

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-AP-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-AP-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33490.7 lumens
Efficiency: N/A
Efficacy: 154.3 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

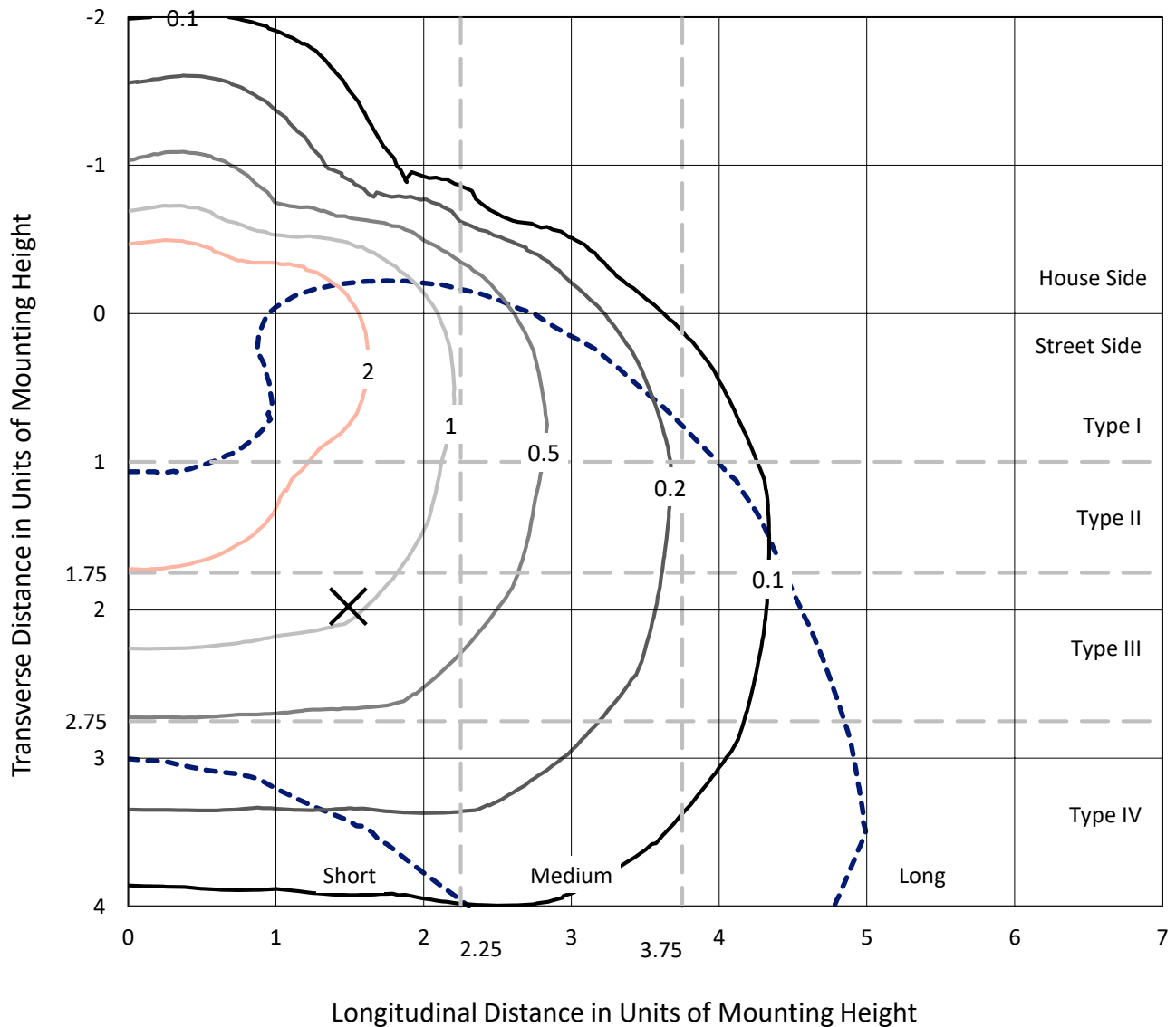
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

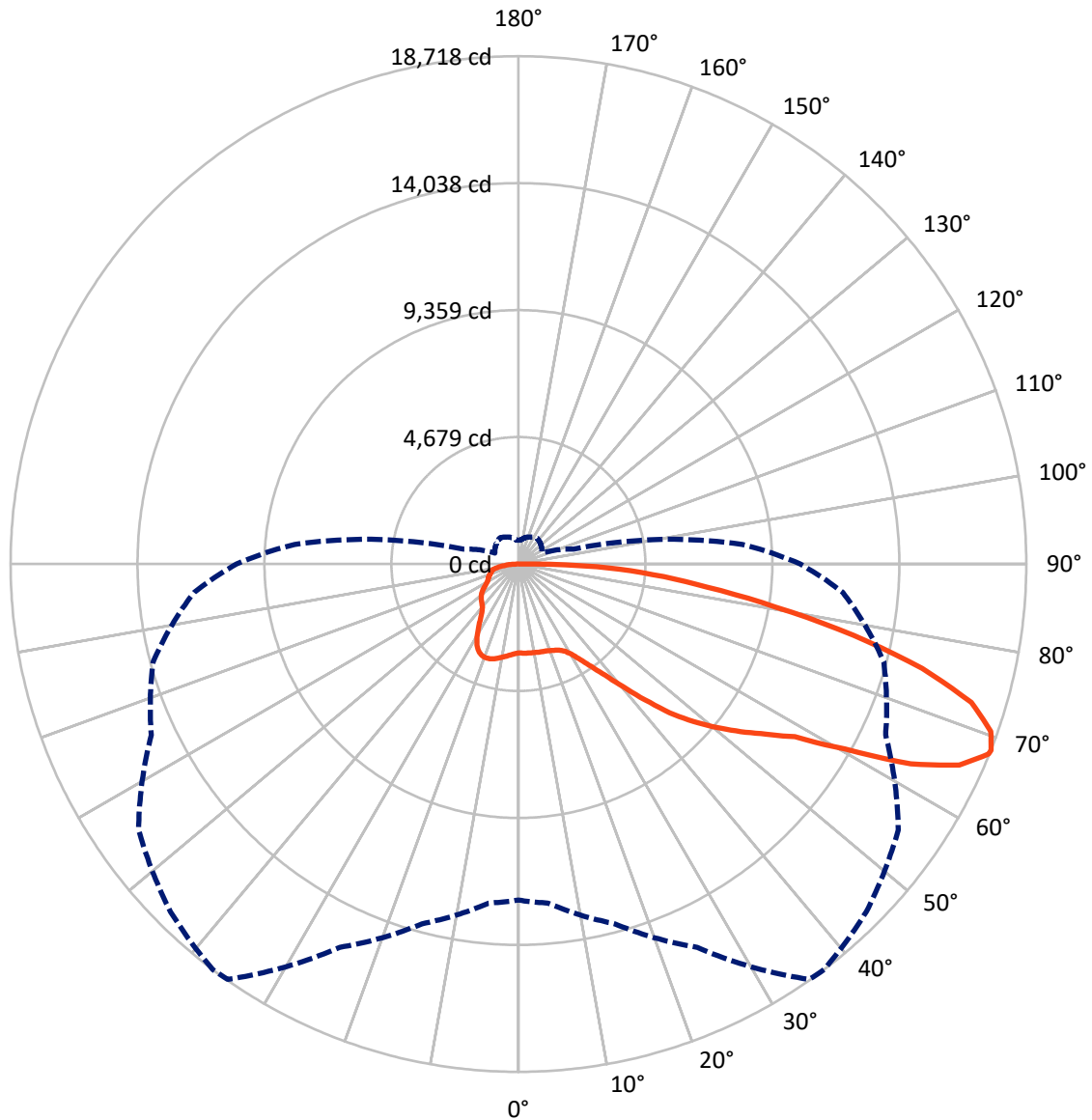


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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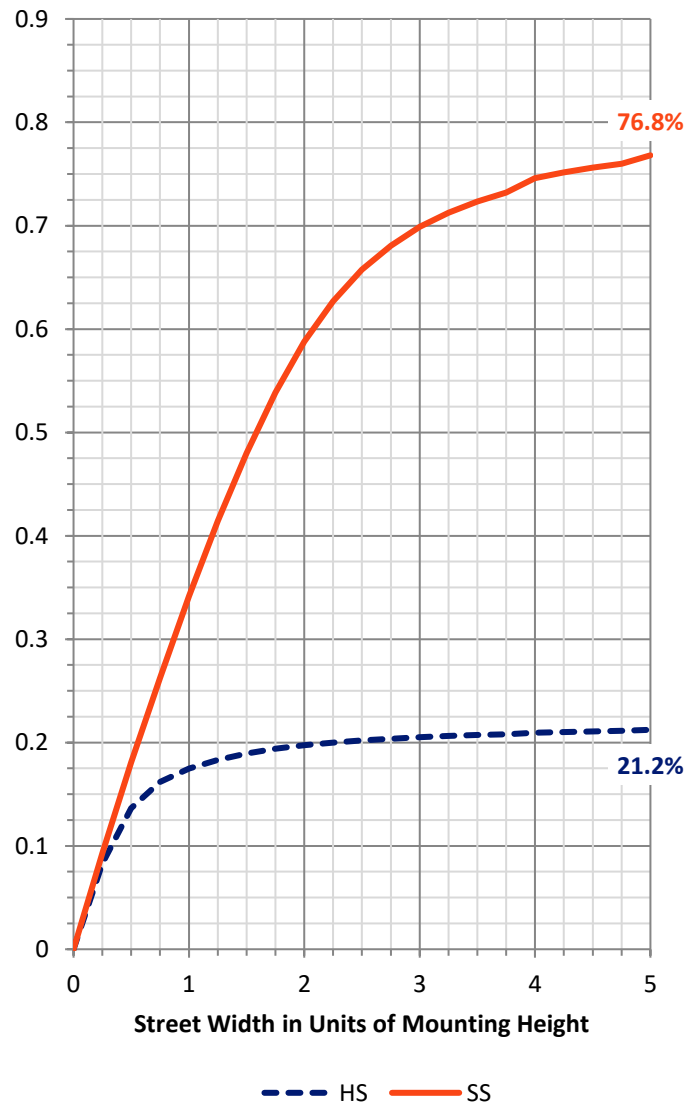
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7231.6	0.0	7231.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	26259.1	0.0	26259.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	33490.7	0.0	33490.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.0	0.9
10°-20°	988.5	3.0
20°-30°	1688.5	5.0
30°-40°	2690.0	8.0
40°-50°	4665.4	13.9
50°-60°	6762.7	20.2
60°-70°	8528.5	25.5
70°-80°	6319.6	18.9
80°-90°	1529.6	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°	33490.7	100.0
0°-180°	33490.7	100.0

Coefficient of Utilization



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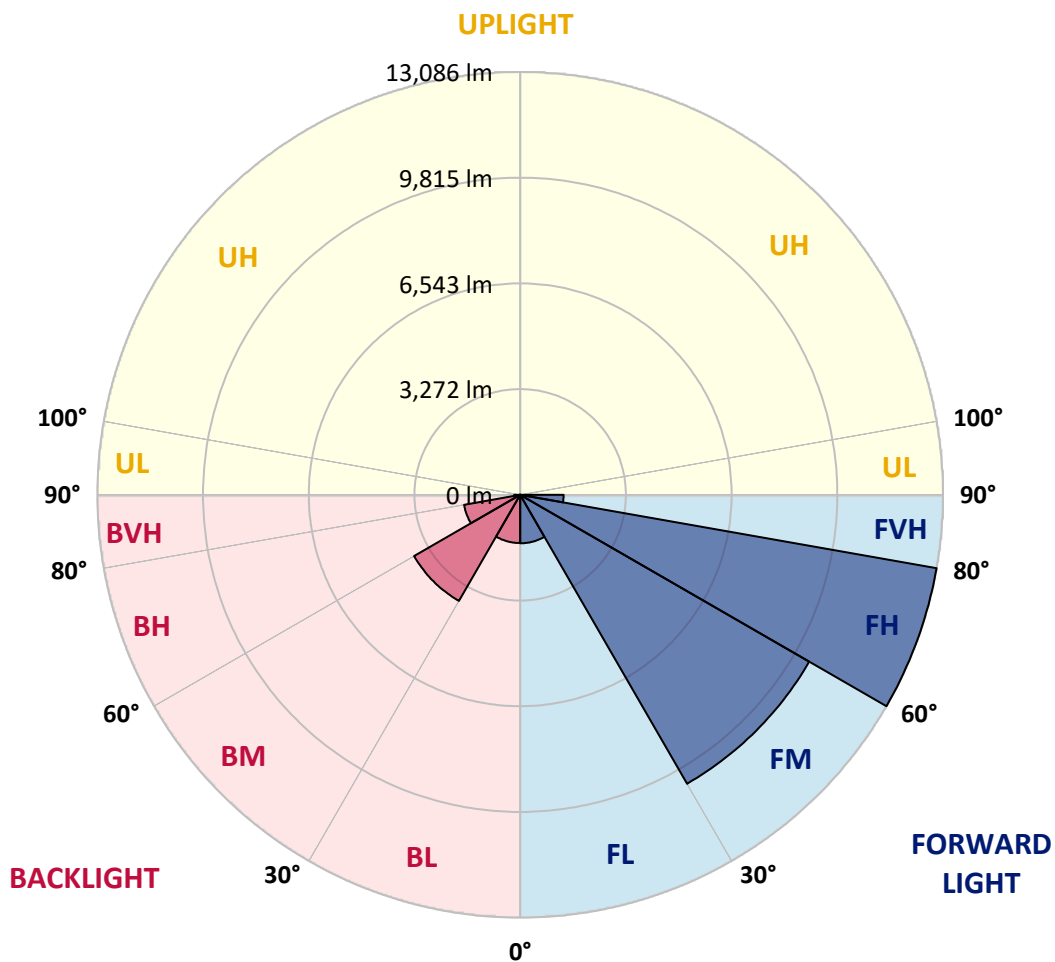
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1501.4	4.5			
FM	(30°-60°)	10327.1	30.8			
