

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: P285836

Luminaire Tested: **USSL-XL-C049-D-U-T4-BZ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285836
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-C049-D-U-T4-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31598 lumens
Efficiency: N/A
Efficacy: 145.6 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): 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

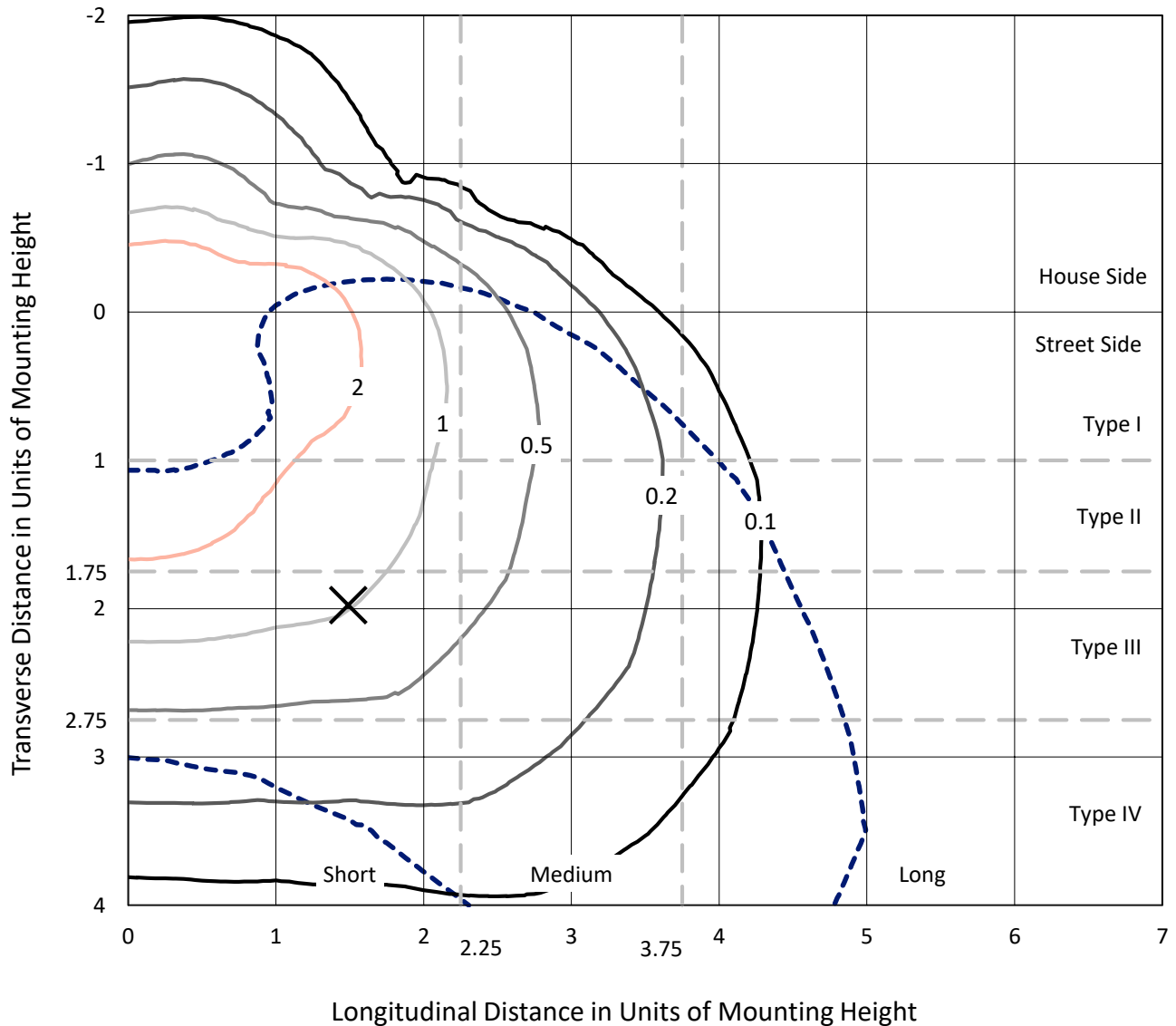


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

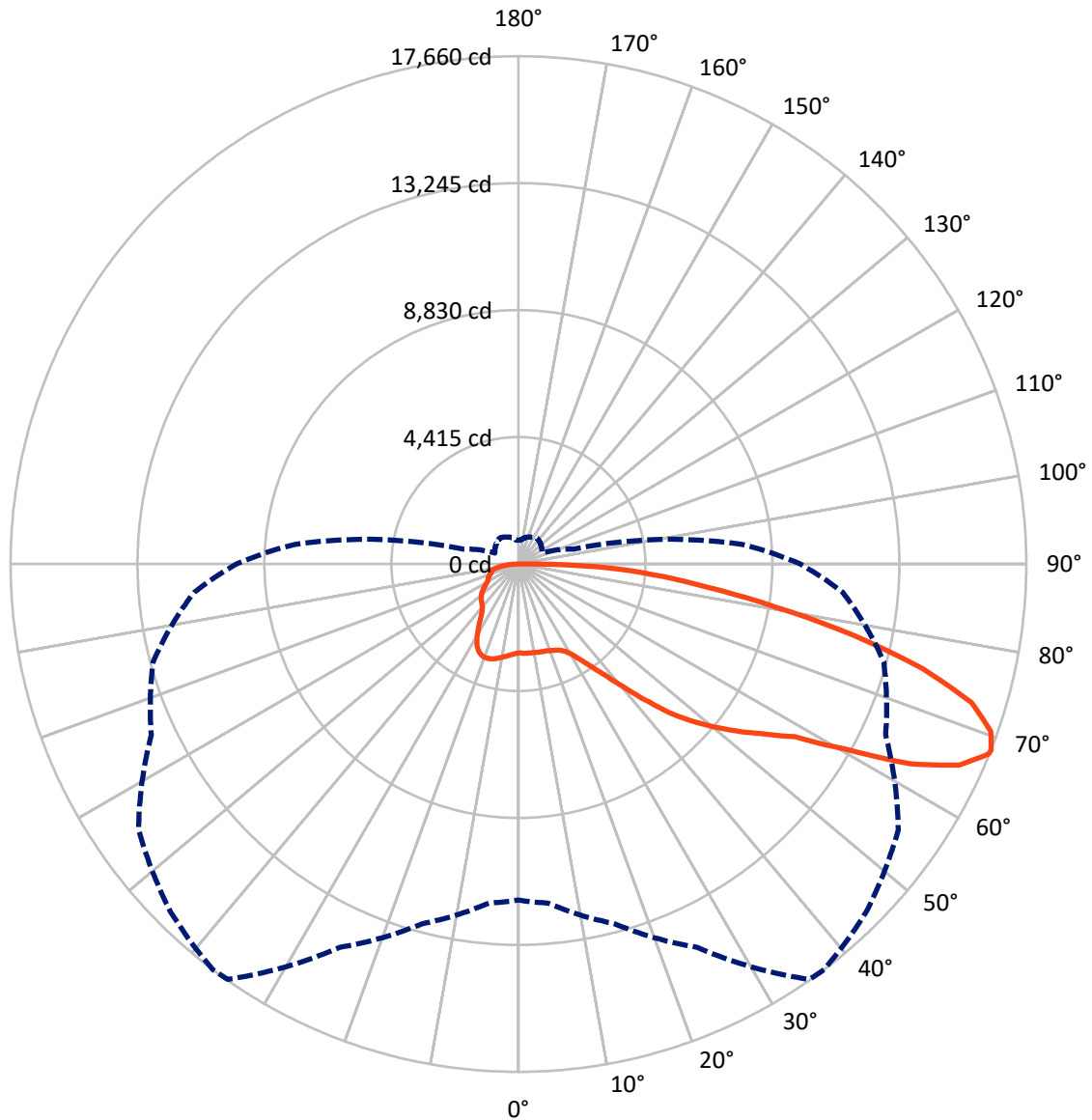


Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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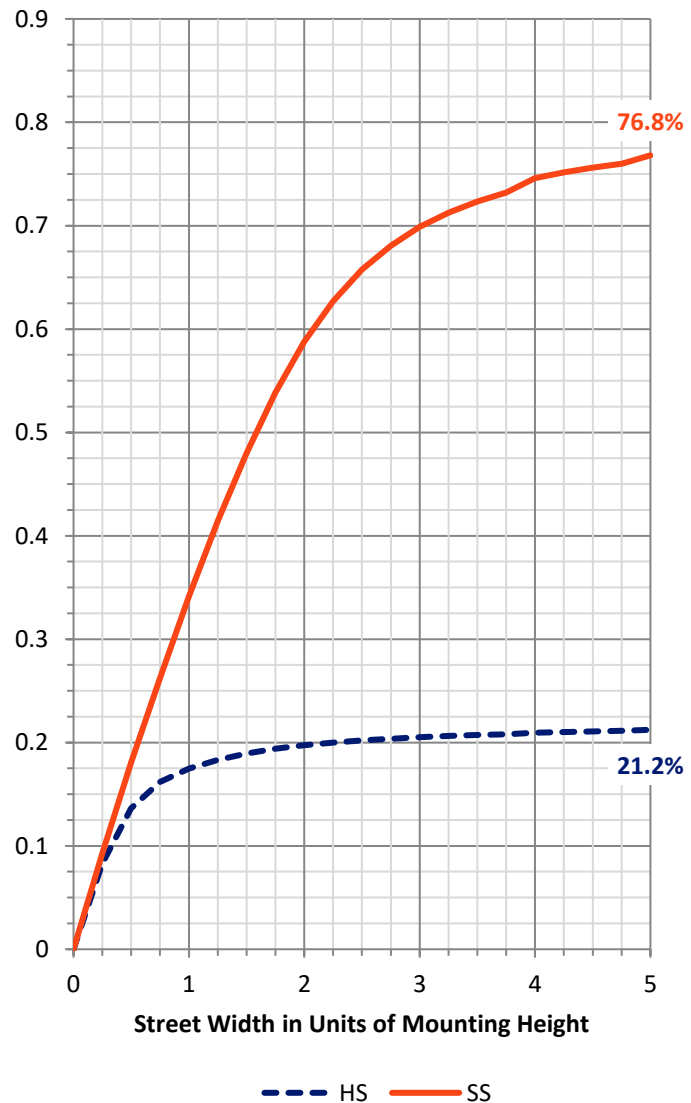
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6822.9	0.0	6822.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24775.1	0.0	24775.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	31598.0	0.0	31598.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.1	0.9
10°-20°	932.6	3.0
20°-30°	1593.0	5.0
30°-40°	2537.9	8.0
40°-50°	4401.7	13.9
50°-60°	6380.5	20.2
60°-70°	8046.5	25.5
70°-80°	5962.4	18.9
80°-90°	1443.2	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°	31598.0	100.0
0°-180°	31598.0	100.0



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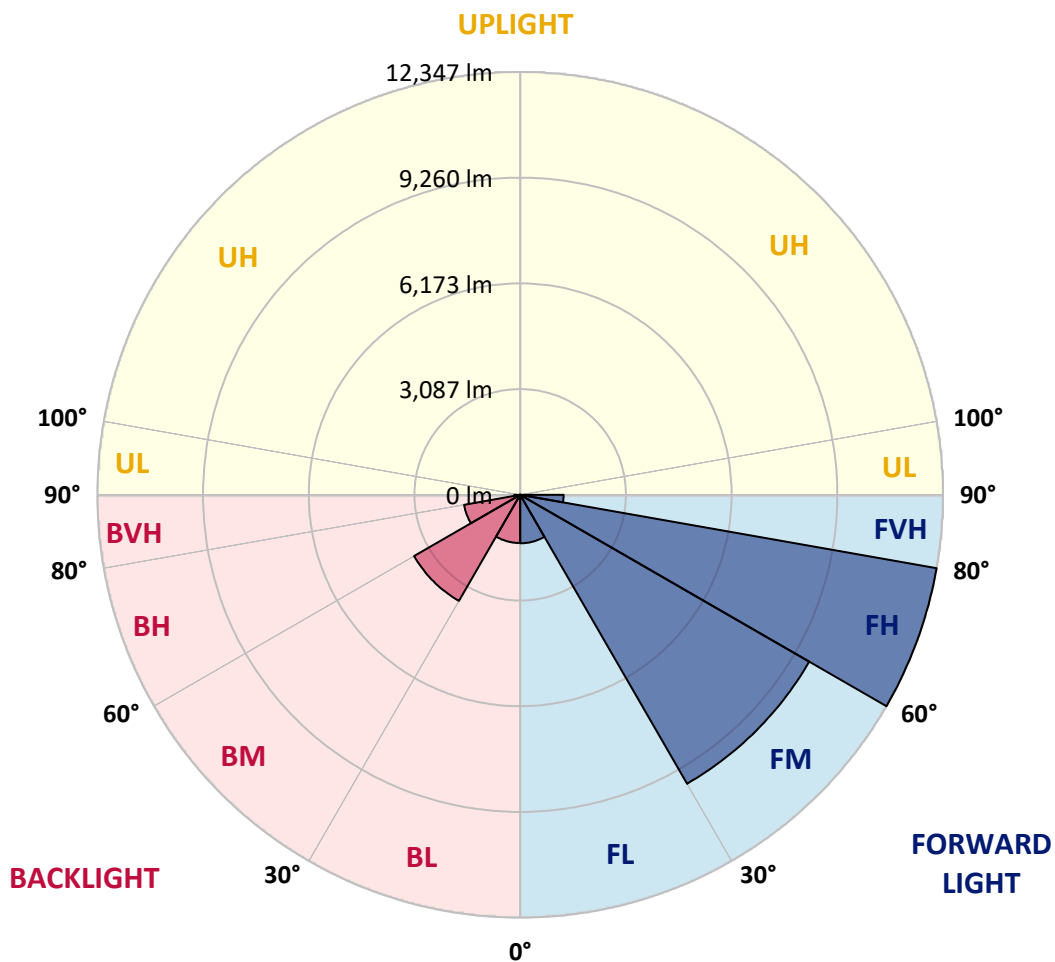
