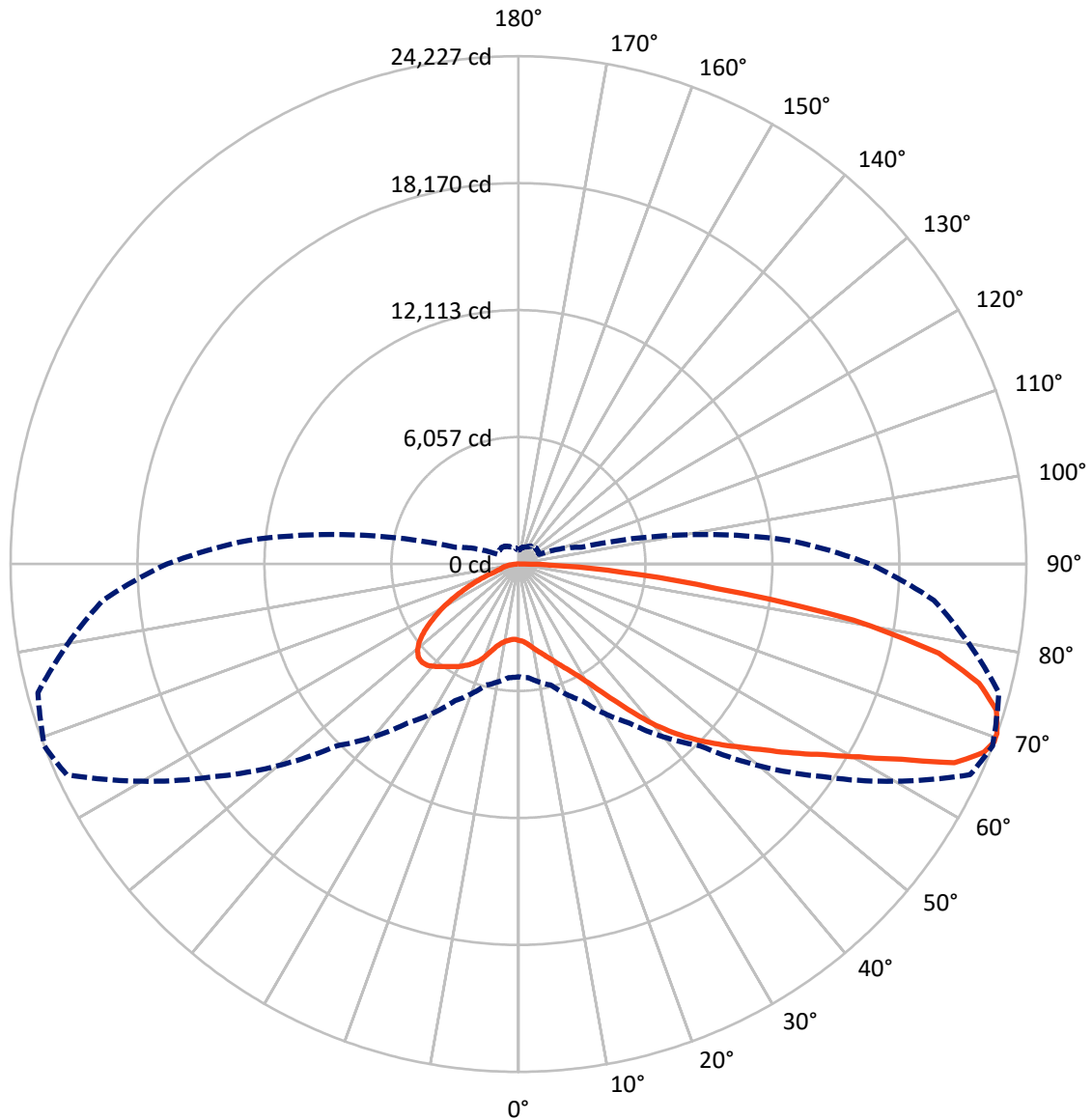
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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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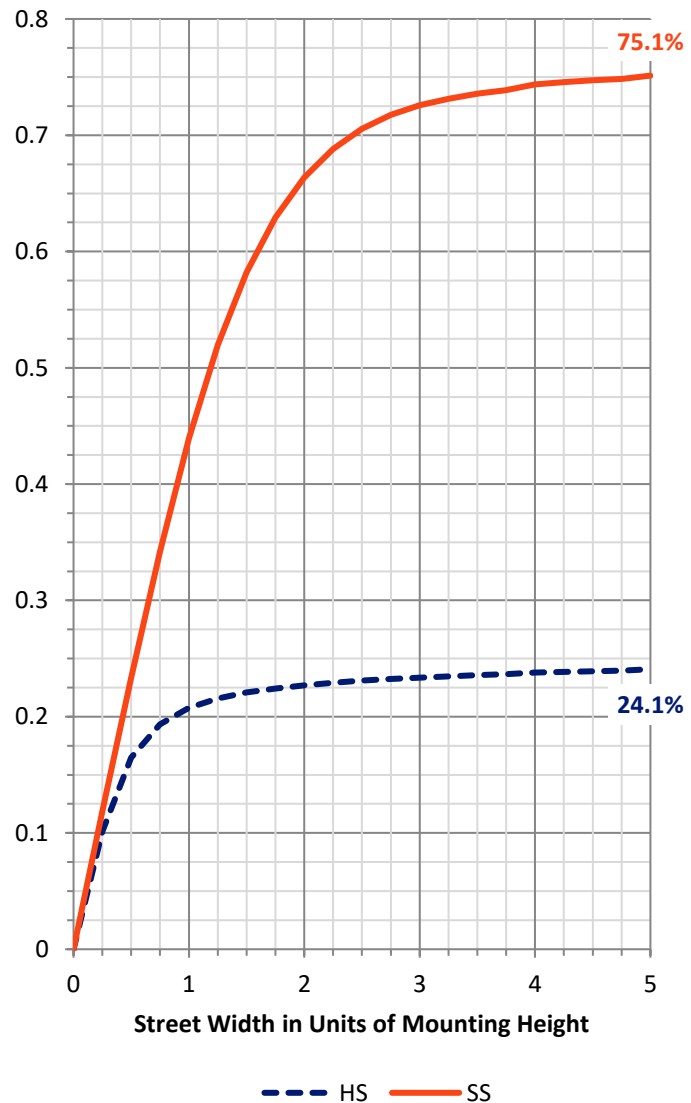
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9087.5	0.0	9087.5
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	27875.5	0.0	27875.5
	% Fixture	75.4	0.0	75.4
Total	Lumens	36963.0	0.0	36963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.2	1.0
10°-20°	1170.7	3.2
20°-30°	2192.6	5.9
30°-40°	3725.5	10.1
40°-50°	5717.0	15.5
50°-60°	7469.5	20.2
60°-70°	8505.5	23.0
70°-80°	6421.5	17.4
80°-90°	1401.4	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°	36963.0	100.0
0°-180°	36963.0	100.0

Coefficient of Utilization



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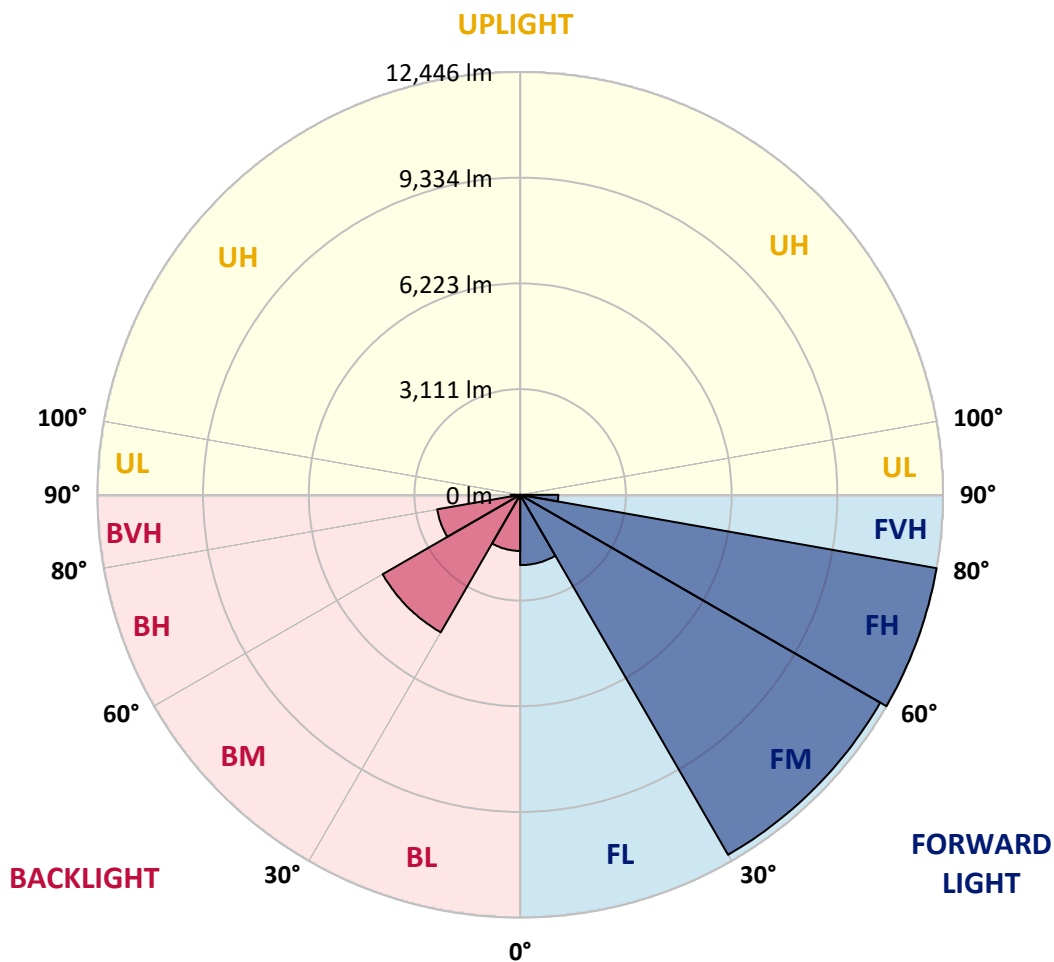
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2070.2	5.6			
FM	(30°-60°)	12236.2	33.1			
FH	(60°-80°)	12445.6	33.7			G5
FVH	(80°-90°)	1123.5	3.0			G5
BL	(0°-30°)	1652.4	4.5	B3/2500		
BM	(30°-60°)	4675.9	12.7	B3/5000		
BH	(60°-80°)	2481.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	277.9	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°	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7
2.5°	3785.4	3796.7	3795.3	3789.7	3786.8	3771.3	3751.5	3726.0	3683.5	3663.7	3638.2
5°	3946.7	3955.2	3956.6	3946.7	3935.4	3911.4	3870.3	3830.7	3784.0	3755.7	3706.2
