

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: P285789

Luminaire Tested: **USSL-XL-C06-D-U-T3-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285789
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-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50585.8 lumens
Efficiency: N/A
Efficacy: 146.2 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

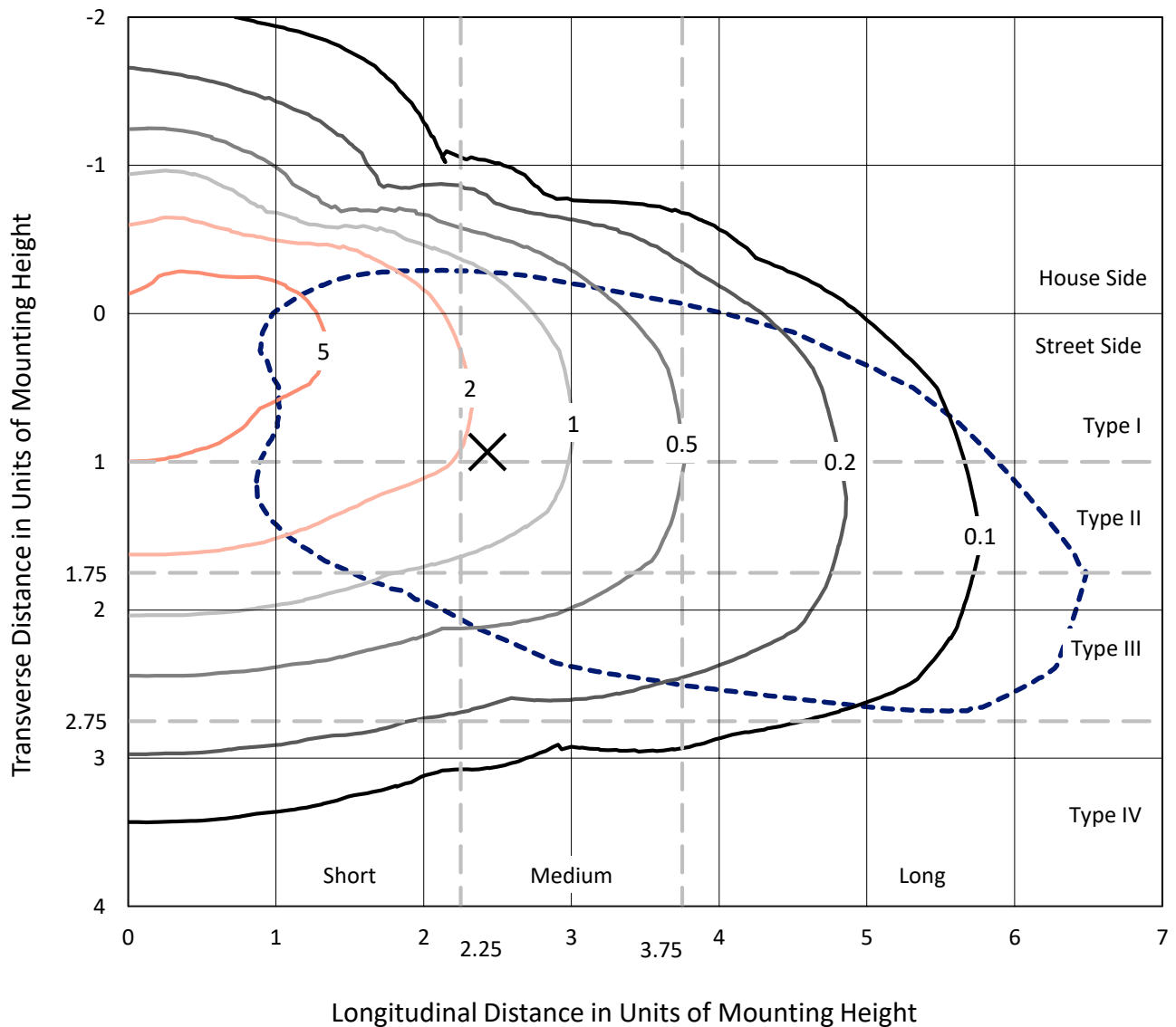
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

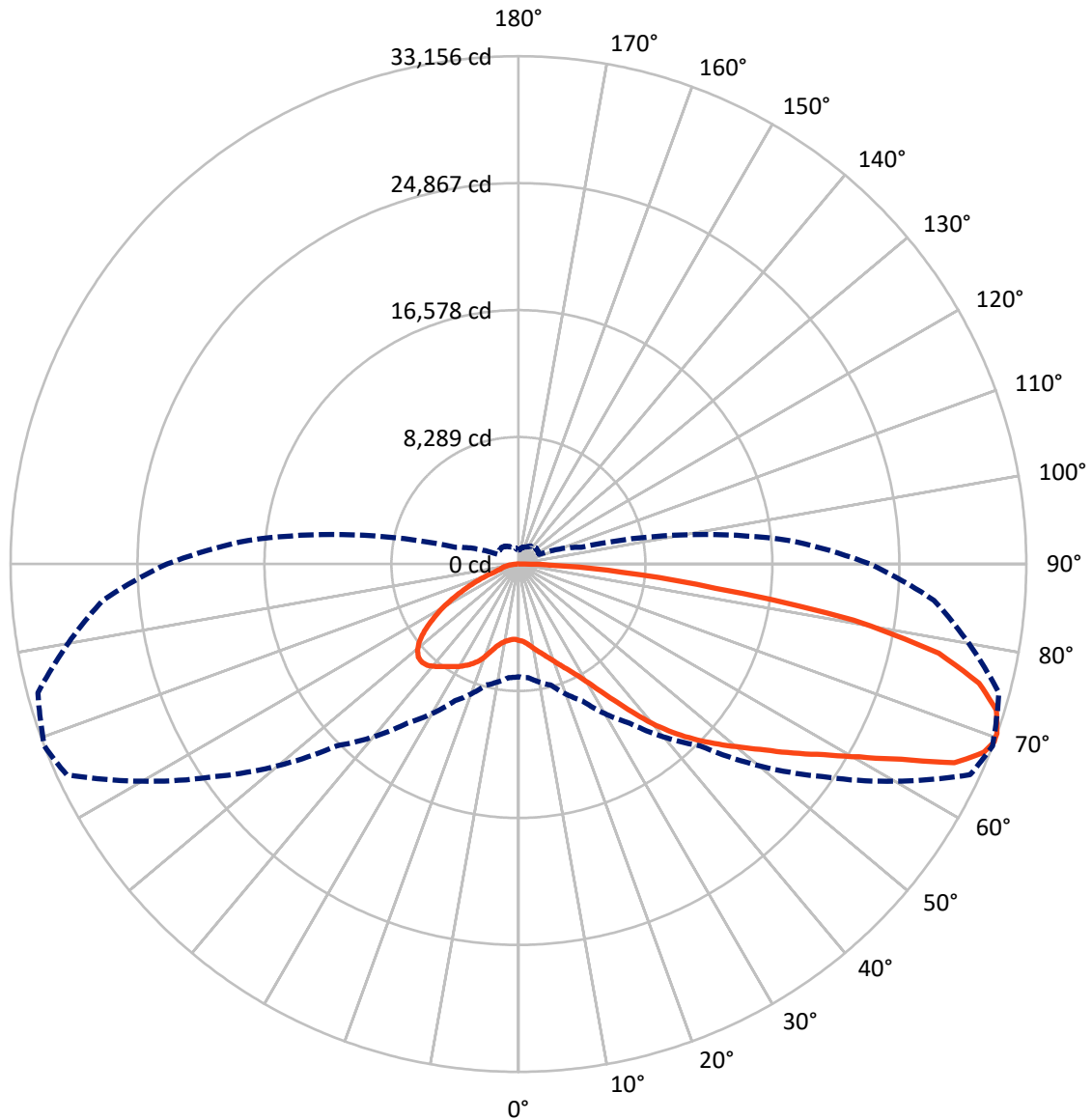
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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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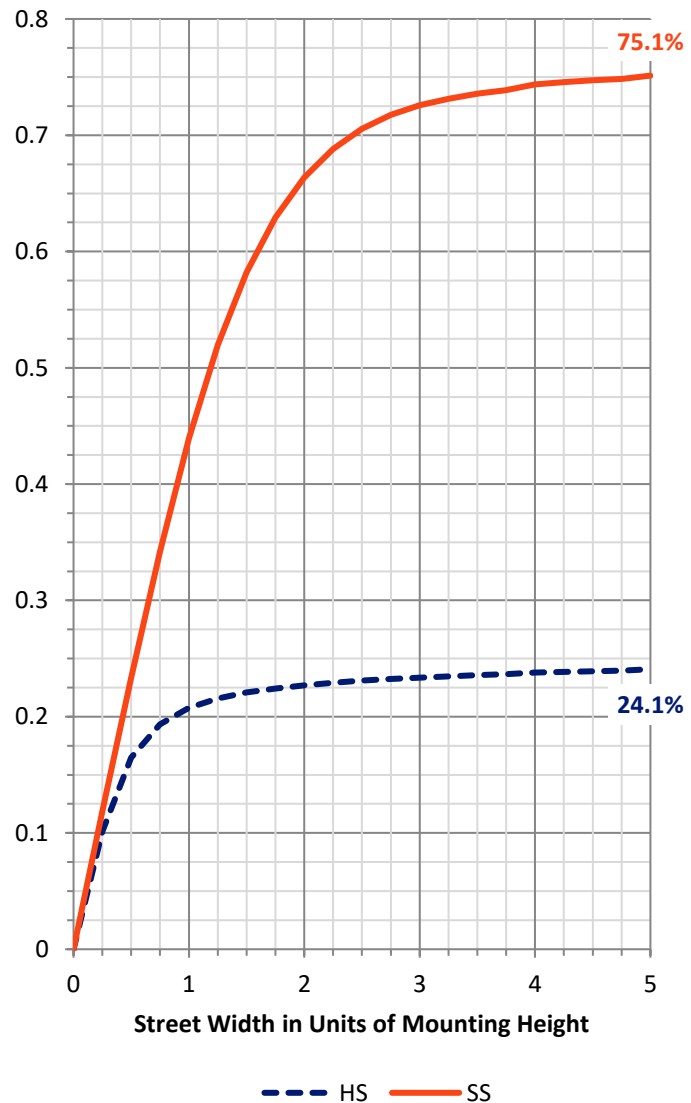
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12436.7	0.0	12436.7
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	38149.2	0.0	38149.2
	% Fixture	75.4	0.0	75.4
Total	Lumens	50585.8	0.0	50585.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.6	1.0
10°-20°	1602.2	3.2
20°-30°	3000.7	5.9
30°-40°	5098.6	10.1
40°-50°	7824.1	15.5
50°-60°	10222.5	20.2
60°-70°	11640.2	23.0
70°-80°	8788.1	17.4
80°-90°	1917.9	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°	50585.8	100.0
0°-180°	50585.8	100.0



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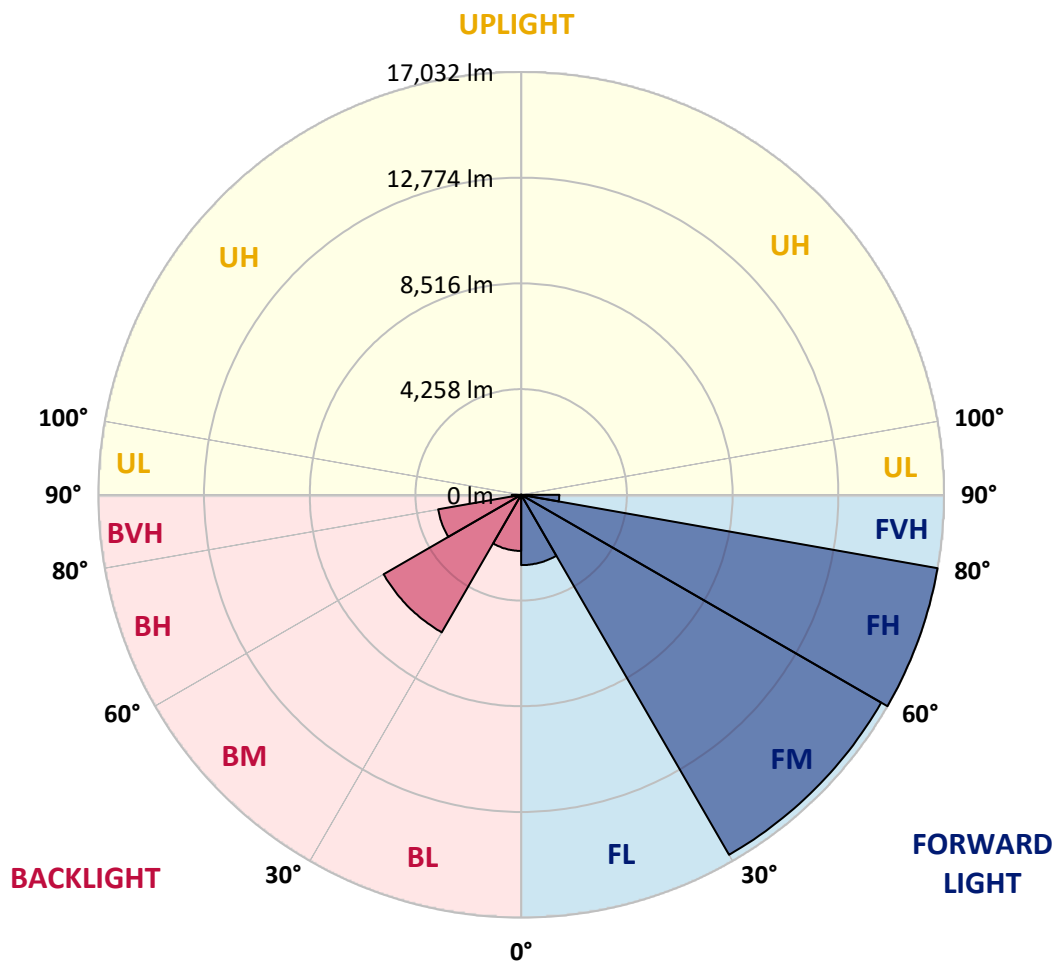