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1416.5	4.5			
FM	(30°-60°)	9743.4	30.8			
FH	(60°-80°)	12346.9	39.1			G5
FVH	(80°-90°)	1268.2	4.0			G5
BL	(0°-30°)	1409.2	4.5	B3/2500		
BM	(30°-60°)	3576.7	11.3	B3/5000		
BH	(60°-80°)	1662.1	5.3	B3/2500		G3/2500
BVH	(80°-90°)	174.9	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°	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4
2.5°	3088.6	3097.1	3099.5	3094.6	3099.5	3104.3	3093.4	3092.2	3087.4	3068.0	3070.4
5°	3089.8	3100.7	3101.9	3098.3	3106.7	3111.6	3106.7	3101.9	3097.1	3069.2	3075.3
7.5°	3089.8	3098.3	3100.7	3098.3	3110.4	3118.9	3118.9	3122.5	3122.5	3091.0	3095.8
10°	3078.9	3086.2	3089.8	3095.8	3116.4	3128.5	3135.8	3152.8	3162.4	3140.6	3141.9
12.5°	3029.3	3035.3	3047.4	3082.5	3131.0	3145.5	3166.1	3196.3	3220.6	3220.6	3223.0
15°	2990.5	2996.6	3019.6	3066.8	3140.6	3160.0	3200.0	3250.8	3295.6	3319.8	3339.2
17.5°	3000.2	3007.5	3041.4	3081.3	3155.2	3174.5	3231.4	3305.3	3379.2	3431.2	3470.0
20°	3030.5	3035.3	3074.1	3120.1	3198.8	3212.1	3267.8	3358.6	3461.5	3547.5	3610.4
22.5°	3116.4	3114.0	3145.5	3163.6	3244.8	3256.9	3321.0	3414.3	3547.5	3677.0	3769.0
25°	3187.9	3198.8	3224.2	3238.7	3305.3	3316.2	3396.1	3499.0	3652.8	3819.9	3967.6
27.5°	3266.6	3276.2	3301.7	3334.4	3427.6	3433.6	3489.3	3616.5	3787.2	3991.8	4227.9
