

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: P285831

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285831
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
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31035 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): 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

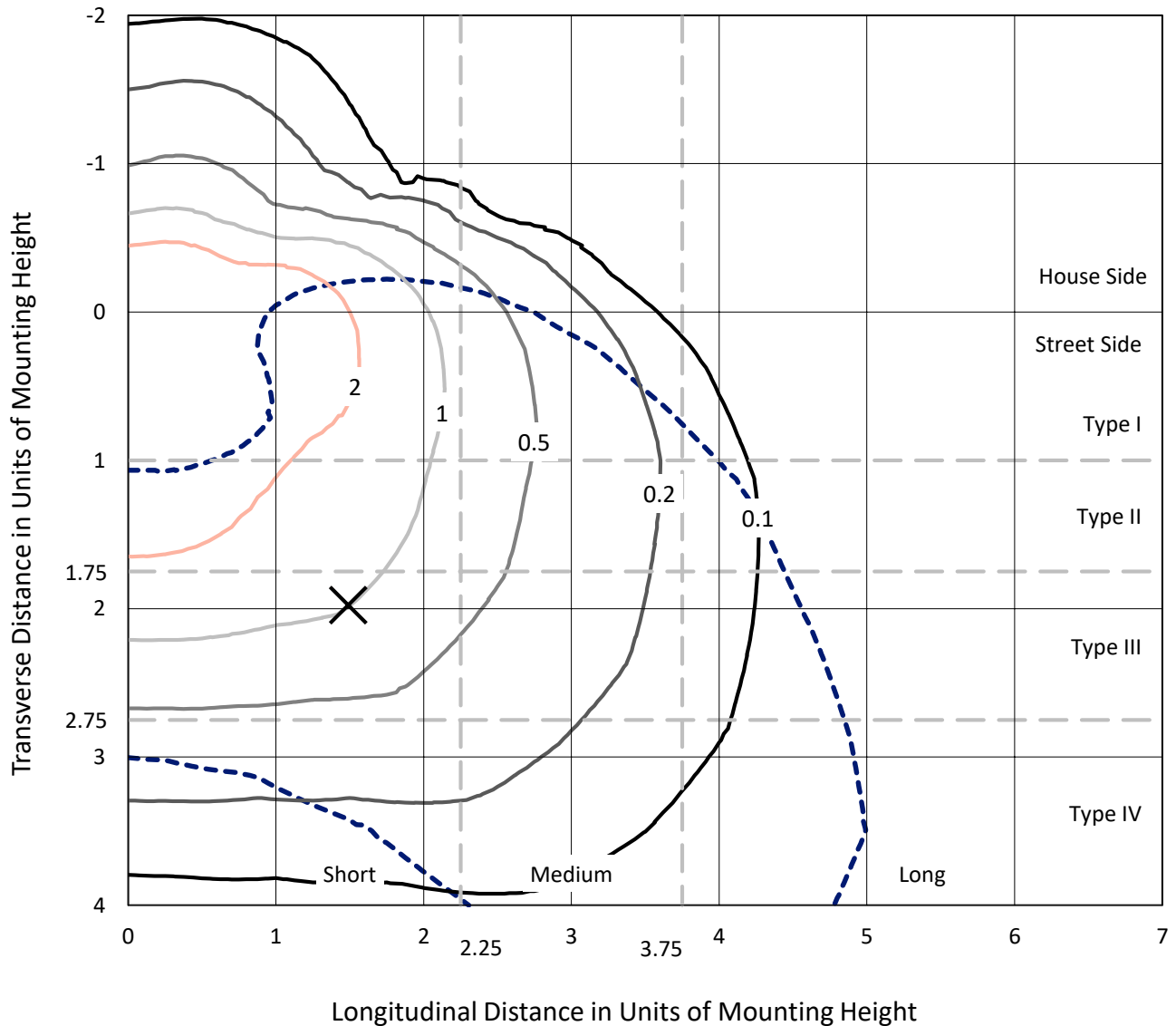


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

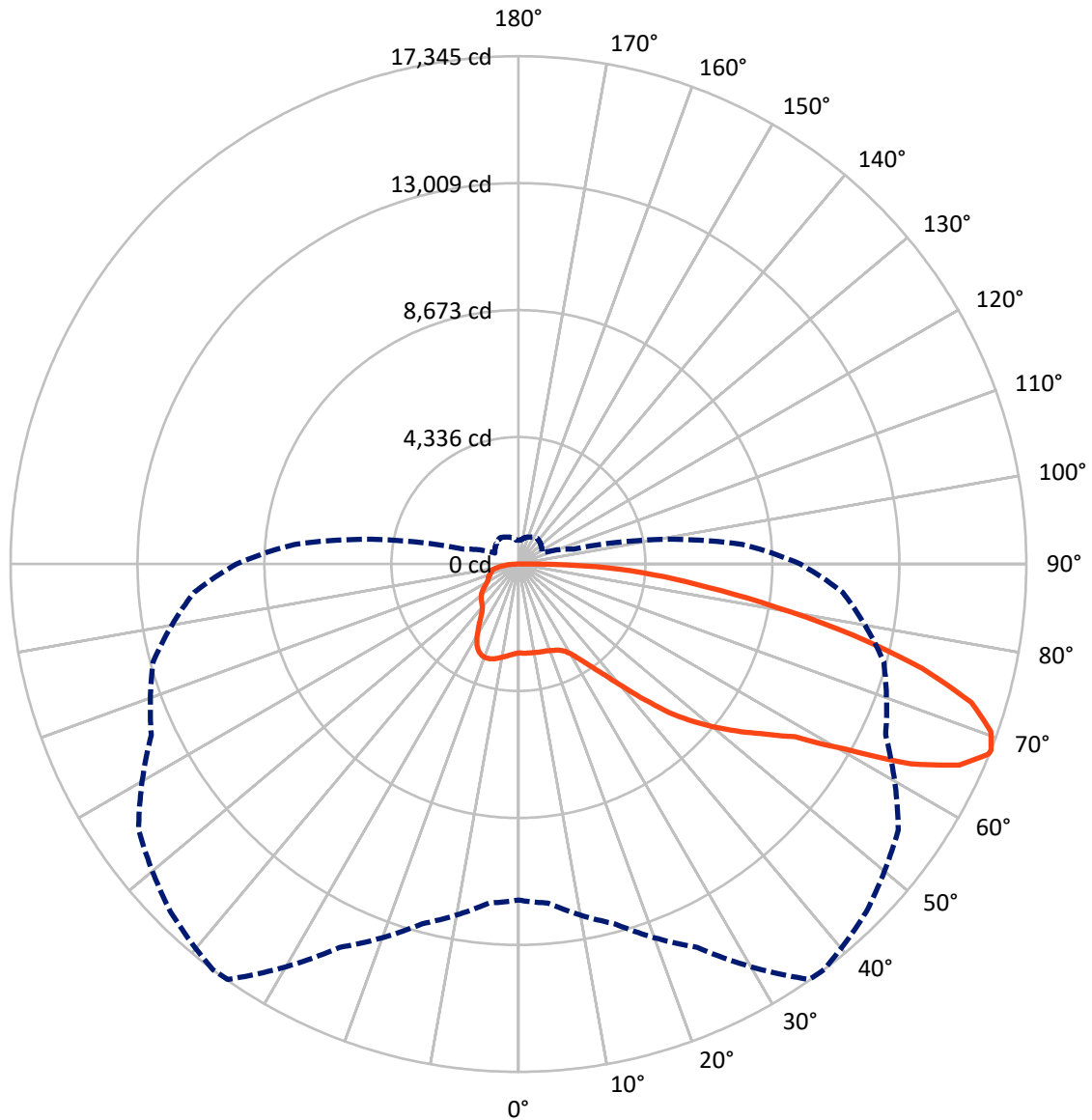


Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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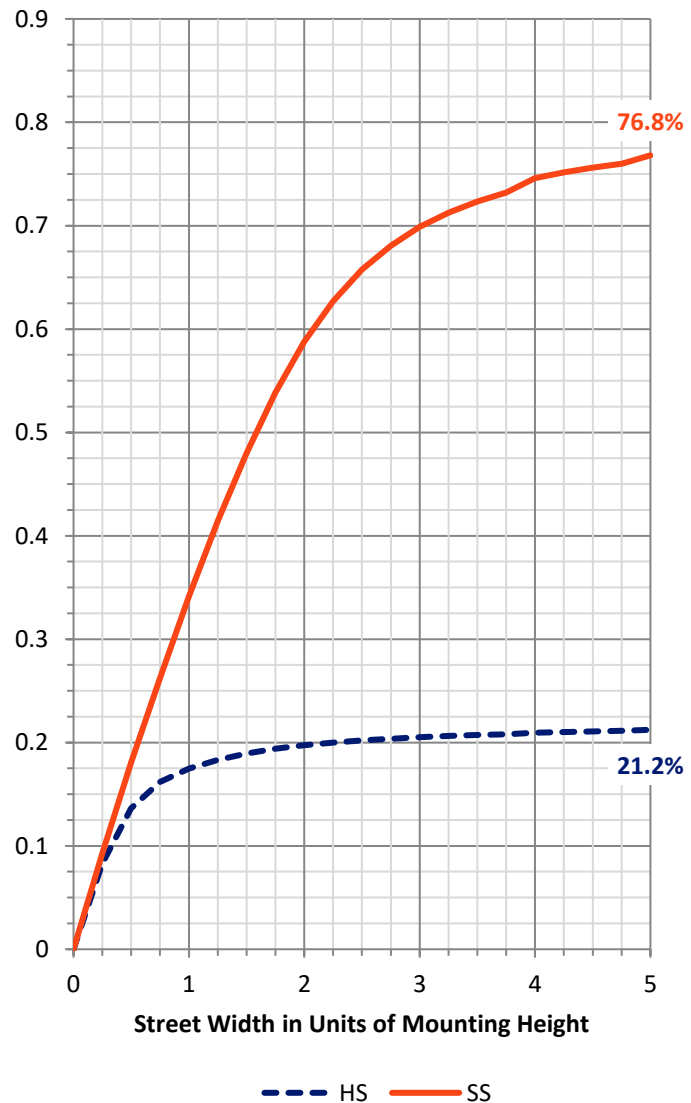
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6701.4	0.0	6701.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24333.6	0.0	24333.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	31035.0	0.0	31035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.7	0.9
10°-20°	916.0	3.0
20°-30°	1564.6	5.0
30°-40°	2492.7	8.0
40°-50°	4323.3	13.9
50°-60°	6266.8	20.2
60°-70°	7903.1	25.5
70°-80°	5856.2	18.9
80°-90°	1417.5	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°	31035.0	100.0
0°-180°	31035.0	100.0

Coefficient of Utilization



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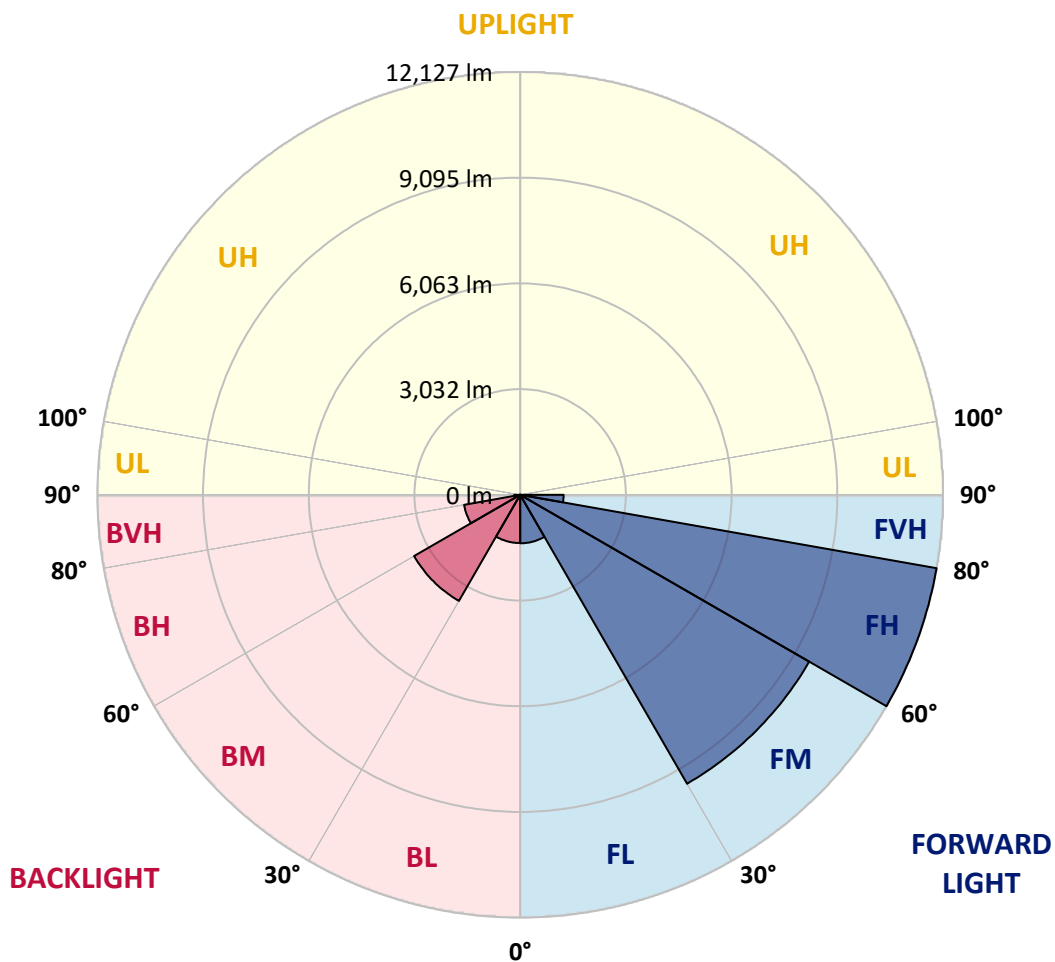