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2833.2	5.6			
FM	(30°-60°)	16745.9	33.1			
FH	(60°-80°)	17032.4	33.7			G5
FVH	(80°-90°)	1537.6	3.0			G5
BL	(0°-30°)	2261.3	4.5	B3/2500		
BM	(30°-60°)	6399.2	12.7	B4/8500		
BH	(60°-80°)	3395.9	6.7	B4/5000		G4/5000
BVH	(80°-90°)	380.3	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°	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8
2.5°	5180.6	5196.1	5194.1	5186.4	5182.5	5161.2	5134.0	5099.2	5041.1	5014.0	4979.1
5°	5401.4	5412.9	5414.9	5401.4	5385.9	5352.9	5296.7	5242.5	5178.6	5139.9	5072.0
7.5°	5589.2	5598.8	5616.3	5604.6	5596.9	5569.8	5515.6	5451.7	5368.4	5314.2	5219.3
10°	5740.2	5747.9	5761.5	5780.9	5817.7	5794.5	5730.6	5686.0	5610.5	5527.2	5409.1
12.5°	5848.7	5842.9	5881.6	5916.5	5992.0	6017.2	5972.6	5939.7	5866.1	5780.9	5641.4
15°	5899.1	5897.1	5964.9	6052.0	6164.4	6205.1	6205.1	6168.2	6127.6	6061.8	5914.6
17.5°	6007.5	6015.3	6059.8	6172.1	6292.2	6387.1	6478.1	6482.0	6451.0	6406.5	6253.4
20°	6174.0	6187.6	6210.8	6299.9	6433.6	6600.1	6770.5	6832.5	6817.1	6799.6	6679.5
22.5°	6383.2	6389.0	6383.2	6460.7	6638.9	6863.5	7109.5	7212.1	7221.7	7223.7	7163.7
25°	6718.3	6693.1	6629.1	6698.9	6906.1	7165.7	7465.8	7636.3	7680.8	7721.5	7864.8
27.5°	7330.3	7272.2	7152.1	7128.8	7247.0	7531.6	7903.5	8188.2	8252.1	8364.4	8746.0
