

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: P639240

Luminaire Tested: **USSL-M-PA6B-730-U-T2R-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6B-730-U-T2R-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE
SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37843 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

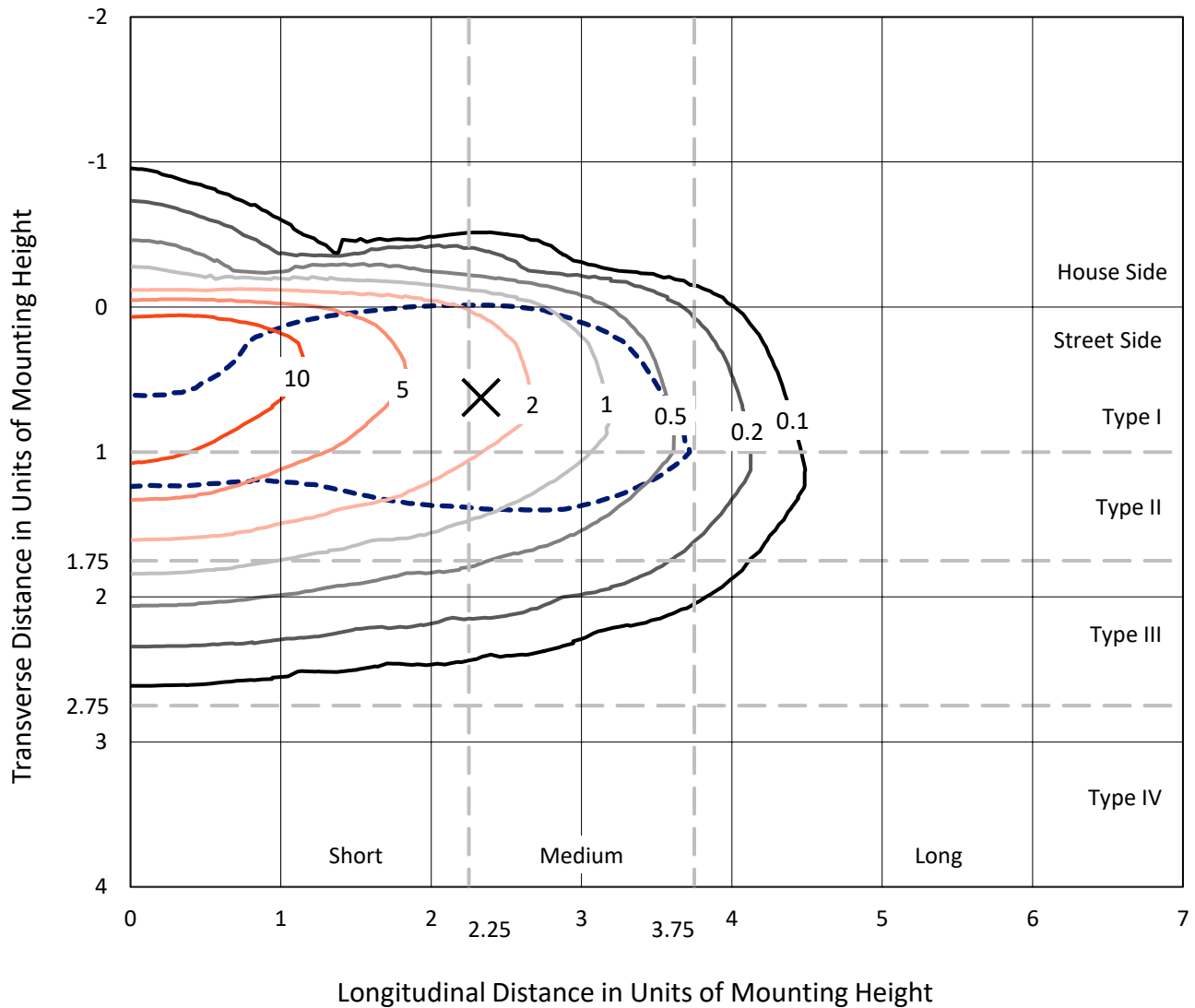
Input Watts (W): 365.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

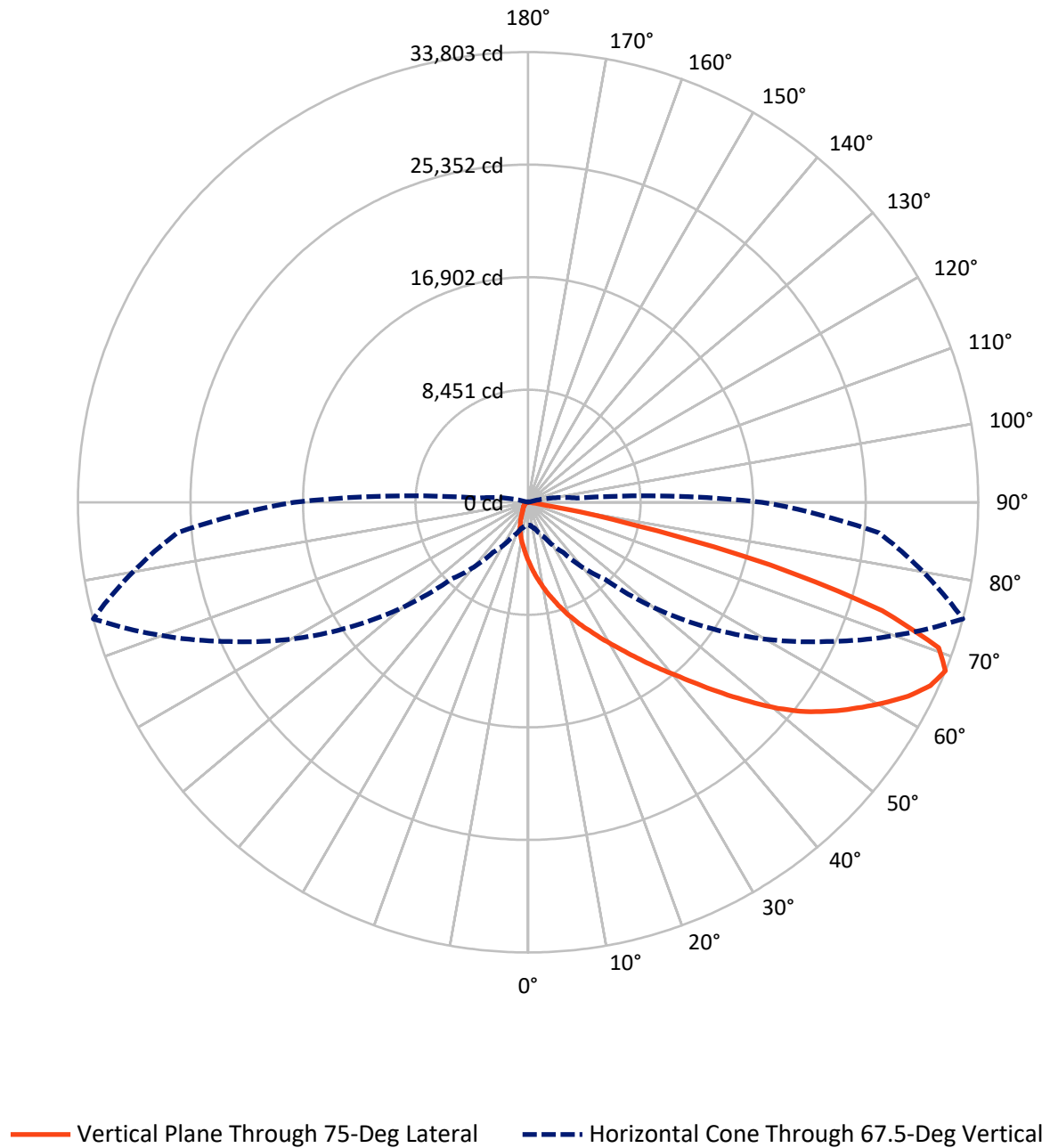
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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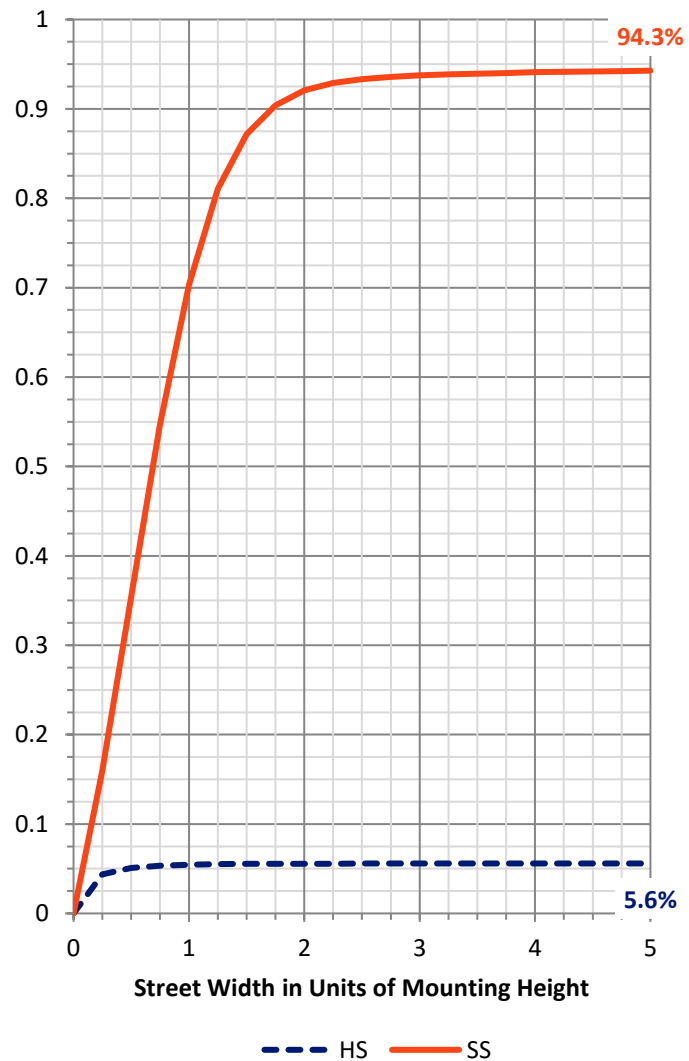
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2128.1	0.0	2128.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	35714.9	0.0	35714.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	37843.0	0.0	37843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.9	1.1
10°-20°	1460.2	3.9
20°-30°	2904.2	7.7
30°-40°	5265.3	13.9
40°-50°	7883.0	20.8
50°-60°	8984.0	23.7
60°-70°	7631.7	20.2
70°-80°	3148.7	8.3
80°-90°	132.9	0.4
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°	37843.0	100.0
0°-180°	37843.0	100.0