30°	3444.5	3443.3	3468.8	3503.9	3629.8	3640.7	3692.7	3823.5	3982.1	4237.6	4522.1
32.5°	3752.1	3749.6	3753.3	3801.7	3938.5	3963.9	4030.5	4203.7	4402.2	4649.2	4965.2
35°	4382.9	4357.4	4309.0	4270.3	4347.7	4376.8	4522.1	4736.4	5091.1	5576.6	5967.7
37.5°	5425.3	5385.3	5221.9	5000.3	4910.7	4907.1	5008.8	5334.5	5886.6	6860.0	7213.6
40°	6424.2	6425.4	6203.8	5903.5	5623.9	5609.3	5551.2	5954.4	6747.4	8064.7	8230.6
42.5°	7370.9	7364.9	7107.0	6832.2	6498.0	6454.4	6284.9	6594.9	7607.0	9056.3	9089.0
45°	8224.5	8205.1	7927.9	7751.1	7464.2	7377.0	7151.8	7249.9	8412.2	9851.7	9736.7
47.5°	9049.0	9029.7	8683.4	8512.7	8260.8	8188.2	7949.7	7993.3	9182.2	10514.0	10261.0
50°	9900.2	9894.1	9392.9	9227.0	8959.4	8929.2	8785.1	8816.6	9986.1	11064.9	10748.9
52.5°	10908.7	10752.5	10189.5	9872.3	9682.2	9681.0	9520.0	9601.1	10874.8	11556.5	11087.9
55°	11991.1	11793.8	11217.5	10761.0	10434.1	10438.9	10188.3	10319.1	11655.7	11996.0	11412.4
57.5°	12763.6	12722.4	12550.5	12094.0	11418.4	11338.5	10953.5	11056.4	12341.0	12451.2	11646.1
60°	13483.9	13659.5	13774.5	13629.2	13289.0	13057.8	11989.9	11836.1	12945.2	12851.9	11768.3
62.5°	13938.0	14028.8	14565.1	14764.9	15298.8	15317.0	14039.7	12780.5	13459.7	13103.8	11822.8
65°	13437.9	13572.3	14461.0	15241.9	16765.0	16852.2	16313.4	14355.7	13870.2	13190.9	11719.9