7.5°	4084.0	4091.1	4103.8	4095.3	4089.7	4069.9	4030.2	3983.5	3922.7	3883.1	3813.7
10°	4194.4	4200.0	4210.0	4224.1	4251.0	4234.0	4187.3	4154.8	4099.6	4038.7	3952.4
12.5°	4273.6	4269.4	4297.7	4323.2	4378.4	4396.7	4364.2	4340.1	4286.4	4224.1	4122.2
15°	4310.4	4309.0	4358.5	4422.2	4504.3	4534.0	4534.0	4507.1	4477.4	4429.3	4321.7
17.5°	4389.7	4395.3	4427.9	4510.0	4597.7	4667.0	4733.5	4736.4	4713.7	4681.2	4569.4
20°	4511.4	4521.3	4538.3	4603.4	4701.0	4822.7	4947.2	4992.5	4981.2	4968.5	4880.7
22.5°	4664.2	4668.4	4664.2	4720.8	4851.0	5015.2	5194.9	5269.9	5276.9	5278.4	5234.5
25°	4909.0	4890.6	4843.9	4894.9	5046.3	5235.9	5455.3	5579.8	5612.3	5642.0	5746.8
27.5°	5356.2	5313.7	5226.0	5209.0	5295.3	5503.4	5775.1	5983.1	6029.8	6111.9	6390.6
30°	6077.9	6021.3	5939.2	5688.7	5654.8	5833.1	6178.4	6475.5	6568.9	6818.0	7139.2
32.5°	6809.5	6772.7	6680.7	6440.2	6185.4	6252.0	6591.6	7055.7	7256.7	7760.5	8057.6
35°	7437.8	7419.4	7367.1	7249.6	6953.9	6767.1	7062.8	7708.1	8083.1	8869.9	9137.4
37.5°	8043.5	8035.0	8037.8	7877.9	7753.4	7484.5	7603.4	8469.4	9085.0	10031.7	10211.4
40°	8572.7	8577.0	8620.9	8547.3	8526.0	8359.1	8240.2	9281.7	10125.1	11180.8	11223.2
42.5°	9007.2	9011.4	9215.2	9104.8	9236.4	9199.6	9028.4	10040.2	11081.7	12110.5	12104.9
45°	9293.0	9300.1	9501.1	9590.2	9869.0	9990.7	9863.3	10818.5	11974.7	12970.9	12859.1
47.5°	9505.3	9499.6	9614.3	9973.7	10449.2	10689.7	10736.4	11703.0	12840.7	13767.6	13573.7
50°	9619.9	9632.7	9852.0	10331.7	11033.6	11369.0	11625.1	12747.3	13729.4	14536.0	14262.9
