

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: P285827

Luminaire Tested: **USSL-XL-C04-D-U-T4-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
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-T4-AP-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37748.3 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

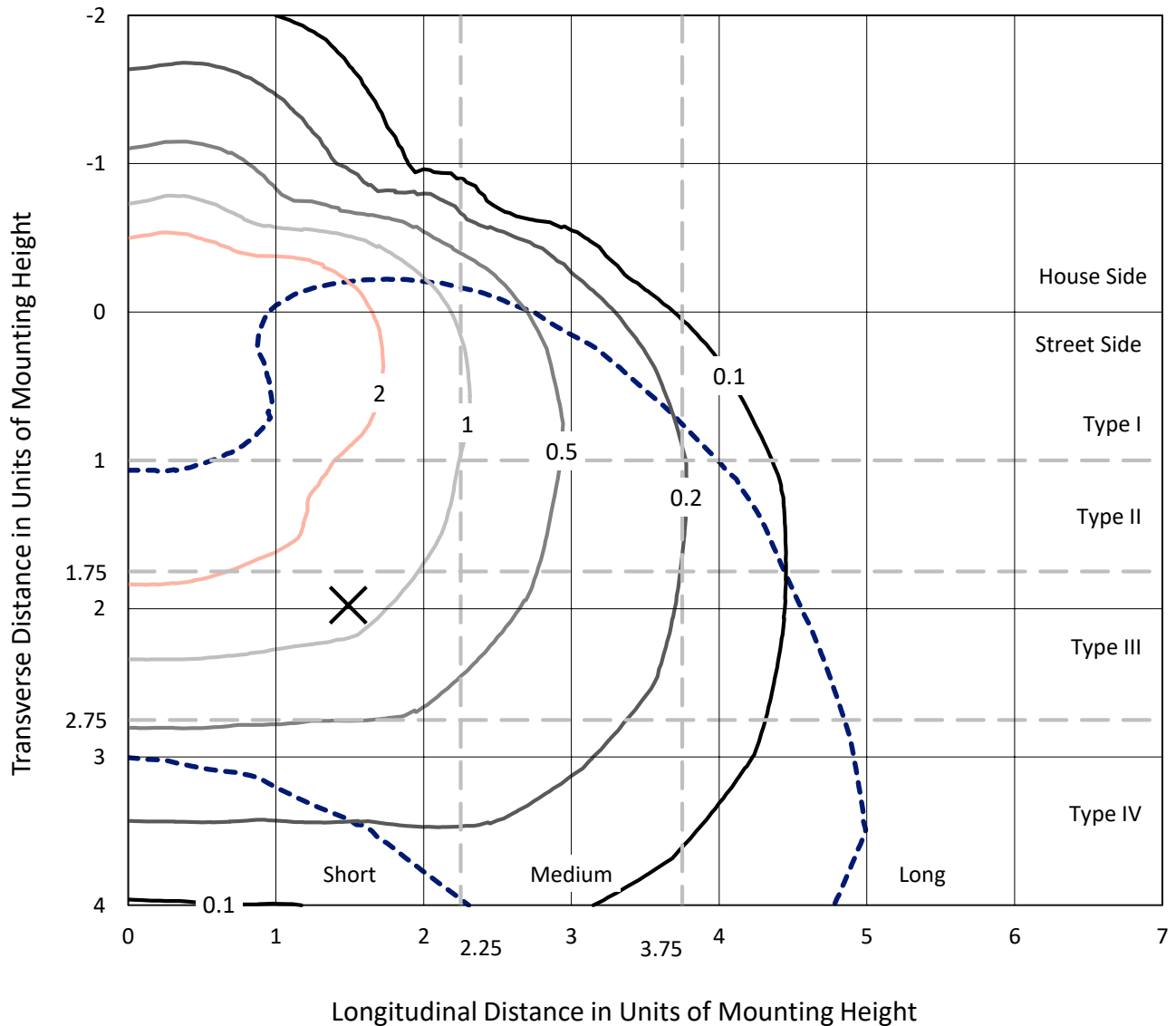
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

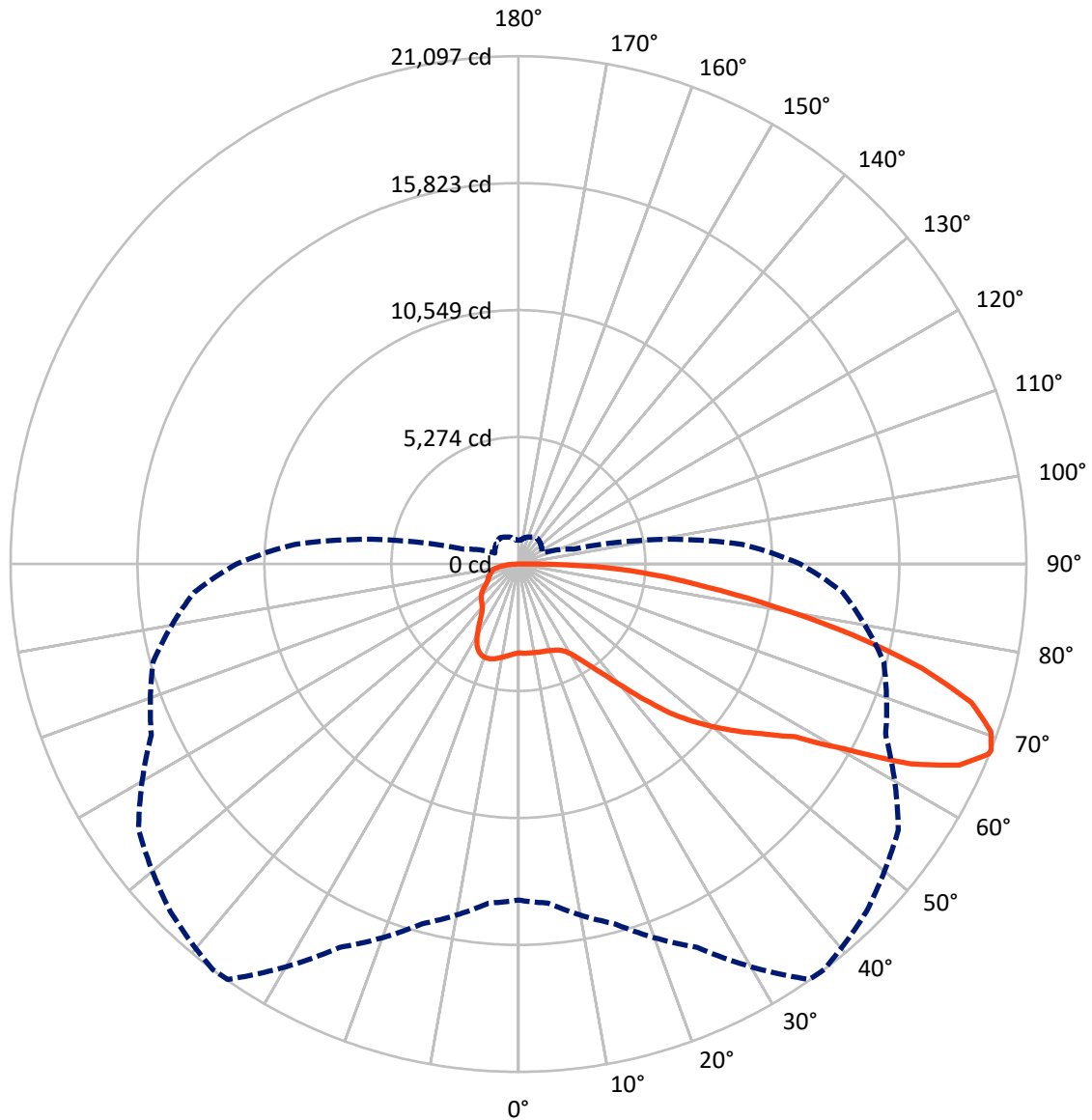
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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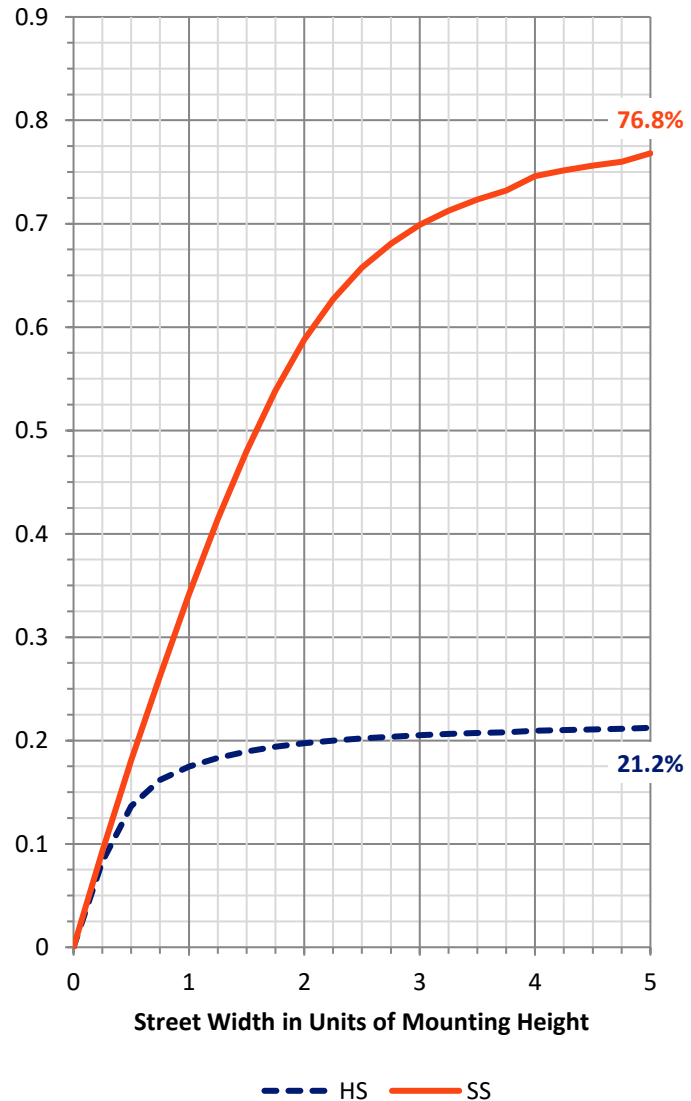
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8150.9	0.0	8150.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	29597.4	0.0	29597.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	37748.3	0.0	37748.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	0.9
10°-20°	1114.2	3.0
20°-30°	1903.1	5.0
30°-40°	3031.9	8.0
40°-50°	5258.5	13.9
50°-60°	7622.4	20.2
60°-70°	9612.7	25.5
70°-80°	7123.0	18.9
80°-90°	1724.1	4.6
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°	37748.3	100.0
0°-180°	37748.3	100.0

Coefficient of Utilization



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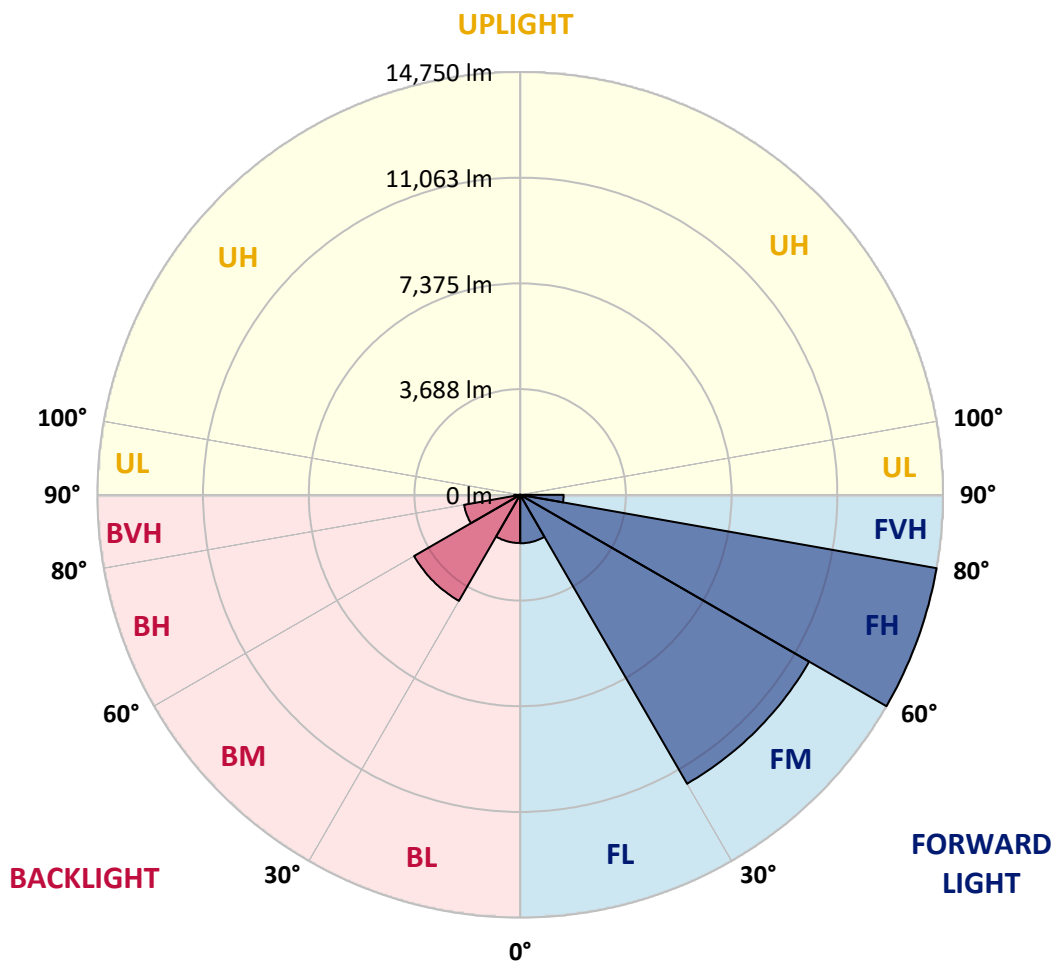