Coefficient of Utilization



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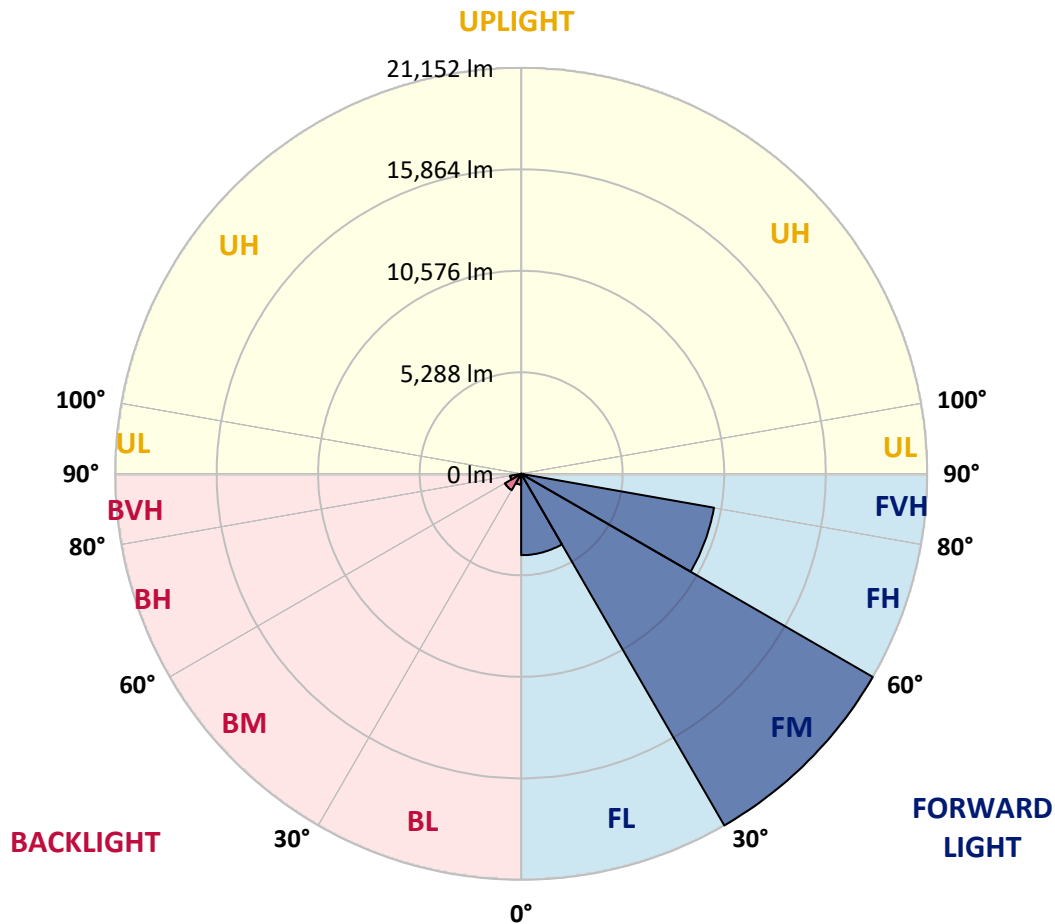
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4239.2	11.2			
FM	(30°-60°)	21151.9	55.9			
FH	(60°-80°)	10197.5	26.9			G4/12000
FVH	(80°-90°)	126.3	0.3			G2/225
BL	(0°-30°)	558.2	1.5	B2/1000		
BM	(30°-60°)	980.5	2.6	B1/1000		
BH	(60°-80°)	582.9	1.5	B2/1000		G2/1000
BVH	(80°-90°)	6.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4405.4	4405.4	4405.4	4405.4	4405.4	4405.4	4405.4	4405.4	4405.4	4405.4	4405.4
2.5°	6117.1	6043.5	6098.7	6034.3	5880.0	5687.8	5472.5	5200.8	4902.7	4604.5	4453.7
5°	7384.5	7233.7	7244.1	7162.4	6989.7	6731.8	6415.3	5954.8	5423.0	4826.7	4518.2
7.5°	8053.4	7924.4	7935.9	7877.2	7755.2	7539.9	7226.8	6681.2	5973.2	5103.0	4633.3
10°	8577.1	8496.5	8521.9	8487.3	8398.7	8226.0	7949.8	7399.5	6555.7	5434.5	4793.3
12.5°	9113.6	9027.2	9075.6	9061.7	9007.6	8886.8	8608.2	8107.5	7160.1	5799.4	4974.1
15°	9432.4	9325.4	9425.5	9526.8	9592.4	9549.8	9339.2	8816.6	7811.6	6186.2	5166.3
17.5°	9580.9	9492.3	9631.6	9805.4	10029.9	10150.7	10012.6	9561.3	8497.7	6613.3	5394.2
20°	9922.8	9842.2	9968.8	10151.9	10394.8	10644.6	10681.4	10329.2	9202.2	7073.7	5640.6
