

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: P639423

Luminaire Tested: **USSL-M-PA6D-740-U-T2U**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6D-740-U-T2U
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE II U OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67509 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

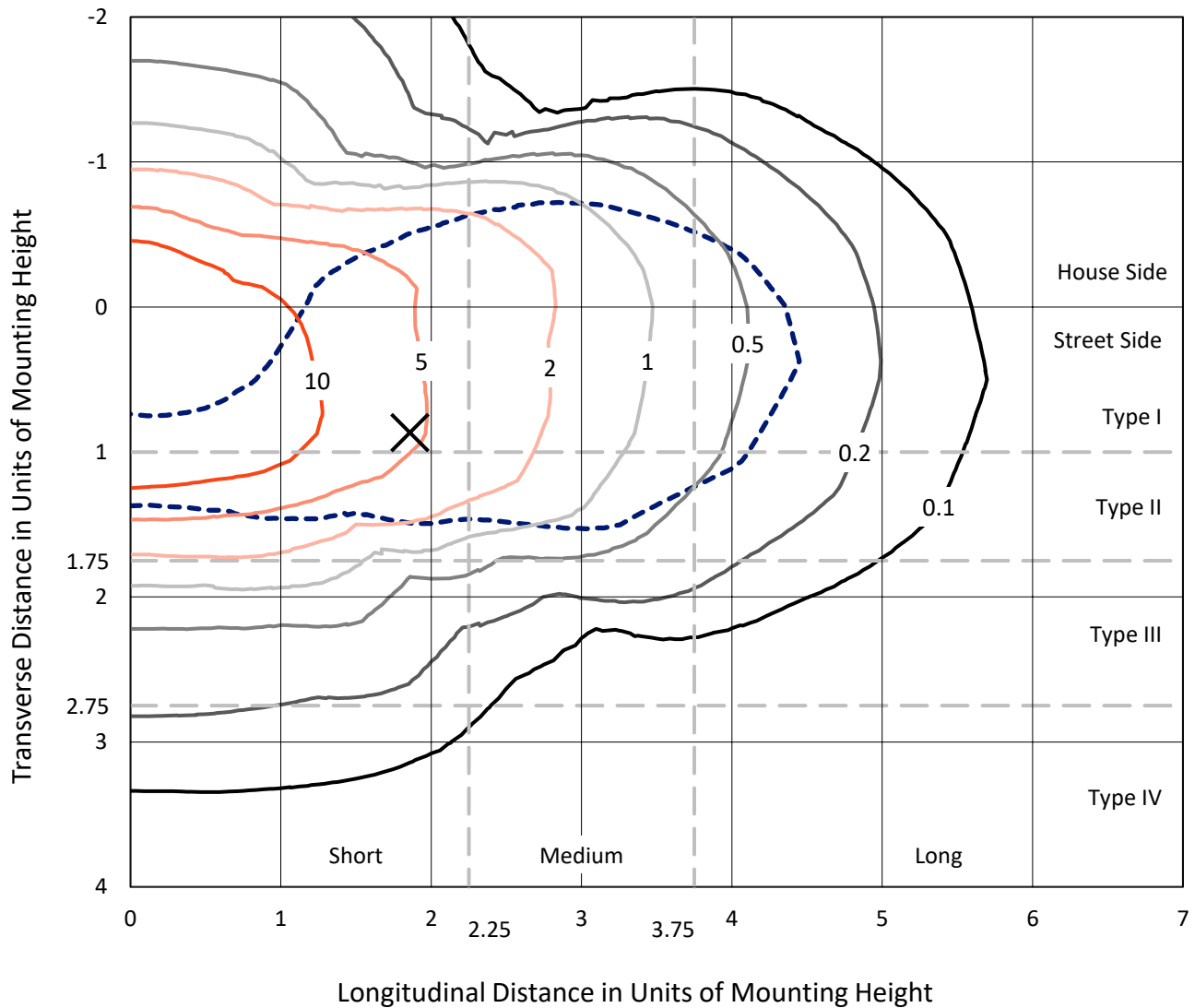
Input Watts (W): 544
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

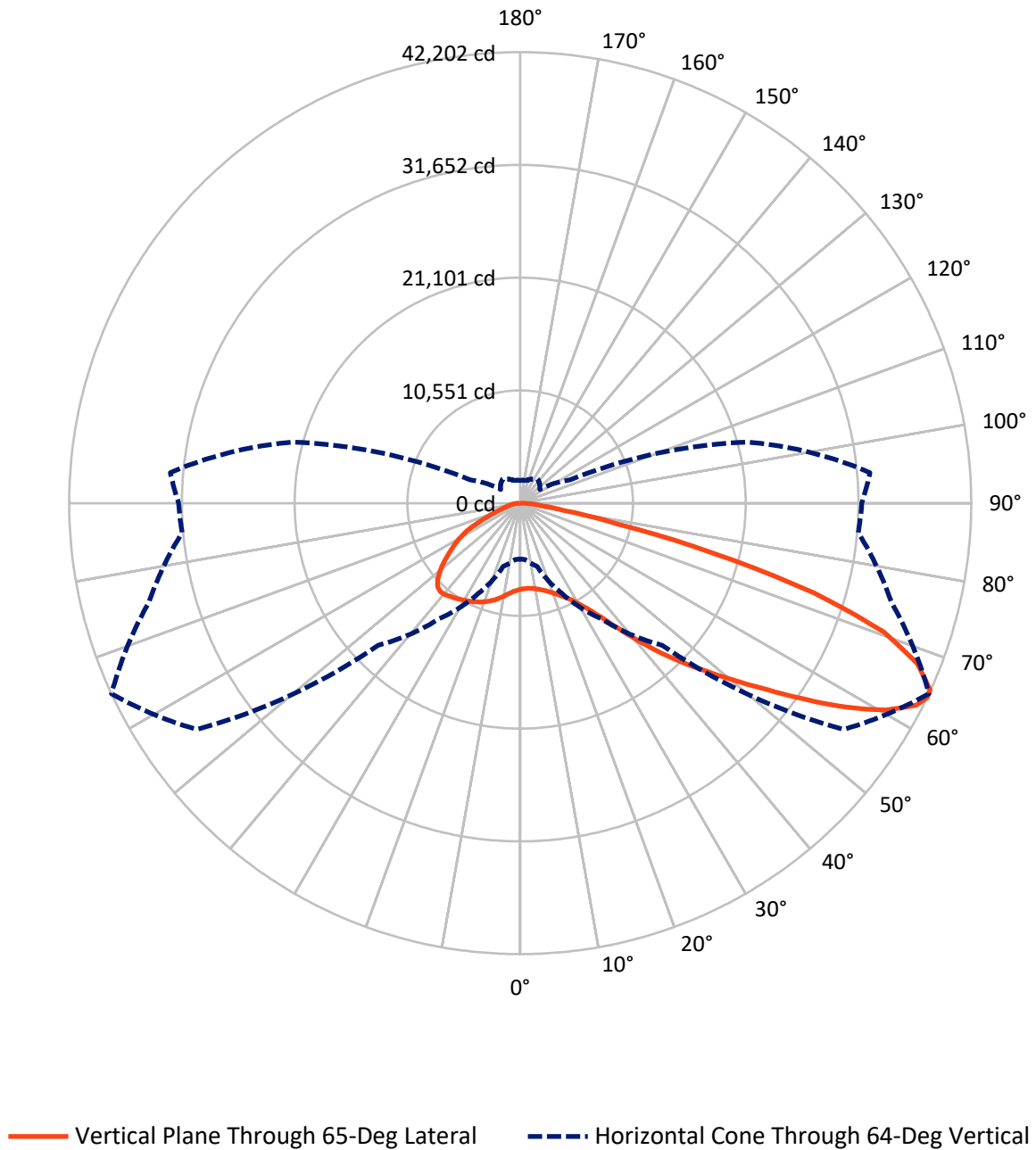
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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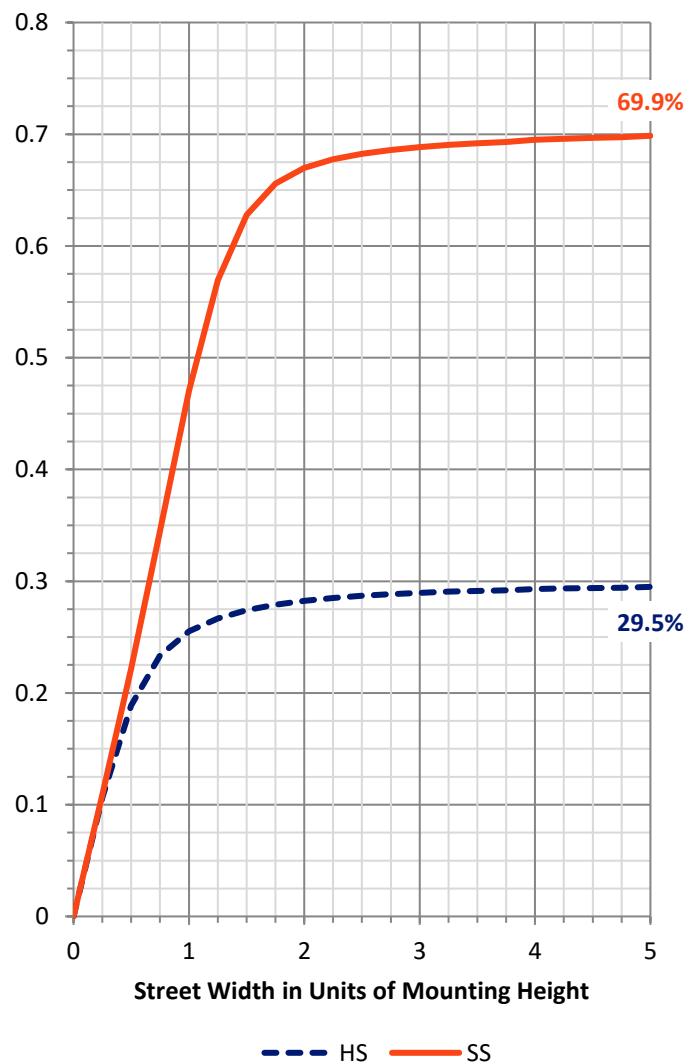
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20130.8	0.0	20130.8
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	47378.2	0.0	47378.2
	% Fixture	70.2	0.0	70.2
Total	Lumens	67509.0	0.0	67509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.9	1.2