FH	(60°-80°)	13086.4	39.1			G5
FVH	(80°-90°)	1344.2	4.0			G5
BL	(0°-30°)	1493.6	4.5	B3/2500		
BM	(30°-60°)	3791.0	11.3	B3/5000		
BH	(60°-80°)	1761.6	5.3	B3/2500		G3/2500
BVH	(80°-90°)	185.4	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°	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3
2.5°	3273.6	3282.6	3285.2	3280.0	3285.2	3290.2	3278.7	3277.4	3272.3	3251.8	3254.3
5°	3274.9	3286.4	3287.7	3283.9	3292.8	3298.0	3292.8	3287.7	3282.6	3253.0	3259.5
7.5°	3274.9	3283.9	3286.4	3283.9	3296.7	3305.7	3305.7	3309.5	3309.5	3276.2	3281.2
10°	3263.3	3271.1	3274.9	3281.2	3303.1	3315.9	3323.6	3341.7	3351.8	3328.7	3330.1
12.5°	3210.8	3217.1	3229.9	3267.1	3318.5	3333.9	3355.7	3387.8	3413.5	3413.5	3416.1
15°	3169.6	3176.1	3200.5	3250.5	3328.7	3349.3	3391.7	3445.5	3493.0	3518.7	3539.2
17.5°	3179.9	3187.6	3223.6	3265.9	3344.2	3364.7	3425.0	3503.3	3581.6	3636.7	3677.9
20°	3212.0	3217.1	3258.2	3307.0	3390.4	3404.5	3463.5	3559.8	3668.8	3760.0	3826.7
22.5°	3303.1	3300.5	3333.9	3353.1	3439.2	3452.0	3519.9	3618.8	3760.0	3897.3	3994.8
25°	3378.9	3390.4	3417.3	3432.7	3503.3	3514.8	3599.5	3708.6	3871.6	4048.7	4205.3
27.5°	3462.3	3472.4	3499.5	3534.1	3632.9	3639.3	3698.3	3833.1	4014.1	4230.9	4481.2
30°	3650.8	3649.6	3676.6	3713.8	3847.2	3858.8	3913.9	4052.5	4220.6	4491.4	4793.0