30°	8317.9	8240.5	8128.2	7785.4	7738.9	7982.8	8455.5	8862.1	8990.0	9330.8	9770.4
32.5°	9319.2	9268.8	9142.9	8813.7	8465.1	8556.1	9020.9	9656.1	9931.2	10620.6	11027.3
35°	10179.1	10153.8	10082.2	9921.5	9516.7	9261.1	9665.9	10549.0	11062.2	12138.9	12505.0
37.5°	11007.9	10996.4	11000.2	10781.3	10611.0	10243.0	10405.7	11590.9	12433.4	13729.0	13974.9
40°	11732.2	11738.1	11798.1	11697.4	11668.3	11439.8	11277.1	12702.5	13856.8	15301.5	15359.6
42.5°	12326.8	12332.6	12611.5	12460.4	12640.6	12590.2	12355.9	13740.5	15165.9	16573.9	16566.1
45°	12718.1	12727.7	13002.7	13124.7	13506.2	13672.8	13498.5	14805.7	16388.0	17751.4	17598.4
47.5°	13008.5	13000.7	13157.6	13649.5	14300.3	14629.5	14693.4	16016.1	17573.2	18841.7	18576.3
50°	13165.3	13182.8	13483.0	14139.5	15100.1	15559.1	15909.6	17445.4	18789.4	19893.3	19519.5
52.5°	13264.1	13351.3	13790.9	14571.4	15822.5	16541.0	16980.6	19029.6	20160.6	20985.6	20518.8
55°	13333.9	13492.6	13926.5	14798.0	16271.8	17336.9	17985.8	20664.1	21779.6	22223.1	21615.0
57.5°	12836.1	12989.2	13694.1	14832.9	16626.2	17991.5	19056.7	22389.6	23468.4	23749.2	22699.6
60°	11986.0	12076.9	12985.3	14559.7	16548.7	18586.1	20462.6	24436.7	25565.7	25587.0	23842.1
62.5°	11110.6	11147.4	12065.4	13847.1	16200.1	18781.6	21868.7	27165.4	28052.5	27781.4	25056.5
65°	9948.6	9989.2	10936.3	12675.5	15357.6	18564.8	23019.1	30041.4	31282.7	30558.5	26261.0