67.5°	12043.2	12183.6	13251.5	14853.3	17576.2	17635.6	17076.2	15990.2	14074.8	13172.8	11418.4
68°	11686.0	11836.1	12950.0	14706.8	17631.9	17659.8	17106.5	16125.8	14088.1	13152.2	11320.4
70°	10207.7	10355.4	11483.8	13790.3	17411.6	17429.7	16915.2	16268.6	14019.1	12975.4	10675.0
72.5°	8018.7	8167.6	9057.5	11698.1	16305.0	16463.6	16200.8	15861.8	13727.3	12286.5	9153.1
75°	5682.0	5834.5	6760.7	9155.6	14056.6	14497.3	15021.6	15082.1	12635.2	10551.5	6818.9
77.5°	4006.3	4131.0	4932.5	6844.3	11344.6	11914.8	13006.9	13096.5	10581.8	8051.4	3597.1
80°	2600.7	2707.2	3425.2	5016.1	8575.6	9068.4	10268.2	9897.8	7519.9	4378.0	625.9
82.5°	1570.3	1650.2	2181.7	3470.0	6275.2	6603.3	7092.5	5942.3	3489.3	618.7	219.1
85°	900.8	955.3	1347.5	2229.0	4421.6	4701.3	4769.1	2983.2	656.2	170.7	123.5
87.5°	461.3	489.1	722.8	1369.3	2612.8	2732.6	2392.4	1067.9	130.8	76.3	61.7
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°	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4	3087.4
2.5°	3058.3	3066.8	3072.8	3093.4	3115.2	3126.1	3115.2	3132.2	3138.2	3133.4	3126.1
5°	3065.6	3078.9	3088.6	3129.7	3154.0	3172.1	3160.0	3184.2	3192.7	3183.0	3183.0
7.5°	3086.2	3104.3	3120.1	3174.5	3202.4	3226.6	3219.3	3236.3	3243.6	3231.4	3238.7
10°	3140.6	3158.8	3179.4	3247.2	3265.3	3288.4	3275.0	3288.4	3290.8	3282.3	3288.4