22.5°	10718.2	10626.1	10681.4	10713.6	10878.2	11115.4	11276.5	11108.5	9928.6	7560.7	5900.7
25°	12095.0	11962.6	11895.8	11667.9	11651.8	11720.9	11823.3	11893.5	10661.8	8064.9	6157.4
27.5°	13973.6	13799.8	13566.1	12998.6	12713.2	12549.7	12434.6	12679.8	11489.5	8551.8	6426.8
30°	15929.4	15710.7	15421.8	14735.7	14065.7	13632.9	13207.0	13485.6	12365.5	9132.0	6715.7
32.5°	17614.7	17361.4	16981.6	16284.0	15581.8	14913.0	14191.2	14299.4	13349.7	9776.6	7048.4
35°	18952.3	18646.1	18335.3	17643.5	17013.8	16303.6	15372.3	15159.3	14498.6	10508.7	7462.8
37.5°	19902.0	19576.2	19230.9	18630.0	18183.4	17705.6	16773.2	16173.5	15730.3	11365.2	7962.4
40°	20469.5	20125.3	19842.1	19409.3	19087.0	18951.2	18324.9	17363.7	17057.5	12364.4	8587.5
42.5°	20689.4	20355.6	20155.3	19841.0	19709.8	19911.2	19838.7	18856.8	18653.0	13562.7	9336.9
45°	20540.9	20234.7	20115.0	19969.9	20036.7	20588.1	21270.7	20493.7	20446.5	14908.4	10204.8
47.5°	19804.2	19562.4	19644.1	19759.3	20035.5	20971.4	22433.4	22246.9	22334.4	16448.6	11200.6
50°	18190.3	18054.4	18427.4	19016.8	19666.0	21064.7	23332.4	23911.4	24318.9	18076.3	12294.1
52.5°	14976.3	15064.9	16273.6	17538.7	18796.9	20817.2	23827.4	25361.8	26128.5	19555.5	13304.8