32.5°	3976.9	3974.2	3978.1	4029.4	4174.4	4201.3	4271.9	4455.5	4665.9	4927.7	5262.6
35°	4645.4	4618.4	4567.1	4526.1	4608.1	4639.0	4793.0	5020.1	5396.1	5910.6	6325.2
37.5°	5750.3	5707.9	5534.7	5299.8	5204.9	5201.0	5308.8	5654.0	6239.2	7270.9	7645.7
40°	6809.0	6810.3	6575.4	6257.1	5960.8	5945.3	5883.7	6311.1	7151.6	8547.8	8723.6
42.5°	7812.4	7806.1	7532.7	7241.4	6887.2	6841.0	6661.4	6989.9	8062.7	9598.8	9633.4
45°	8717.1	8696.6	8402.8	8215.4	7911.3	7818.9	7580.2	7684.2	8916.1	10441.8	10319.9
47.5°	9591.0	9570.6	9203.5	9022.6	8755.6	8678.7	8425.9	8472.1	9732.2	11143.8	10875.6
50°	10493.2	10486.8	9955.5	9779.7	9496.1	9464.1	9311.3	9344.7	10584.3	11727.7	11392.8
52.5°	11562.1	11396.6	10799.9	10463.7	10262.2	10260.9	10090.2	10176.2	11526.2	12248.7	11752.1
55°	12709.4	12500.2	11889.4	11405.6	11059.1	11064.2	10798.6	10937.2	12353.9	12714.6	12096.0
57.5°	13528.1	13484.5	13302.3	12818.4	12102.4	12017.7	11609.6	11718.7	13080.2	13197.0	12343.7
60°	14291.6	14477.7	14599.6	14445.6	14085.0	13840.0	12708.1	12545.1	13720.6	13621.7	12473.2
62.5°	14772.9	14869.1	15437.5	15649.3	16215.2	16234.5	14880.7	13546.1	14265.9	13888.7	12531.0
65°	14242.8	14385.3	15327.2	16154.9	17769.2	17861.6	17290.6	15215.6	14701.0	13981.0	12421.9
67.5°	12764.6	12913.4	14045.3	15743.0	18629.0	18692.0	18099.1	16948.0	14917.9	13961.9	12102.4
