

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: P285799

Luminaire Tested: **USSL-XL-C06-D-U-T3-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285799
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-C06-D-U-T3-AP-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52456.6 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

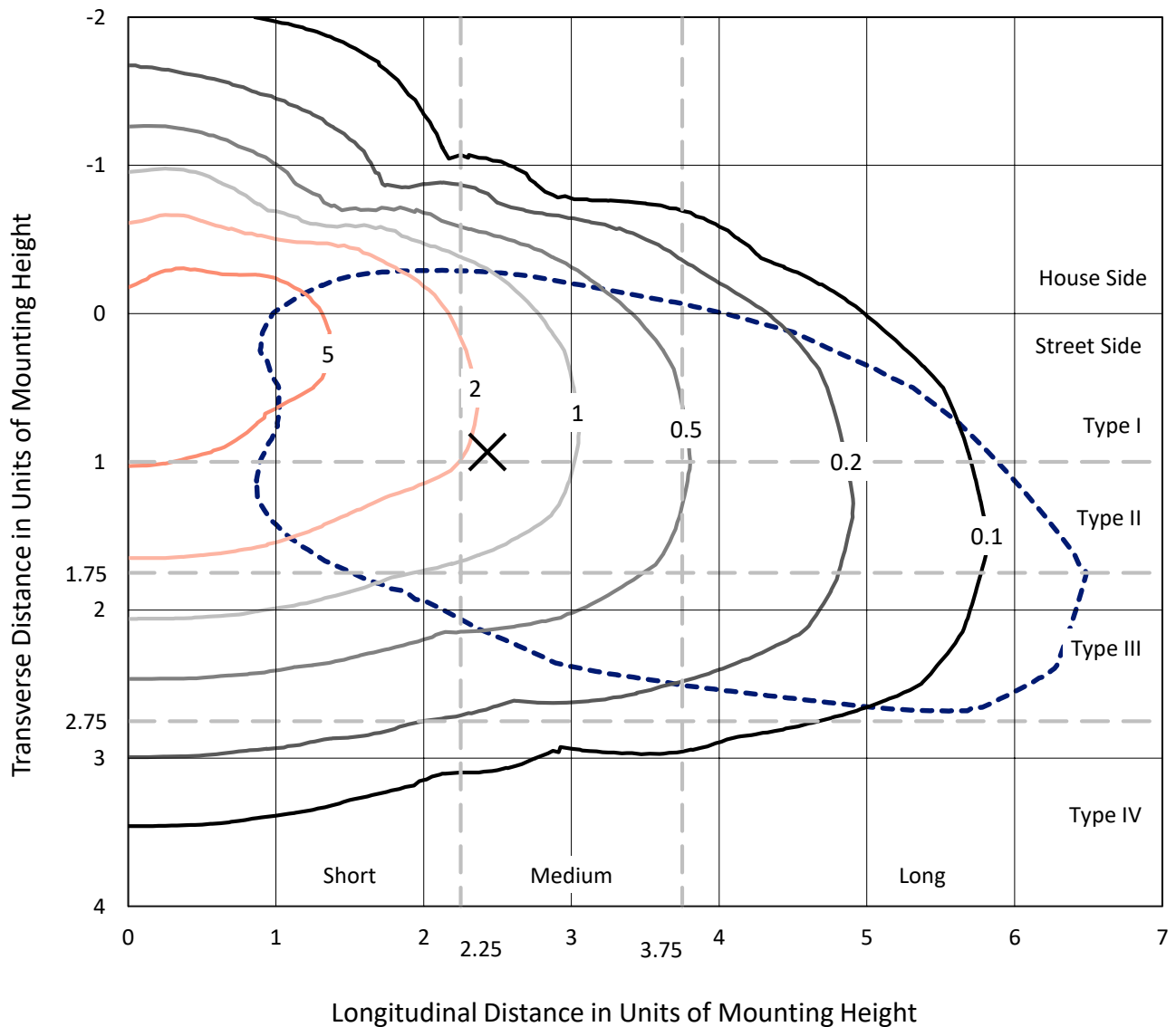
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

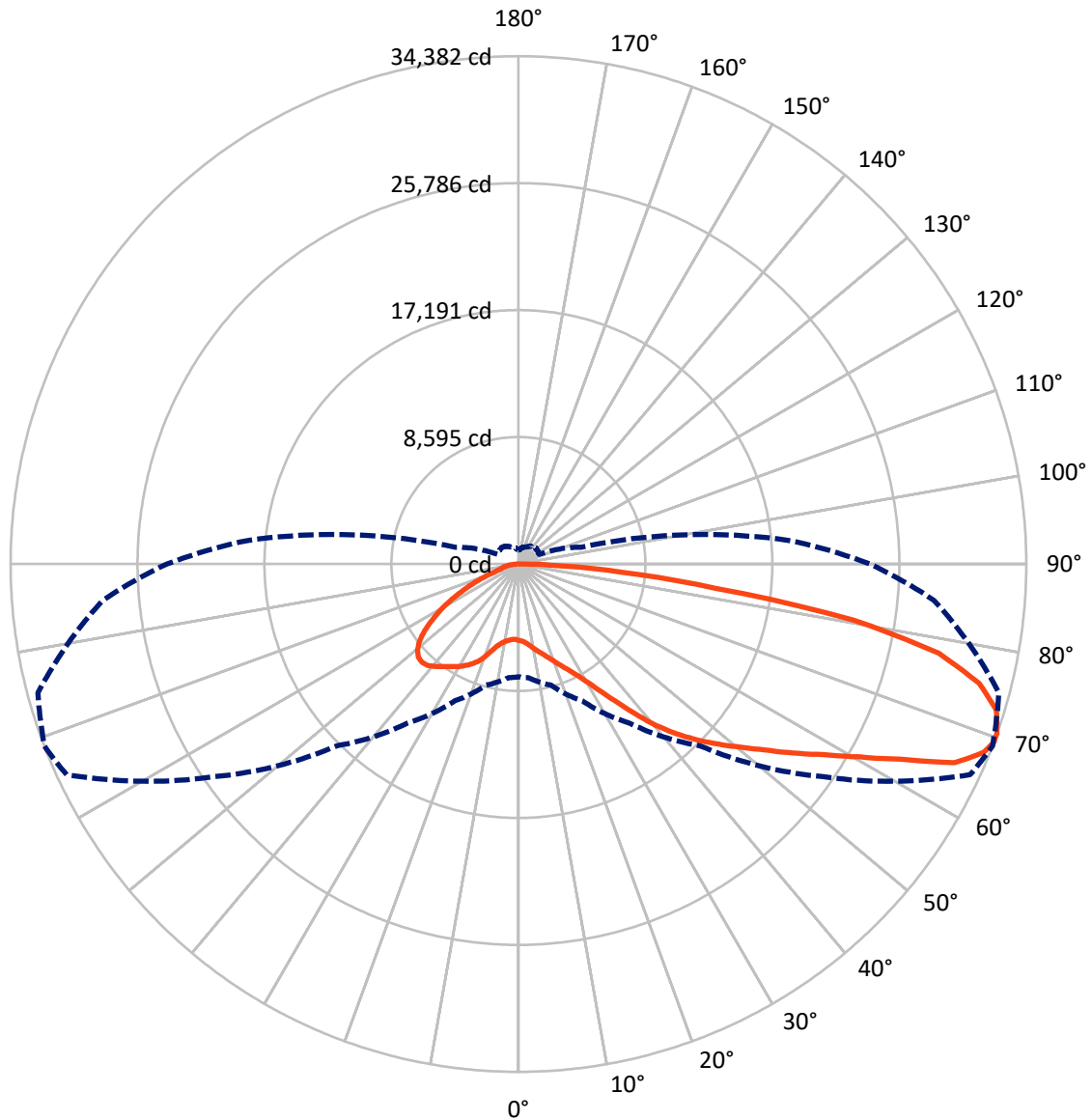
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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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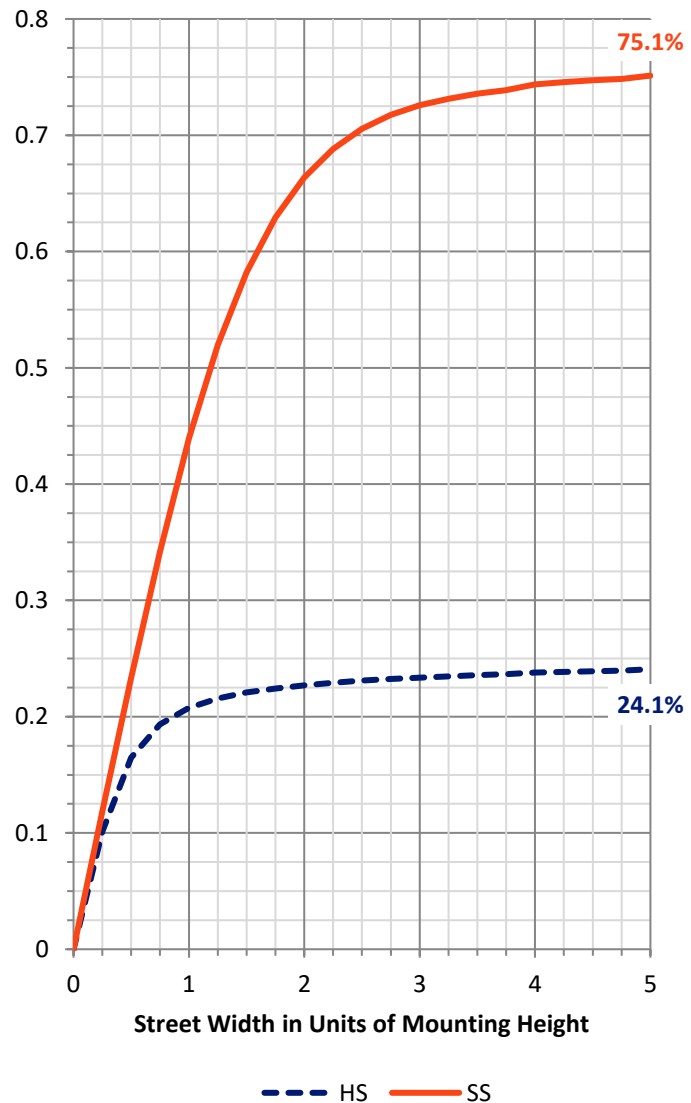
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12896.6	0.0	12896.6
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	39559.9	0.0	39559.9
	% Fixture	75.4	0.0	75.4
Total	Lumens	52456.6	0.0	52456.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.8	1.0
10°-20°	1661.4	3.2
20°-30°	3111.7	5.9
30°-40°	5287.1	10.1
40°-50°	8113.4	15.5
50°-60°	10600.5	20.2
60°-70°	12070.7	23.0
70°-80°	9113.1	17.4
80°-90°	1988.8	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°	52456.6	100.0
0°-180°	52456.6	100.0



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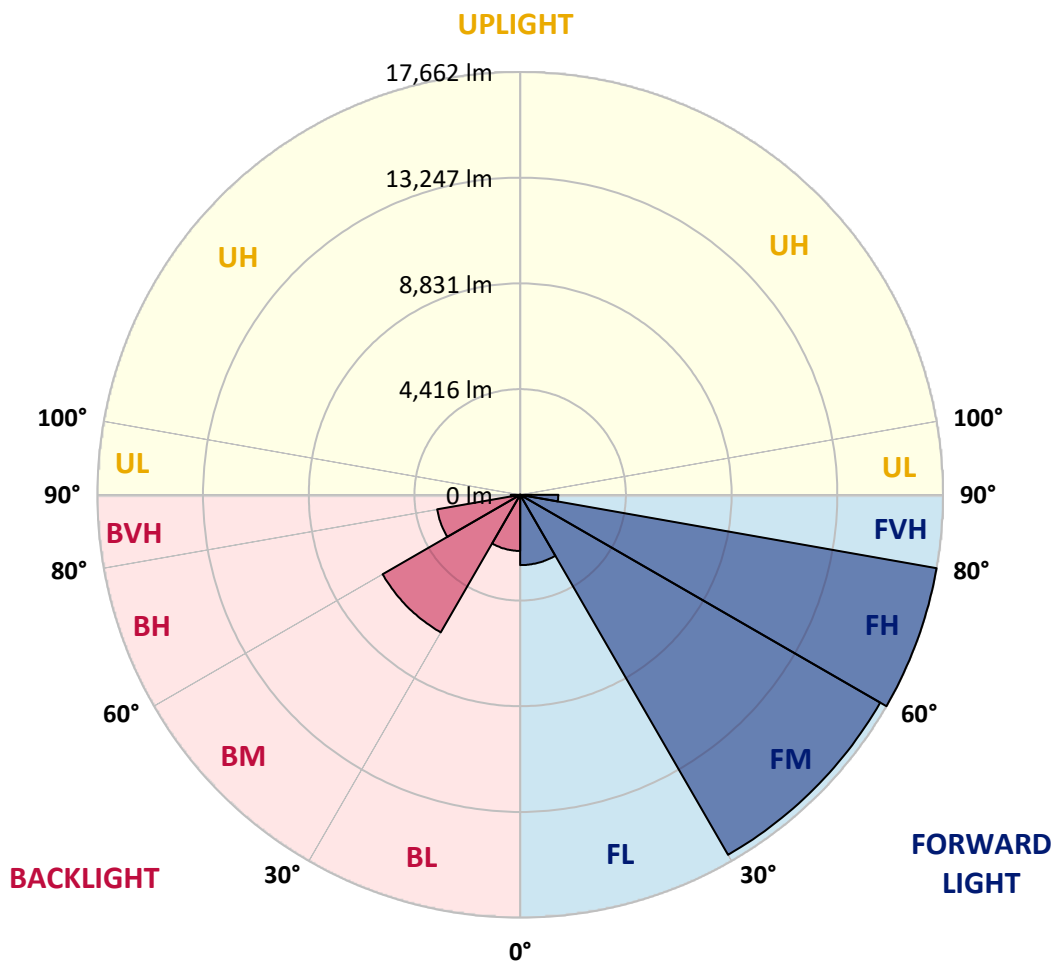