55°	11495.3	11450.4	12988.3	15319.3	17298.1	20089.6	23951.7	26237.9	27687.1	20968.0	14241.9
57.5°	8892.5	8855.7	9767.4	12351.7	15002.8	18753.2	23774.4	26778.9	29149.1	22317.1	15190.4
60°	6838.9	6817.0	7505.4	9217.2	12139.9	16819.3	23117.1	27039.1	30627.1	23784.8	16156.2
62.5°	4907.3	4936.1	5525.5	6849.3	9423.2	14106.0	21779.5	26876.7	32048.8	25086.7	17048.3
65°	3045.9	3078.1	3581.2	4771.5	6786.0	11000.3	19525.6	26175.7	33195.3	26050.2	17681.5
67.5°	1715.2	1731.3	2053.6	2892.8	4591.9	8147.7	16348.4	24732.2	33803.1	26455.4	17590.5
70°	1155.7	1161.5	1257.0	1594.3	2643.0	5478.3	12371.3	22066.1	32711.9	25108.6	15898.4
72.5°	922.1	925.5	992.3	1072.9	1514.9	3394.7	8302.0	17865.6	27808.0	19902.0	11679.4
75°	681.5	696.4	821.9	868.0	1026.8	1854.5	4465.3	11708.2	18771.6	11177.5	6350.8
77.5°	573.3	576.7	617.0	716.0	783.9	1052.1	1501.1	5174.4	7763.3	3302.6	1636.9
80°	387.9	387.9	459.3	526.1	597.4	693.0	592.8	1409.0	1437.8	533.0	303.9
82.5°	271.7	280.9	329.2	444.3	485.8	371.8	303.9	390.2	331.5	176.1	95.5
85°	74.8	92.1	225.6	330.4	259.0	112.8	183.0	154.3	114.0	65.6	40.3