52.5°	9692.1	9755.8	10077.0	10647.3	11561.5	12086.5	12407.7	13904.9	14731.3	15334.1	14993.1
55°	9743.0	9859.1	10176.1	10812.9	11889.8	12668.1	13142.1	15099.2	15914.3	16238.4	15794.0
57.5°	9379.4	9491.1	10006.2	10838.3	12148.7	13146.4	13924.7	16360.1	17148.3	17353.5	16586.5
60°	8758.1	8824.6	9488.3	10638.8	12092.1	13580.8	14952.1	17855.9	18680.9	18696.4	17421.4
62.5°	8118.5	8145.4	8816.1	10118.0	11837.4	13723.7	15979.4	19849.8	20497.9	20299.8	18308.7
65°	7269.4	7299.1	7991.1	9261.9	11221.8	13565.2	16820.0	21951.2	22858.3	22329.0	19188.9
67.5°	6160.0	6225.1	6867.5	8044.9	10126.5	12952.5	17422.8	23398.9	23955.0	23499.3	19797.4
69°	5383.1	5443.9	5983.1	7202.9	9273.2	12261.9	17676.1	23780.9	24226.7	23730.0	19899.3
70°	4824.1	4870.8	5376.0	6573.2	8605.3	11671.8	17731.3	23884.2	24212.5	23738.5	19844.1
72.5°	3438.7	3478.3	3752.9	4599.1	6522.2	9777.0	17461.0	23604.0	23844.6	23161.1	19121.0
75°	2543.0	2574.1	2738.2	3038.2	3796.7	6918.5	15777.1	22439.4	22695.5	21898.8	17613.9
77.5°	1845.3	1870.8	2029.3	2322.2	2671.7	3257.6	10937.4	20251.6	20503.5	19863.9	15162.9
80°	1259.4	1286.3	1429.3	1676.9	1952.9	2167.9	5370.3	14821.9	16210.1	15898.8	10805.8
82.5°	236.3	290.1	614.2	870.3	1098.1	1174.5	2030.7	8149.6	9469.9	9659.5	5635.0
85°	157.1	169.8	375.0	365.1	358.0	525.0	795.3	3907.1	4943.0	5121.3	2432.6
87.5°	77.8	82.1	111.8	154.2	196.7	236.3	261.8	1030.2	1488.7	1596.2	454.3
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°	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7	3646.7