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2938.0	5.6			
FM	(30°-60°)	17365.2	33.1			
FH	(60°-80°)	17662.3	33.7			G5
FVH	(80°-90°)	1594.5	3.0			G5
BL	(0°-30°)	2345.0	4.5	B3/2500		
BM	(30°-60°)	6635.9	12.7	B4/8500		
BH	(60°-80°)	3521.4	6.7	B4/5000		G4/5000
BVH	(80°-90°)	394.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3
2.5°	5372.1	5388.2	5386.2	5378.1	5374.1	5352.1	5324.0	5287.7	5227.5	5199.4	5163.3
5°	5601.0	5613.1	5615.1	5601.0	5585.0	5550.9	5492.6	5436.4	5370.1	5329.9	5259.6
7.5°	5795.9	5805.9	5824.0	5812.0	5803.9	5775.8	5719.5	5653.3	5566.9	5510.7	5412.3
10°	5952.5	5960.6	5974.7	5994.7	6032.8	6008.8	5942.4	5896.3	5818.0	5731.6	5609.1
12.5°	6065.0	6058.9	6099.1	6135.2	6213.6	6239.7	6193.5	6159.4	6083.1	5994.7	5850.1
15°	6117.2	6115.2	6185.5	6275.9	6392.4	6434.5	6434.5	6396.4	6354.2	6285.9	6133.2
17.5°	6229.7	6237.7	6283.9	6400.4	6524.9	6623.3	6717.6	6721.7	6689.6	6643.3	6484.7
20°	6402.3	6416.4	6440.6	6532.9	6671.4	6844.2	7020.9	7085.2	7069.1	7051.1	6926.6
22.5°	6619.3	6625.3	6619.3	6699.6	6884.4	7117.3	7372.3	7478.8	7488.8	7490.8	7428.6
25°	6966.7	6940.5	6874.3	6946.6	7161.5	7430.6	7741.9	7918.6	7964.8	8007.0	8155.6
27.5°	7601.3	7541.1	7416.5	7392.5	7515.0	7810.2	8195.8	8491.0	8557.2	8673.7	9069.4
30°	8625.6	8545.2	8428.7	8073.3	8025.0	8278.1	8768.1	9189.9	9322.5	9675.8	10131.8