68°	12386.0	12545.1	13725.7	15587.7	18688.1	18717.6	18131.2	17091.7	14932.0	13940.0	11998.5
70°	10819.1	10975.7	12171.7	14616.3	18454.6	18473.7	17928.4	17243.1	14858.8	13752.6	11314.4
72.5°	8499.0	8656.8	9600.0	12398.8	17281.7	17449.8	17171.2	16811.9	14549.6	13022.5	9701.4
75°	6022.4	6184.0	7165.7	9704.0	14898.6	15365.7	15921.4	15985.5	13392.0	11183.5	7227.4
77.5°	4246.3	4378.4	5228.0	7254.3	12024.1	12628.5	13786.0	13881.0	11215.6	8533.7	3812.6
80°	2756.5	2869.4	3630.4	5316.6	9089.3	9611.6	10883.3	10490.7	7970.3	4640.2	663.4
82.5°	1664.4	1749.0	2312.4	3677.9	6651.1	6998.8	7517.3	6298.2	3698.3	655.8	232.2
85°	954.8	1012.5	1428.2	2362.5	4686.5	4982.9	5054.8	3161.9	695.5	180.9	130.9
87.5°	488.9	518.4	766.1	1451.3	2769.3	2896.3	2535.7	1131.9	138.6	80.9	65.4
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°	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3	3272.3
2.5°	3241.5	3250.5	3256.9	3278.7	3301.8	3313.4	3301.8	3319.8	3326.2	3321.1	3313.4
5°	3249.2	3263.3	3273.6	3317.2	3342.9	3362.1	3349.3	3374.9	3383.9	3373.7	3373.7
7.5°	3271.1	3290.2	3307.0	3364.7	3394.2	3419.9	3412.1	3430.2	3437.9	3425.0	3432.7
10°	3328.7	3348.0	3369.8	3441.7	3460.9	3485.4	3471.2	3485.4	3487.9	3478.9	3485.4