2.5°	3628.3	3621.3	3600.0	3591.6	3585.9	3583.1	3549.1	3543.4	3526.5	3515.1	3505.2
5°	3682.1	3670.8	3621.3	3602.9	3574.6	3550.5	3493.9	3469.9	3452.9	3430.2	3420.3
7.5°	3776.9	3757.1	3682.1	3648.2	3598.6	3557.6	3479.8	3443.0	3410.4	3379.3	3373.6
10°	3905.7	3868.9	3765.6	3713.2	3641.1	3593.0	3502.4	3431.6	3383.5	3348.2	3346.7
12.5°	4074.1	4018.9	3894.4	3825.0	3735.9	3662.3	3559.0	3452.9	3373.6	3317.0	3314.2
15°	4275.0	4217.0	4091.1	4001.9	3897.2	3798.2	3632.6	3475.5	3343.9	3253.3	3242.0
17.5°	4521.3	4466.1	4351.5	4279.3	4132.1	3936.8	3701.9	3467.0	3278.8	3154.3	3135.9
20°	4832.6	4848.2	4740.6	4583.5	4338.7	4051.5	3735.9	3423.2	3150.0	2976.0	2950.5
22.5°	5267.0	5319.4	5139.7	4851.0	4495.8	4112.3	3721.7	3307.1	2973.1	2762.3	2741.1
25°	5799.1	5783.6	5459.5	5047.7	4576.5	4110.9	3642.5	3141.5	2748.1	2510.4	2494.8
27.5°	6355.3	6261.9	5760.9	5185.0	4590.6	4033.1	3486.8	2892.5	2489.2	2291.1	2244.4
30°	7064.2	6803.9	6069.4	5301.0	4543.9	3884.5	3205.2	2653.3	2340.6	2125.5	2094.4
32.5°	7883.6	7450.6	6416.1	5336.4	4440.6	3656.6	2899.6	2543.0	2242.9	1998.1	1962.8
35°	8835.9	8278.4	6818.0	5349.1	4243.9	3318.4	2734.0	2479.3	2177.9	1900.5	1853.8
37.5°	9832.2	9155.8	7313.3	5335.0	4014.7	2947.7	2618.0	2387.3	2104.3	1877.9	1851.0
40°	10732.2	10000.6	7872.3	5295.3	3700.5	2707.1	2492.0	2259.9	2040.6	1869.4	1848.1
42.5°	11557.2	10736.4	8407.2	5228.8	3308.5	2535.9	2353.3	2165.1	1959.9	1750.5	1708.0
45°	12271.8	11415.7	8803.4	5070.3	2869.8	2360.4	2186.3	2033.5	1839.6	1631.6	1589.2