32.5°	9663.9	9611.6	9481.0	9139.6	8778.2	8872.5	9354.6	10013.3	10298.4	11013.4	11435.2
35°	10555.4	10529.4	10455.1	10288.3	9868.6	9603.5	10023.3	10939.1	11471.3	12587.9	12967.5
37.5°	11415.0	11402.9	11407.0	11180.0	11003.4	10621.8	10790.4	12019.5	12893.2	14236.7	14491.7
40°	12166.2	12172.1	12234.4	12130.0	12099.8	11862.8	11694.2	13172.2	14369.2	15867.3	15927.6
42.5°	12782.7	12788.6	13077.9	12921.2	13108.0	13055.7	12812.8	14248.7	15726.8	17186.8	17178.8
45°	13188.3	13198.4	13483.5	13610.1	14005.7	14178.4	13997.7	15353.3	16994.0	18407.8	18249.1
47.5°	13489.6	13481.5	13644.2	14154.3	14829.1	15170.5	15236.8	16608.4	18223.1	19538.5	19263.4
50°	13652.3	13670.3	13981.6	14662.4	15658.5	16134.4	16498.0	18090.6	19484.2	20628.9	20241.4
52.5°	13754.6	13845.0	14300.9	15110.3	16407.6	17152.7	17608.5	19733.3	20906.1	21761.7	21277.7
55°	13826.9	13991.6	14441.5	15345.2	16873.5	17978.0	18650.8	21428.3	22585.1	23045.0	22414.3
57.5°	13310.9	13469.5	14200.5	15381.4	17241.1	18656.9	19761.4	23217.6	24336.3	24627.5	23539.0
60°	12429.2	12523.6	13465.5	15098.2	17160.7	19273.4	21219.4	25340.4	26511.3	26533.3	24723.9
62.5°	11521.4	11559.6	12511.6	14359.2	16799.2	19476.2	22677.4	28170.0	29089.8	28808.7	25983.0
65°	10316.5	10358.7	11340.7	13144.1	15925.6	19251.3	23870.3	31152.4	32439.6	31688.6	27232.2