87.5°	11.5	13.8	108.2	99.0	70.2	20.7	63.3	26.5	35.7	25.3	19.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4405.4	4405.4	4405.4	4405.4	4405.4	4405.4	4405.4	4405.4	4405.4	4405.4
2.5°	4291.4	3992.1	3672.1	3392.4	3154.1	2936.5	2830.6	2684.5	2682.1	2579.7
5°	4194.7	3565.1	3005.6	2532.5	2154.9	1884.4	1717.5	1577.1	1511.4	1485.0
7.5°	4137.2	3214.0	2448.5	1871.7	1475.8	1247.8	1117.8	1064.8	1036.0	1022.2
10°	4123.4	2907.8	1971.9	1386.0	1098.2	990.0	946.2	919.8	909.4	899.0
12.5°	4115.3	2606.2	1593.2	1097.0	956.6	894.4	855.3	826.5	813.9	804.6
15°	4110.7	2303.4	1281.2	964.7	873.7	812.7	765.5	737.9	720.6	711.4
17.5°	4117.6	2031.8	1067.1	891.0	803.5	728.7	680.3	644.6	630.8	618.2
20°	4130.3	1755.5	954.3	824.2	727.5	645.8	595.1	557.2	537.6	530.7
22.5°	4136.0	1483.8	877.2	751.7	648.1	564.1	511.1	478.9	461.6	454.7
25°	4119.9	1246.7	803.5	674.6	569.8	489.2	437.4	411.0	401.7	394.8
27.5°	4081.9	1045.2	729.8	596.3	498.4	425.9	383.3	359.2	352.2	351.1
30°	4018.6	888.7	656.1	524.9	435.1	371.8	335.0	315.4	312.0	309.7
32.5°	3959.9	782.8	588.2	463.9	382.2	324.6	292.4	279.7	277.4	277.4
35°	3898.9	703.3	521.5	408.7	335.0	285.5	259.0	247.5	249.8	248.6
37.5°	3852.9	634.3	469.7	363.8	293.5	248.6	225.6	217.6	222.2	222.2