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1692.2	4.5			
FM	(30°-60°)	11639.9	30.8			
FH	(60°-80°)	14750.1	39.1			G5
FVH	(80°-90°)	1515.1	4.0			G5
BL	(0°-30°)	1683.5	4.5	B3/2500		
BM	(30°-60°)	4272.9	11.3	B3/5000		
BH	(60°-80°)	1985.6	5.3	B3/2500		G3/2500
BVH	(80°-90°)	209.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3
2.5°	3689.7	3699.9	3702.8	3697.0	3702.8	3708.6	3695.6	3694.1	3688.3	3665.1	3668.1
5°	3691.2	3704.2	3705.6	3701.3	3711.5	3717.3	3711.5	3705.6	3699.9	3666.6	3673.8
7.5°	3691.2	3701.3	3704.2	3701.3	3715.8	3725.9	3725.9	3730.2	3730.2	3692.7	3698.4
10°	3678.2	3686.9	3691.2	3698.4	3723.0	3737.5	3746.2	3766.5	3778.0	3751.9	3753.4
12.5°	3618.9	3626.1	3640.5	3682.5	3740.4	3757.8	3782.4	3818.5	3847.4	3847.4	3850.3
15°	3572.6	3579.8	3607.3	3663.8	3751.9	3775.0	3822.8	3883.6	3937.1	3966.0	3989.1
17.5°	3584.2	3592.8	3633.3	3681.0	3769.3	3792.4	3860.5	3948.7	4036.8	4099.1	4145.4
20°	3620.3	3626.1	3672.4	3727.4	3821.4	3837.3	3903.8	4012.3	4135.2	4237.9	4313.2
22.5°	3723.0	3720.1	3757.8	3779.4	3876.4	3890.8	3967.4	4078.8	4237.9	4392.8	4502.7
25°	3808.3	3821.4	3851.8	3869.1	3948.7	3961.7	4057.2	4180.0	4363.8	4563.4	4739.9
27.5°	3902.3	3914.0	3944.3	3983.4	4094.7	4102.0	4168.5	4320.4	4524.3	4768.8	5050.8
30°	4115.0	4113.6	4143.9	4185.9	4336.3	4349.3	4411.5	4567.7	4757.1	5062.4	5402.3