10°-20°	2528.9	3.7
20°-30°	4544.3	6.7
30°-40°	7407.0	11.0
40°-50°	12348.2	18.3
50°-60°	16065.7	23.8
60°-70°	14492.4	21.5
70°-80°	8099.8	12.0
80°-90°	1227.9	1.8
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°	67509.0	100.0
0°-180°	67509.0	100.0

Coefficient of Utilization



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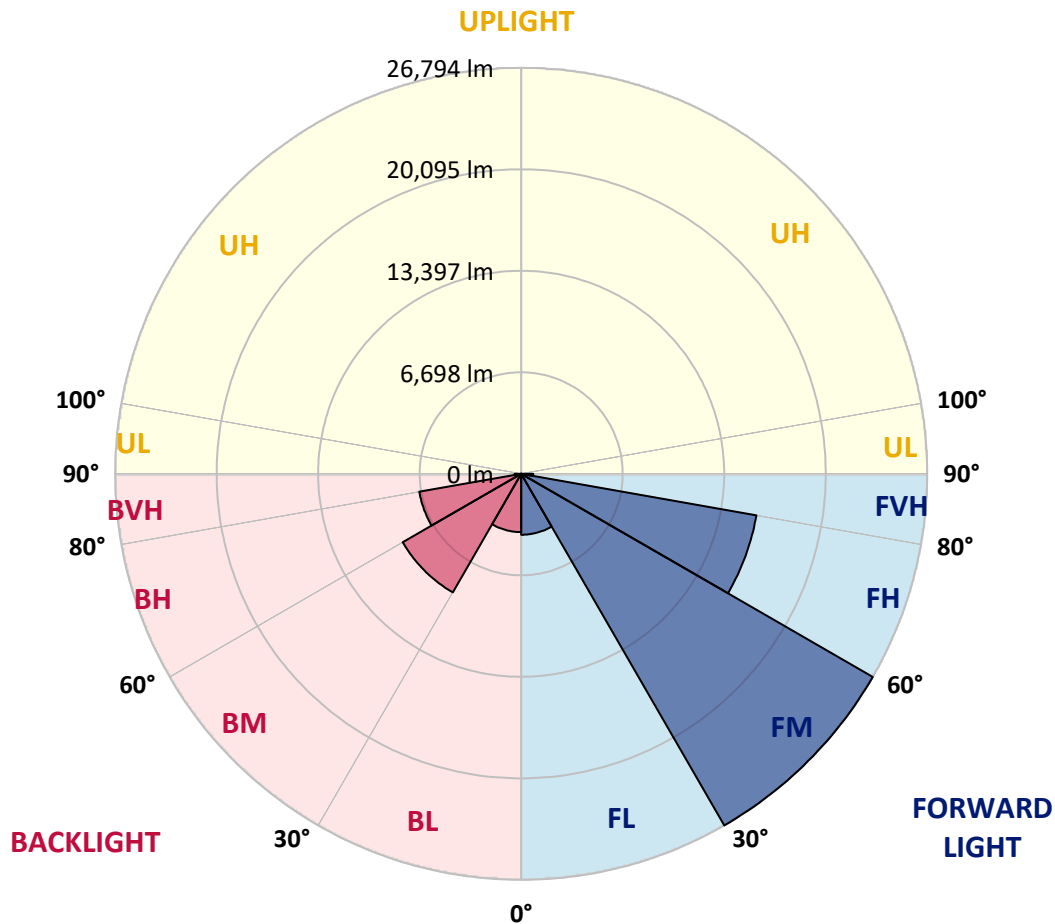
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4021.8	6.0			
FM	(30°-60°)	26794.0	39.7			
FH	(60°-80°)	15764.1	23.4			G5
FVH	(80°-90°)	798.4	1.2			G5
BL	(0°-30°)	3846.2	5.7	B4/5000		
BM	(30°-60°)	9026.9	13.4	B5		
BH	(60°-80°)	6828.1	10.1	B5		G5
BVH	(80°-90°)	429.6	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8056.0	8056.0	8056.0	8056.0	8056.0	8056.0	8056.0	8056.0	8056.0	8056.0	8056.0
2.5°	8049.4	7985.8	7989.1	7989.1	7990.7	7993.9	8005.4	8013.5	8021.7	8036.4	8067.4
5°	8005.4	7946.6	7954.8	7959.7	7969.5	7980.9	7993.9	8000.5	8013.5	8044.5	8087.0