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1391.3	4.5			
FM	(30°-60°)	9569.8	30.8			
FH	(60°-80°)	12126.9	39.1			G5
FVH	(80°-90°)	1245.6	4.0			G5
BL	(0°-30°)	1384.1	4.5	B3/2500		
BM	(30°-60°)	3513.0	11.3	B3/5000		
BH	(60°-80°)	1632.5	5.3	B3/2500		G3/2500
BVH	(80°-90°)	171.8	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°	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4
2.5°	3033.6	3041.9	3044.3	3039.5	3044.3	3049.0	3038.3	3037.1	3032.4	3013.3	3015.7
5°	3034.7	3045.4	3046.6	3043.1	3051.4	3056.1	3051.4	3046.6	3041.9	3014.5	3020.5
7.5°	3034.7	3043.1	3045.4	3043.1	3055.0	3063.3	3063.3	3066.8	3066.8	3035.9	3040.7
10°	3024.0	3031.2	3034.7	3040.7	3060.9	3072.8	3079.9	3096.6	3106.1	3084.7	3085.9
12.5°	2975.3	2981.2	2993.1	3027.6	3075.2	3089.4	3109.7	3139.4	3163.2	3163.2	3165.5
15°	2937.2	2943.2	2965.8	3012.1	3084.7	3103.7	3143.0	3192.9	3236.9	3260.7	3279.7
17.5°	2946.7	2953.9	2987.2	3026.4	3099.0	3118.0	3173.9	3246.4	3319.0	3370.1	3408.1
20°	2976.5	2981.2	3019.3	3064.5	3141.8	3154.8	3209.5	3298.7	3399.8	3484.2	3546.1
22.5°	3060.9	3058.5	3089.4	3107.3	3187.0	3198.8	3261.9	3353.4	3484.2	3611.5	3701.9
25°	3131.1	3141.8	3166.7	3181.0	3246.4	3257.1	3335.6	3436.7	3587.7	3751.8	3896.9
27.5°	3208.4	3217.9	3242.8	3275.0	3366.5	3372.5	3427.2	3552.0	3719.7	3920.7	4152.6