67.5°	8430.2	8519.4	9398.6	11009.9	13858.7	17726.2	23844.0	32022.5	32783.7	32160.1	27093.8
69°	7367.0	7450.4	8188.2	9857.6	12690.9	16781.1	24190.7	32545.5	33155.5	32475.8	27233.3
70°	6602.0	6665.9	7357.4	8995.8	11776.8	15973.5	24266.3	32686.9	33136.2	32487.4	27157.7
72.5°	4706.1	4760.3	5136.0	6294.1	8926.1	13380.4	23896.4	32303.4	32632.6	31697.3	26168.1
75°	3480.2	3522.8	3747.4	4158.0	5196.1	9468.3	21591.8	30709.5	31060.1	29969.7	24105.5
77.5°	2525.4	2560.3	2777.1	3178.0	3656.4	4458.2	14968.4	27715.4	28060.2	27184.8	20751.3
80°	1723.6	1760.4	1956.0	2294.9	2672.5	2967.0	7349.6	20284.5	22184.3	21758.3	14788.3
82.5°	323.4	397.0	840.5	1191.0	1502.8	1607.4	2779.1	11153.2	12960.1	13219.6	7711.7
85°	214.9	232.4	513.2	499.6	490.0	718.5	1088.4	5347.1	6764.7	7008.8	3329.1
87.5°	106.5	112.3	152.9	211.1	269.2	323.4	358.2	1409.9	2037.3	2184.6	621.6
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°	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8
2.5°	4965.6	4955.9	4926.8	4915.2	4907.4	4903.6	4857.1	4849.4	4826.1	4810.7	4797.1
5°	5039.2	5023.7	4955.9	4930.8	4892.0	4859.1	4781.6	4748.7	4725.5	4694.4	4680.9
7.5°	5168.9	5141.8	5039.2	4992.7	4924.9	4868.8	4762.2	4711.9	4667.4	4624.8	4617.0
10°	5345.2	5294.8	5153.4	5081.8	4983.0	4917.2	4793.2	4696.4	4630.5	4582.2	4580.1