7.5°	7972.7	7914.0	7925.4	7933.6	7949.9	7977.6	8018.4	8051.1	8070.6	8113.1	8170.2
10°	8026.6	7959.7	7971.1	7967.8	7976.0	8020.1	8083.7	8152.2	8180.0	8235.4	8307.2
12.5°	8171.8	8104.9	8108.2	8083.7	8091.9	8140.8	8212.6	8297.5	8330.1	8388.8	8462.3
15°	8398.6	8307.2	8308.9	8289.3	8282.8	8330.1	8390.5	8468.8	8501.4	8561.8	8630.3
17.5°	8783.7	8698.9	8659.7	8574.8	8545.5	8586.3	8643.4	8708.7	8738.0	8762.5	8824.5
20°	9452.7	9348.3	9261.8	9097.0	8946.9	8914.3	8942.0	9002.4	9002.4	8989.3	9041.5
22.5°	10408.9	10311.0	10182.1	9893.3	9542.5	9366.2	9307.5	9345.0	9315.7	9258.6	9270.0
25°	11574.0	11371.7	11262.3	10909.9	10356.7	9984.7	9775.8	9749.7	9717.1	9624.1	9598.0
27.5°	13014.8	12825.6	12549.8	12057.0	11332.5	10784.2	10395.9	10275.1	10200.1	10027.1	9952.0
30°	14705.3	14416.5	14078.7	13388.5	12491.1	11756.8	11188.9	10975.2	10797.3	10493.8	10356.7
32.5°	16608.0	16284.9	15880.2	14984.4	13889.5	12944.7	12246.3	11882.4	11606.6	11211.8	10955.6