67.5°	8742.1	8834.4	9746.2	11417.0	14371.2	18381.7	24725.9	33206.8	33996.1	33349.4	28095.7
69°	7639.4	7725.8	8491.0	10222.1	13160.2	17401.7	25085.4	33749.0	34381.7	33676.7	28240.4
70°	6846.2	6912.5	7629.5	9328.4	12212.3	16564.2	25163.7	33895.6	34361.5	33688.8	28162.1
72.5°	4880.1	4936.4	5325.9	6526.9	9256.1	13875.2	24780.1	33498.0	33839.4	32869.4	27135.8
75°	3608.9	3653.1	3886.0	4311.8	5388.2	9818.5	22390.3	31845.2	32208.7	31078.1	24997.0
77.5°	2618.8	2654.9	2879.9	3295.5	3791.6	4623.1	15521.9	28740.5	29097.9	28190.2	21518.6
80°	1787.4	1825.6	2028.3	2379.8	2771.4	3076.7	7621.4	21034.7	23004.8	22562.9	15335.2
82.5°	335.4	411.7	871.6	1235.1	1558.4	1666.9	2881.9	11565.6	13439.3	13708.4	7996.9
85°	222.9	241.0	532.2	518.2	508.1	745.1	1128.7	5544.9	7014.9	7267.9	3452.2
87.5°	110.4	116.5	158.7	218.9	279.2	335.4	371.5	1462.0	2112.7	2265.3	644.6
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°	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3	5175.3
2.5°	5149.2	5139.1	5109.0	5097.0	5089.0	5085.0	5036.8	5028.7	5004.6	4988.5	4974.5
5°	5225.5	5209.5	5139.1	5113.1	5072.9	5038.8	4958.4	4924.3	4900.2	4868.0	4854.0
7.5°	5360.1	5331.9	5225.5	5177.3	5107.0	5048.8	4938.4	4886.1	4839.9	4795.7	4787.7
10°	5542.9	5490.6	5344.0	5269.7	5167.3	5099.0	4970.5	4870.0	4801.8	4751.5	4749.5
12.5°	5781.9	5703.5	5526.7	5428.4	5301.8	5197.4	5050.8	4900.2	4787.7	4707.4	4703.4