12.5°	3428.9	3441.7	3484.0	3557.2	3559.8	3566.1	3536.7	3509.8	3498.2	3481.5	3493.0
15°	3557.2	3580.2	3638.0	3699.6	3682.9	3668.8	3595.7	3508.4	3453.3	3412.1	3409.6
17.5°	3699.6	3740.7	3812.6	3852.3	3813.8	3749.7	3626.4	3478.9	3345.5	3272.3	3249.2
20°	3846.0	3910.1	3989.7	3997.3	3931.9	3808.8	3621.4	3403.2	3182.5	3046.5	3013.1
22.5°	4024.3	4107.7	4179.6	4141.0	4010.1	3829.2	3573.9	3269.8	2966.9	2760.3	2729.5
25°	4260.4	4342.5	4355.3	4242.5	4039.7	3790.7	3464.8	3070.8	2687.2	2430.5	2406.1
27.5°	4545.3	4588.9	4505.5	4295.0	4003.8	3675.2	3278.7	2795.0	2375.3	2152.0	2114.8
30°	4861.0	4845.5	4615.9	4296.3	3898.5	3478.9	2996.4	2481.9	2128.9	1936.4	1900.5
32.5°	5261.3	5160.0	4727.5	4238.6	3725.3	3214.6	2664.1	2231.6	1959.5	1763.1	1728.6
35°	6057.0	5749.0	4878.9	4147.5	3495.6	2897.6	2372.7	2050.7	1814.5	1588.7	1556.6
37.5°	7267.1	6629.4	5152.3	4047.4	3240.2	2572.9	2149.5	1909.5	1700.3	1459.1	1409.0
40°	8328.4	7602.0	5588.5	3953.7	2979.7	2326.6	2021.1	1841.5	1637.4	1393.7	1342.3
42.5°	9143.2	8380.9	6087.7	3842.0	2707.6	2144.3	1967.3	1832.5	1629.7	1393.7	1346.2
45°	9801.5	9023.9	6531.7	3720.1	2444.6	2000.6	1918.4	1815.8	1614.3	1385.9	1341.0
47.5°	10321.2	9503.8	6882.1	3580.2	2171.3	1903.1	1868.4	1758.1	1574.6	1362.8	1317.9
50°	10771.7	9847.7	7078.4	3416.1	1928.7	1826.1	1797.8	1665.6	1495.0	1294.8	1265.3