32.5°	4482.4	4479.5	4483.8	4541.7	4705.1	4735.5	4815.0	5021.9	5259.1	5554.2	5931.6
35°	5235.9	5205.6	5147.7	5101.4	5194.0	5228.7	5402.3	5658.3	6082.1	6662.1	7129.3
37.5°	6481.3	6433.6	6238.3	5973.6	5866.5	5862.2	5983.8	6372.9	7032.3	8195.3	8617.6
40°	7674.5	7676.0	7411.4	7052.6	6718.5	6701.1	6631.7	7113.4	8060.8	9634.5	9832.6
42.5°	8805.6	8798.4	8490.3	8162.0	7762.8	7710.8	7508.2	7878.6	9087.7	10819.0	10858.0
45°	9825.4	9802.3	9470.9	9259.8	8917.0	8812.9	8543.9	8661.0	10049.5	11769.3	11631.9
47.5°	10810.3	10787.2	10373.6	10169.6	9868.7	9781.9	9497.0	9549.1	10969.4	12560.5	12258.2
50°	11827.2	11819.9	11221.2	11023.0	10703.3	10667.2	10495.0	10532.7	11929.9	13218.6	12841.1
52.5°	13032.0	12845.5	12172.8	11793.9	11566.8	11565.4	11373.0	11469.9	12991.5	13805.8	13246.1
55°	14325.1	14089.4	13400.8	12855.5	12465.1	12470.8	12171.5	12327.6	13924.4	14330.9	13633.7
57.5°	15247.9	15198.8	14993.3	14448.0	13640.9	13545.5	13085.5	13208.5	14743.1	14874.7	13912.9
60°	16108.5	16318.2	16455.7	16282.1	15875.6	15599.4	14323.7	14139.9	15464.9	15353.5	14058.9
62.5°	16650.9	16759.4	17400.2	17638.7	18276.7	18298.3	16772.4	15268.2	16079.5	15654.3	14124.0
65°	16053.6	16214.1	17275.7	18208.7	20028.2	20132.4	19488.7	17149.9	16569.9	15758.5	14001.1
67.5°	14387.3	14555.1	15830.8	17744.4	20997.4	21068.2	20400.0	19102.6	16814.4	15736.8	13640.9