15°	6067.0	5984.6	5805.9	5679.4	5530.8	5390.2	5155.2	4932.4	4745.6	4617.0	4600.9
17.5°	6416.4	6338.1	6175.4	6073.0	5864.1	5587.1	5253.6	4920.3	4653.2	4476.5	4450.3
20°	6858.3	6880.3	6727.7	6504.8	6157.4	5749.6	5301.8	4858.1	4470.4	4223.4	4187.2
22.5°	7474.8	7549.1	7294.0	6884.4	6380.3	5836.0	5281.8	4693.3	4219.4	3920.1	3890.0
25°	8229.9	8207.9	7747.9	7163.5	6494.7	5834.0	5169.3	4458.4	3900.1	3562.6	3540.6
27.5°	9019.1	8886.6	8175.6	7358.4	6514.9	5723.6	4948.4	4104.9	3532.5	3251.3	3185.1
30°	10025.3	9655.8	8613.5	7523.0	6448.5	5512.8	4548.8	3765.5	3321.7	3016.5	2972.3
32.5°	11188.1	10573.6	9105.5	7573.2	6302.0	5189.4	4115.0	3608.9	3183.1	2835.7	2785.5
35°	12539.7	11748.4	9675.8	7591.3	6022.8	4709.5	3880.0	3518.4	3090.8	2697.1	2630.9
37.5°	13953.5	12993.5	10378.8	7571.2	5697.5	4183.2	3715.3	3388.0	2986.3	2665.0	2626.9
40°	15230.8	14192.5	11172.0	7515.0	5251.6	3841.8	3536.6	3207.3	2896.0	2652.9	2622.8
42.5°	16401.5	15236.8	11931.2	7420.6	4695.4	3598.8	3339.7	3072.7	2781.5	2484.2	2424.0
45°	17415.7	16200.8	12493.5	7195.7	4072.8	3349.8	3102.8	2885.9	2610.7	2315.6	2255.3
47.5°	18285.3	16996.0	12935.3	6810.1	3570.7	3116.8	2833.6	2663.0	2422.0	2140.8	2080.6
50°	19173.0	17642.7	13194.4	6173.4	3151.0	2849.8	2566.5	2403.9	2197.1	1992.2	1956.0