30°	3383.2	3382.0	3406.9	3441.4	3565.1	3575.8	3626.9	3755.4	3911.2	4162.1	4441.5
32.5°	3685.2	3682.8	3686.4	3734.0	3868.3	3893.3	3958.7	4128.8	4323.8	4566.4	4876.8
35°	4304.8	4279.8	4232.2	4194.2	4270.3	4298.8	4441.5	4652.0	5000.4	5477.3	5861.4
37.5°	5328.6	5289.4	5128.9	4911.2	4823.2	4819.7	4919.6	5239.4	5781.7	6737.8	7085.0
40°	6309.7	6310.9	6093.3	5798.4	5523.7	5509.4	5452.3	5848.3	6627.2	7921.0	8083.9
42.5°	7239.6	7233.7	6980.4	6710.4	6382.2	6339.4	6172.9	6477.4	7471.5	8894.9	8927.0
45°	8078.0	8058.9	7786.6	7613.0	7331.2	7245.6	7024.4	7120.7	8262.3	9676.2	9563.2
47.5°	8887.8	8868.8	8528.7	8361.0	8113.7	8042.3	7808.0	7850.8	9018.6	10326.7	10078.1
50°	9723.8	9717.8	9225.5	9062.6	8799.8	8770.1	8628.6	8659.5	9808.2	10867.7	10557.4
52.5°	10714.3	10560.9	10008.0	9696.4	9509.7	9508.5	9350.4	9430.1	10681.1	11350.5	10890.3
55°	11777.5	11583.6	11017.6	10569.3	10248.2	10253.0	10006.8	10135.2	11448.1	11782.2	11209.0
57.5°	12536.1	12495.7	12326.9	11878.5	11215.0	11136.5	10758.3	10859.4	12121.1	12229.3	11438.5
60°	13243.7	13416.1	13529.1	13386.4	13052.2	12825.1	11776.3	11625.2	12714.5	12623.0	11558.7
62.5°	13689.6	13778.8	14305.6	14501.8	15026.2	15044.1	13789.5	12552.8	13219.9	12870.3	11612.2
65°	13198.5	13330.5	14203.3	14970.4	16466.3	16551.9	16022.8	14099.9	13623.0	12955.9	11511.1