52.5°	11086.0	10127.5	7152.8	3348.0	1755.5	1738.8	1701.6	1571.9	1409.0	1214.0	1180.6
55°	11322.2	10271.2	7091.3	3192.7	1582.2	1604.1	1587.4	1500.1	1348.7	1163.9	1130.6
57.5°	11442.8	10318.7	6915.4	2607.6	1418.0	1443.7	1455.2	1460.3	1339.7	1178.1	1147.2
60°	11485.2	10244.3	6531.7	1862.0	1242.2	1293.5	1357.7	1376.9	1300.0	1124.1	1098.5
62.5°	11421.0	10050.5	5779.7	1287.1	1108.8	1199.8	1284.5	1279.4	1197.3	1044.5	1009.9
65°	11170.7	9575.7	4395.2	1038.2	1063.8	1157.5	1251.2	1188.3	1108.8	967.6	949.6
67.5°	10565.1	8576.0	2465.1	958.6	1049.7	1133.1	1193.4	1117.7	1029.2	895.7	888.0
68°	10385.4	8282.2	2104.5	953.5	1047.2	1125.4	1178.1	1099.8	1013.8	884.2	879.1
70°	9338.2	6767.9	949.6	936.7	1031.7	1097.2	1135.7	1049.7	957.3	844.4	836.7
72.5°	7215.8	4191.2	637.7	890.5	993.2	1054.8	1079.2	998.4	921.4	795.7	785.4
75°	4277.1	1152.3	604.5	811.0	927.8	1013.8	1039.4	958.6	867.5	722.4	705.8
77.5°	1052.3	415.8	585.2	721.2	859.8	945.7	986.9	931.7	821.3	650.6	633.9
80°	319.6	331.1	557.0	623.6	773.8	844.4	868.8	868.8	759.7	458.1	482.5
82.5°	210.5	265.6	474.8	468.4	614.6	699.4	653.2	655.8	596.7	204.0	238.7
85°	132.2	216.9	320.8	306.7	391.4	428.6	464.6	477.4	419.6	59.0	3.8
87.5°	68.0	92.4	112.9	120.6	155.3	222.0	297.7	292.5	215.6	52.6	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)