52.5°	20125.0	18693.0	13571.9	5125.1	2763.4	2568.6	2283.4	2106.7	1954.0	1867.6	1833.5
55°	21086.9	19624.9	13710.4	3875.9	2424.0	2347.7	2016.4	1787.4	1678.9	1624.7	1616.7
57.5°	22042.8	20420.1	13236.6	2759.3	2199.1	2092.7	1731.1	1514.3	1385.7	1423.9	1482.1
60°	23020.8	21000.5	12025.5	2158.9	2022.3	1787.4	1490.1	1329.4	1273.3	1231.1	1233.1
62.5°	23924.6	21271.7	9965.1	1833.5	1851.6	1598.5	1405.7	1249.2	1192.9	1120.6	1098.5
65°	24525.0	20793.6	7778.1	1697.0	1697.0	1550.4	1401.8	1251.1	1174.8	1048.3	1026.2
67.5°	24352.4	19548.6	5755.7	1574.5	1598.5	1570.5	1436.0	1247.2	1152.7	1032.2	1024.2
69°	23796.0	18355.7	4420.2	1538.3	1582.5	1588.6	1476.1	1267.2	1176.8	994.1	949.9
70°	23237.8	17435.9	3659.1	1508.2	1578.5	1600.6	1508.2	1291.3	1158.8	933.9	905.7
72.5°	21339.9	14736.7	1843.6	1391.8	1572.5	1614.7	1578.5	1381.7	1148.7	899.7	875.6
75°	18761.3	11334.7	1182.8	1293.3	1522.2	1630.8	1634.7	1466.1	1152.7	879.6	849.5
77.5°	15031.9	6571.1	982.0	1182.8	1427.9	1598.5	1652.8	1530.3	1201.0	913.7	879.6
80°	7992.9	2598.7	789.2	1010.2	1307.4	1502.2	1602.6	1508.2	1188.9	763.1	741.1
82.5°	3538.6	807.3	578.4	793.2	1028.2	1313.4	1361.7	1327.4	1040.3	461.9	528.1
85°	994.1	333.3	385.6	570.3	711.0	929.9	1066.4	1070.4	807.3	200.9	46.2
87.5°	102.4	76.3	112.5	218.9	409.7	644.6	779.2	747.1	540.2	170.7	4.0
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)