47.5°	12884.6	11976.1	9114.7	4798.6	2516.1	2196.3	1996.7	1876.4	1706.6	1508.5	1466.1
50°	13510.1	12431.7	9297.3	4350.0	2220.3	2008.0	1808.5	1693.9	1548.1	1403.8	1378.3
52.5°	14180.8	13171.8	9563.3	3611.4	1947.2	1809.9	1609.0	1484.5	1376.9	1316.1	1292.0
55°	14858.7	13828.5	9661.0	2731.2	1708.0	1654.3	1420.8	1259.4	1183.0	1144.8	1139.2
57.5°	15532.3	14388.8	9327.0	1944.4	1549.5	1474.5	1219.8	1067.0	976.4	1003.3	1044.4
60°	16221.4	14797.8	8473.7	1521.2	1425.0	1259.4	1050.0	936.8	897.2	867.5	868.9
62.5°	16858.2	14988.8	7021.8	1292.0	1304.7	1126.4	990.6	880.2	840.6	789.6	774.1
65°	17281.3	14652.1	5480.7	1195.8	1195.8	1092.5	987.7	881.6	827.8	738.7	723.1
67.5°	17159.6	13774.7	4055.7	1109.4	1126.4	1106.6	1011.8	878.8	812.3	727.4	721.7
69°	16767.6	12934.1	3114.7	1084.0	1115.1	1119.4	1040.1	892.9	829.3	700.5	669.3
70°	16374.2	12286.0	2578.3	1062.7	1112.3	1127.8	1062.7	909.9	816.5	658.0	638.2
72.5°	15037.0	10384.1	1299.1	980.7	1108.0	1137.7	1112.3	973.6	809.4	634.0	617.0
75°	13220.0	7986.9	833.5	911.3	1072.7	1149.1	1151.9	1033.0	812.3	619.8	598.6
77.5°	10592.1	4630.2	692.0	833.5	1006.1	1126.4	1164.6	1078.3	846.2	643.9	619.8
80°	5632.1	1831.2	556.1	711.8	921.2	1058.5	1129.3	1062.7	837.7	537.7	522.2
82.5°	2493.4	568.9	407.6	559.0	724.5	925.5	959.4	935.4	733.0	325.5	372.2
85°	700.5	234.9	271.7	401.9	500.9	655.2	751.4	754.3	568.9	141.5	32.5
87.5°	72.2	53.8	79.2	154.2	288.7	454.3	549.1	526.4	380.7	120.3	2.8
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)