67.5°	11828.6	11966.5	13015.4	14588.6	17263.1	17321.3	16771.9	15705.3	13824.0	12938.1	11215.0
68°	11477.8	11625.2	12719.3	14444.7	17317.8	17345.1	16801.7	15838.4	13837.1	12917.9	11118.7
70°	10025.8	10170.9	11279.2	13544.6	17101.3	17119.2	16613.8	15978.8	13769.3	12744.2	10484.8
72.5°	7875.8	8022.1	8896.1	11489.7	16014.4	16170.2	15912.2	15579.2	13482.7	12067.6	8990.1
75°	5580.7	5730.6	6640.3	8992.4	13806.2	14239.0	14753.9	14813.4	12410.1	10363.5	6697.4
77.5°	3934.9	4057.4	4844.6	6722.3	11142.4	11702.5	12775.2	12863.2	10393.3	7907.9	3533.0
80°	2554.3	2659.0	3364.1	4926.7	8422.8	8906.8	10085.3	9721.4	7385.9	4300.0	614.8
82.5°	1542.3	1620.8	2142.9	3408.1	6163.4	6485.7	6966.1	5836.4	3427.2	607.7	215.2
85°	884.7	938.2	1323.5	2189.2	4342.8	4617.5	4684.1	2930.1	644.5	167.7	121.3
87.5°	453.1	480.4	709.9	1344.9	2566.2	2683.9	2349.8	1048.8	128.4	74.9	60.6
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°	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4
2.5°	3003.8	3012.1	3018.1	3038.3	3059.7	3070.4	3059.7	3076.4	3082.3	3077.6	3070.4
5°	3011.0	3024.0	3033.6	3074.0	3097.8	3115.6	3103.7	3127.5	3135.8	3126.3	3126.3
7.5°	3031.2	3049.0	3064.5	3118.0	3145.3	3169.1	3162.0	3178.6	3185.8	3173.9	3181.0
10°	3084.7	3102.5	3122.7	3189.3	3207.2	3229.8	3216.7	3229.8	3232.1	3223.8	3229.8