12.5°	3235.1	3247.2	3287.1	3356.2	3358.6	3364.6	3336.8	3311.4	3300.5	3284.7	3295.6
15°	3356.2	3377.9	3432.4	3490.5	3474.8	3461.5	3392.5	3310.1	3258.1	3219.3	3216.9
17.5°	3490.5	3529.3	3597.1	3634.6	3598.3	3537.8	3421.5	3282.3	3156.4	3087.4	3065.6
20°	3628.6	3689.1	3764.2	3771.4	3709.7	3593.5	3416.7	3210.9	3002.6	2874.3	2842.8
22.5°	3796.9	3875.6	3943.4	3907.0	3783.5	3612.8	3371.9	3085.0	2799.2	2604.3	2575.2
25°	4019.6	4097.1	4109.2	4002.7	3811.4	3576.5	3269.0	2897.3	2535.3	2293.1	2270.1
27.5°	4288.4	4329.6	4250.9	4052.3	3777.5	3467.5	3093.4	2637.0	2241.1	2030.4	1995.3
30°	4586.3	4571.7	4355.0	4053.5	3678.2	3282.3	2827.1	2341.6	2008.6	1827.0	1793.1
32.5°	4964.0	4868.4	4460.3	3999.1	3514.8	3032.9	2513.5	2105.5	1848.8	1663.5	1630.9
35°	5714.7	5424.1	4603.2	3913.1	3298.0	2733.8	2238.6	1934.8	1712.0	1498.9	1468.6
37.5°	6856.4	6254.7	4861.1	3818.7	3057.1	2427.5	2028.0	1801.6	1604.2	1376.6	1329.4
40°	7857.7	7172.4	5272.7	3730.3	2811.3	2195.1	1906.9	1737.4	1544.9	1314.9	1266.4
42.5°	8626.5	7907.3	5743.7	3624.9	2554.6	2023.1	1856.1	1728.9	1537.6	1314.9	1270.1
45°	9247.6	8513.9	6162.6	3509.9	2306.4	1887.5	1810.0	1713.2	1523.1	1307.6	1265.2
47.5°	9737.9	8966.7	6493.2	3377.9	2048.6	1795.5	1762.8	1658.7	1485.6	1285.8	1243.4
50°	10162.9	9291.2	6678.4	3223.0	1819.7	1722.9	1696.2	1571.5	1410.5	1221.6	1193.8