68°	13960.6	14139.9	15470.6	17569.3	21063.8	21097.1	20436.1	19264.5	16830.3	15712.2	13523.8
70°	12194.6	12371.0	13719.0	16474.4	20800.6	20822.3	20207.6	19435.2	16747.8	15501.0	12752.8
72.5°	9579.5	9757.3	10820.5	13975.1	19478.6	19668.0	19354.2	18949.2	16399.2	14678.0	10934.8
75°	6787.9	6970.2	8076.6	10937.6	16792.6	17319.2	17945.4	18017.8	15094.6	12605.3	8146.1
77.5°	4786.1	4935.1	5892.6	8176.5	13552.7	14233.9	15538.7	15645.6	12641.5	9618.5	4297.3
80°	3106.9	3234.2	4091.8	5992.5	10244.8	10833.4	12266.9	11824.2	8983.6	5230.2	747.8
82.5°	1876.0	1971.4	2606.4	4145.4	7496.7	7888.6	8472.9	7098.9	4168.5	739.1	261.8
85°	1076.1	1141.2	1609.9	2662.8	5282.2	5616.3	5697.4	3563.9	783.9	203.9	147.5
87.5°	551.0	584.3	863.5	1635.8	3121.3	3264.5	2858.1	1275.7	156.2	91.2	73.8
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°	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3	3688.3
2.5°	3653.6	3663.8	3671.0	3695.6	3721.6	3734.6	3721.6	3741.9	3749.1	3743.2	3734.6
5°	3662.3	3678.2	3689.7	3738.9	3767.8	3789.6	3775.0	3804.0	3814.2	3802.6	3802.6
7.5°	3686.9	3708.6	3727.4	3792.4	3825.7	3854.6	3846.0	3866.2	3874.9	3860.5	3869.1
10°	3751.9	3773.7	3798.3	3879.2	3901.0	3928.4	3912.5	3928.4	3931.3	3921.2	3928.4
12.5°	3864.8	3879.2	3926.9	4009.4	4012.3	4019.6	3986.3	3955.9	3942.8	3924.1	3937.1