12.5°	5575.6	5500.1	5329.7	5234.7	5112.7	5012.1	4870.7	4725.5	4617.0	4539.6	4535.6
15°	5850.6	5771.3	5598.8	5476.8	5333.5	5198.0	4971.4	4756.4	4576.3	4452.3	4436.8
17.5°	6187.6	6112.1	5955.3	5856.5	5655.0	5387.8	5066.3	4744.9	4487.2	4316.8	4291.6
20°	6613.7	6635.0	6487.8	6272.8	5937.8	5544.7	5112.7	4684.8	4311.0	4072.8	4037.9
22.5°	7208.3	7279.9	7033.9	6638.9	6152.7	5628.0	5093.3	4526.0	4069.0	3780.3	3751.3
25°	7936.4	7915.1	7471.7	6908.0	6263.2	5625.9	4984.9	4299.4	3760.9	3435.7	3414.4
27.5°	8697.5	8569.7	7884.2	7095.9	6282.6	5519.4	4771.9	3958.5	3406.6	3135.4	3071.5
30°	9667.8	9311.4	8306.3	7254.7	6218.6	5316.1	4386.5	3631.2	3203.2	2908.9	2866.3
32.5°	10789.1	10196.4	8780.7	7303.1	6077.3	5004.3	3968.2	3480.2	3069.6	2734.5	2686.1
35°	12092.5	11329.4	9330.8	7320.5	5808.0	4541.5	3741.7	3393.1	2980.5	2600.9	2537.0
37.5°	13455.9	12530.1	10008.6	7301.2	5494.3	4034.1	3582.8	3267.1	2879.9	2569.9	2533.2
40°	14687.6	13686.4	10773.6	7247.0	5064.3	3704.8	3410.4	3092.8	2792.6	2558.3	2529.2
42.5°	15816.7	14693.4	11505.6	7155.9	4527.9	3470.5	3220.6	2963.1	2682.3	2395.7	2337.5
45°	16794.6	15623.0	12047.9	6939.1	3927.6	3230.4	2992.1	2783.0	2517.7	2233.0	2174.9
47.5°	17633.2	16389.9	12474.0	6567.2	3443.4	3005.7	2732.6	2568.0	2335.6	2064.5	2006.4
50°	18489.2	17013.5	12723.8	5953.2	3038.6	2748.1	2475.1	2318.2	2118.7	1921.2	1886.3