40°	3825.2	579.0	416.7	322.3	256.7	216.4	196.8	191.1	199.1	200.3
42.5°	3824.1	526.1	374.1	284.3	223.3	188.8	171.5	165.8	175.0	177.3
45°	3845.9	484.6	332.7	248.6	195.7	163.5	145.0	139.3	149.6	150.8
47.5°	3935.7	450.1	295.8	218.7	171.5	141.6	119.7	114.0	125.5	126.6
50°	4084.2	404.0	255.6	191.1	149.6	119.7	96.7	92.1	104.8	105.9
52.5°	4224.7	360.3	218.7	164.6	130.1	99.0	77.1	74.8	87.5	89.8
55°	4286.8	316.6	187.6	141.6	112.8	81.7	61.0	62.2	74.8	77.1
57.5°	4320.2	279.7	162.3	122.0	97.8	66.8	51.8	53.0	64.5	66.8
60°	4346.7	242.9	142.7	107.1	85.2	56.4	44.9	43.7	53.0	55.3
62.5°	4332.9	208.4	125.5	93.2	72.5	49.5	38.0	34.5	40.3	41.4
65°	4157.9	180.7	108.2	79.4	62.2	41.4	29.9	20.7	24.2	25.3
67.5°	3667.5	158.9	92.1	67.9	50.7	35.7	21.9	13.8	16.1	17.3
70°	2737.4	135.8	74.8	56.4	41.4	28.8	16.1	9.2	11.5	12.7
72.5°	1479.2	111.7	59.9	43.7	31.1	21.9	10.4	5.8	6.9	6.9
75°	611.3	80.6	44.9	29.9	21.9	16.1	8.1	2.3	2.3	2.3
77.5°	226.8	49.5	28.8	23.0	17.3	12.7	5.8	1.2	0.0	0.0
80°	103.6	26.5	21.9	18.4	13.8	10.4	4.6	0.0	0.0	0.0
82.5°	48.3	18.4	17.3	15.0	11.5	8.1	3.5	0.0	0.0	0.0
85°	23.0	15.0	16.1	13.8	11.5	6.9	2.3	0.0	0.0	0.0
87.5°	13.8	16.1	16.1	13.8	11.5	6.9	1.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)