15°	4009.4	4035.5	4100.5	4170.0	4151.2	4135.2	4052.8	3954.5	3892.3	3846.0	3843.1
17.5°	4170.0	4216.3	4297.3	4342.1	4298.6	4226.4	4087.5	3921.2	3770.7	3688.3	3662.3
20°	4334.9	4407.2	4496.8	4505.5	4431.8	4292.9	4081.7	3835.9	3587.0	3433.8	3396.1
22.5°	4535.9	4630.0	4710.9	4667.5	4519.9	4316.0	4028.3	3685.4	3344.1	3111.2	3076.5
25°	4802.0	4894.6	4909.0	4781.7	4553.2	4272.7	3905.3	3461.2	3028.8	2739.5	2712.0
27.5°	5123.1	5172.3	5078.3	4841.1	4512.7	4142.5	3695.6	3150.2	2677.3	2425.6	2383.6
30°	5478.9	5461.6	5202.7	4842.6	4394.1	3921.2	3377.4	2797.3	2399.6	2182.7	2142.2
32.5°	5930.2	5816.0	5328.5	4777.4	4198.9	3623.3	3002.7	2515.2	2208.6	1987.3	1948.3
35°	6827.0	6479.8	5499.2	4674.8	3940.0	3266.0	2674.3	2311.3	2045.2	1790.6	1754.5
37.5°	8190.9	7472.1	5807.3	4561.9	3652.1	2900.0	2422.7	2152.2	1916.5	1644.5	1588.2
40°	9387.1	8568.4	6299.1	4456.3	3358.5	2622.3	2278.0	2075.6	1845.6	1570.8	1512.9
42.5°	10305.6	9446.4	6861.7	4330.5	3051.9	2416.9	2217.3	2065.4	1836.9	1570.8	1517.2
45°	11047.5	10171.0	7362.2	4193.1	2755.4	2254.9	2162.4	2046.7	1819.5	1562.1	1511.5
47.5°	11633.4	10712.0	7757.0	4035.5	2447.3	2145.0	2105.9	1981.6	1774.7	1536.1	1485.4
50°	12141.0	11099.6	7978.3	3850.3	2174.0	2058.2	2026.4	1877.4	1685.0	1459.4	1426.1