12.5°	3177.4	3189.3	3228.6	3296.4	3298.7	3304.7	3277.3	3252.4	3241.7	3226.2	3236.9
15°	3296.4	3317.8	3371.3	3428.4	3412.9	3399.8	3332.0	3251.2	3200.0	3162.0	3159.6
17.5°	3428.4	3466.4	3533.0	3569.9	3534.2	3474.7	3360.6	3223.8	3100.1	3032.4	3011.0
20°	3563.9	3623.4	3697.1	3704.2	3643.6	3529.4	3355.8	3153.7	2949.1	2823.1	2792.2
22.5°	3729.2	3806.5	3873.1	3837.4	3716.1	3548.5	3311.8	3030.0	2749.3	2557.9	2529.3
25°	3948.0	4024.1	4036.0	3931.4	3743.5	3512.8	3210.7	2845.7	2490.1	2252.3	2229.7
27.5°	4212.0	4252.4	4175.1	3980.1	3710.2	3405.8	3038.3	2590.0	2201.1	1994.2	1959.7
30°	4504.5	4490.3	4277.4	3981.3	3612.7	3223.8	2776.7	2299.8	1972.8	1794.4	1761.1
32.5°	4875.6	4781.6	4380.9	3927.8	3452.1	2978.9	2468.7	2068.0	1815.8	1633.9	1601.8
35°	5612.8	5327.4	4521.2	3843.4	3239.3	2685.1	2198.8	1900.3	1681.5	1472.2	1442.5
37.5°	6734.2	6143.2	4774.5	3750.6	3002.6	2384.3	1991.8	1769.5	1575.6	1352.1	1305.7
40°	7717.7	7044.6	5178.8	3663.8	2761.2	2156.0	1872.9	1706.4	1517.4	1291.4	1243.9
42.5°	8472.8	7766.4	5641.4	3560.4	2509.1	1987.1	1823.0	1698.1	1510.2	1291.4	1247.4
45°	9082.8	8362.2	6052.8	3447.4	2265.4	1853.9	1777.8	1682.7	1496.0	1284.3	1242.7
47.5°	9564.4	8806.9	6377.5	3317.8	2012.1	1763.5	1731.4	1629.2	1459.1	1262.9	1221.3
50°	9981.8	9125.6	6559.4	3165.5	1787.3	1692.2	1666.0	1543.5	1385.4	1199.9	1172.5