52.5°	10459.5	9555.1	6748.6	3158.8	1656.3	1640.5	1605.4	1483.1	1329.4	1145.4	1113.9
55°	10682.3	9690.7	6690.5	3012.3	1492.8	1513.4	1497.7	1415.3	1272.5	1098.1	1066.7
57.5°	10796.1	9735.5	6524.6	2460.2	1337.9	1362.1	1373.0	1377.8	1264.0	1111.5	1082.4
60°	10836.1	9665.3	6162.6	1756.8	1172.0	1220.4	1281.0	1299.1	1226.5	1060.6	1036.4
62.5°	10775.5	9482.5	5453.1	1214.4	1046.1	1132.0	1211.9	1207.1	1129.6	985.5	952.8
65°	10539.4	9034.5	4146.8	979.5	1003.7	1092.1	1180.5	1121.1	1046.1	912.9	895.9
67.5°	9968.0	8091.3	2325.8	904.4	990.4	1069.1	1126.0	1054.5	971.0	845.1	837.8
68°	9798.5	7814.1	1985.6	899.6	988.0	1061.8	1111.5	1037.6	956.5	834.2	829.4
70°	8810.5	6385.4	895.9	883.8	973.4	1035.2	1071.5	990.4	903.2	796.7	789.4
72.5°	6808.0	3954.3	601.7	840.2	937.1	995.2	1018.2	942.0	869.3	750.7	741.0
75°	4035.4	1087.2	570.3	765.2	875.4	956.5	980.7	904.4	818.5	681.6	665.9
77.5°	992.8	392.3	552.1	680.4	811.2	892.3	931.1	879.0	774.9	613.8	598.1
80°	301.5	312.4	525.5	588.4	730.1	796.7	819.7	819.7	716.8	432.2	455.2
82.5°	198.6	250.6	448.0	441.9	579.9	659.9	616.3	618.7	563.0	192.5	225.2
85°	124.7	204.6	302.7	289.4	369.3	404.4	438.3	450.4	395.9	55.7	3.6
87.5°	64.2	87.2	106.5	113.8	146.5	209.5	280.9	276.0	203.4	49.6	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)