52.5°	12495.4	11414.9	8062.2	3773.7	1978.6	1959.9	1917.9	1771.8	1588.2	1368.3	1330.7
55°	12761.5	11577.0	7992.8	3598.7	1783.4	1808.0	1789.2	1690.9	1520.1	1311.8	1274.3
57.5°	12897.5	11630.5	7794.6	2939.1	1598.2	1627.2	1640.2	1646.0	1510.0	1327.8	1293.1
60°	12945.2	11546.6	7362.2	2098.7	1400.1	1458.0	1530.3	1552.0	1465.2	1267.0	1238.1
62.5°	12872.9	11328.2	6514.6	1450.7	1249.7	1352.4	1447.8	1442.1	1349.5	1177.3	1138.3
65°	12590.9	10793.0	4953.9	1170.1	1199.1	1304.6	1410.2	1339.4	1249.7	1090.5	1070.3
67.5°	11908.2	9666.3	2778.5	1080.5	1183.2	1277.2	1345.1	1259.8	1160.1	1009.6	1000.9
68°	11705.6	9335.1	2372.1	1074.6	1180.3	1268.5	1327.8	1239.6	1142.7	996.5	990.8
70°	10525.4	7628.3	1070.3	1055.9	1162.9	1236.7	1280.0	1183.2	1079.0	951.7	943.1
72.5°	8133.0	4724.0	718.8	1003.8	1119.5	1188.9	1216.4	1125.3	1038.5	896.8	885.2
75°	4820.8	1298.9	681.3	914.2	1045.7	1142.7	1171.6	1080.5	977.8	814.3	795.6
77.5°	1186.0	468.6	659.6	812.8	969.1	1065.9	1112.3	1050.0	925.7	733.3	714.5
80°	360.2	373.2	627.8	702.9	872.2	951.7	979.2	979.2	856.3	516.4	543.8
82.5°	237.2	299.4	535.1	527.9	692.9	788.2	736.2	739.1	672.6	230.0	269.0
85°	149.0	244.4	361.6	345.7	441.1	483.1	523.6	538.1	472.9	66.6	4.3
87.5°	76.6	104.2	127.3	136.0	175.0	250.2	335.6	329.7	243.0	59.4	0.0
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)