52.5°	10273.2	9384.9	6628.4	3102.5	1626.8	1611.3	1576.8	1456.7	1305.7	1124.9	1094.0
55°	10492.0	9518.1	6571.3	2958.6	1466.2	1486.5	1471.0	1390.1	1249.8	1078.6	1047.7
57.5°	10603.8	9562.0	6408.4	2416.4	1314.0	1337.8	1348.5	1353.3	1241.5	1091.7	1063.1
60°	10643.0	9493.1	6052.8	1725.5	1151.1	1198.7	1258.1	1276.0	1204.6	1041.7	1017.9
62.5°	10583.5	9313.5	5356.0	1192.7	1027.4	1111.9	1190.4	1185.6	1109.5	968.0	935.9
65°	10351.7	8873.5	4072.9	962.0	985.8	1072.6	1159.4	1101.2	1027.4	896.6	880.0
67.5°	9790.4	7947.2	2284.4	888.3	972.7	1050.0	1105.9	1035.8	953.7	830.0	822.9
68°	9623.9	7674.8	1950.2	883.5	970.4	1042.9	1091.7	1019.1	939.4	819.3	814.6
70°	8653.5	6271.6	880.0	868.1	956.1	1016.7	1052.4	972.7	887.1	782.5	775.3
72.5°	6686.7	3883.8	591.0	825.3	920.4	977.5	1000.1	925.2	853.8	737.3	727.8
75°	3963.5	1067.9	560.1	751.6	859.8	939.4	963.2	888.3	803.9	669.5	654.0
77.5°	975.1	385.3	542.3	668.3	796.7	876.4	914.5	863.3	761.1	602.9	587.4
80°	296.1	306.8	516.1	577.9	717.1	782.5	805.1	805.1	704.0	424.5	447.1
82.5°	195.0	246.2	440.0	434.0	569.6	648.1	605.3	607.7	553.0	189.1	221.2
85°	122.5	201.0	297.3	284.2	362.7	397.2	430.5	442.4	388.9	54.7	3.6
87.5°	63.0	85.6	104.6	111.8	143.9	205.7	275.9	271.1	199.8	48.8	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)