52.5°	19407.2	18026.4	13088.0	4942.3	2664.8	2477.0	2201.9	2031.5	1884.4	1801.1	1768.1
55°	20334.9	18924.9	13221.5	3737.7	2337.5	2263.9	1944.4	1723.6	1619.0	1566.7	1559.0
57.5°	21256.7	19691.9	12764.5	2661.0	2120.6	2017.9	1669.4	1460.2	1336.3	1373.1	1429.3
60°	22199.8	20251.6	11596.7	2081.9	1950.2	1723.6	1437.0	1282.1	1227.8	1187.2	1189.1
62.5°	23071.4	20513.1	9609.7	1768.1	1785.6	1541.6	1355.6	1204.6	1150.4	1080.7	1059.4
65°	23650.4	20052.1	7500.7	1636.5	1636.5	1495.1	1351.8	1206.5	1132.9	1010.9	989.6
67.5°	23483.9	18851.4	5550.5	1518.3	1541.6	1514.5	1384.8	1202.7	1111.6	995.5	987.7
69°	22947.5	17701.1	4262.6	1483.4	1526.0	1531.9	1423.4	1222.1	1134.8	958.7	916.1
70°	22409.0	16814.0	3528.6	1454.4	1522.2	1543.5	1454.4	1245.3	1117.5	900.6	873.5
72.5°	20578.9	14211.1	1777.9	1342.2	1516.4	1557.1	1522.2	1332.4	1107.8	867.6	844.4
75°	18092.2	10930.4	1140.7	1247.2	1468.0	1572.6	1576.4	1413.8	1111.6	848.2	819.2
77.5°	14495.8	6336.7	947.0	1140.7	1376.9	1541.6	1593.9	1475.7	1158.2	881.2	848.2
80°	7707.9	2506.0	761.1	974.2	1260.8	1448.6	1545.4	1454.4	1146.5	735.9	714.6
82.5°	3412.3	778.5	557.7	764.9	991.5	1266.6	1313.0	1280.1	1003.2	445.5	509.4
85°	958.7	321.5	371.8	550.0	685.5	896.7	1028.3	1032.2	778.5	193.6	44.5
87.5°	98.8	73.6	108.4	211.1	395.0	621.6	751.5	720.4	520.9	164.6	3.9
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)