35°	19147.0	18836.9	18037.4	17007.7	15555.5	14380.6	13581.1	13145.4	12807.6	12280.6	11936.3
37.5°	22351.7	21790.4	20739.5	19479.8	17645.8	16164.1	15176.9	14817.9	14414.9	13727.9	13251.4
40°	25080.0	24513.8	23711.0	22288.1	20328.3	18536.7	17263.9	16794.0	16302.8	15380.9	14848.9
42.5°	27175.2	26609.0	26016.6	25067.0	23516.8	21692.5	19610.4	18998.5	18300.1	17148.1	16444.8
45°	28436.5	27803.4	27503.2	27325.3	26791.7	26816.2	22421.9	21243.8	20294.1	18998.5	18133.6
47.5°	28803.7	28131.4	28193.4	28740.0	29564.1	30510.5	25713.1	23546.2	22315.8	20733.0	19882.9
50°	27619.0	27123.0	27803.4	29458.0	31740.8	33372.6	29353.6	26083.5	24371.8	22643.8	21617.4
52.5°	23906.8	23897.0	25403.1	28669.9	33046.2	35934.4	33087.0	28996.2	26517.6	24507.3	23433.6
55°	18902.2	18897.3	21136.1	25439.0	32535.5	36900.4	36226.5	32437.6	28741.7	26315.2	25316.6
57.5°	13262.9	13711.6	16297.9	20315.3	28821.6	36200.4	38156.9	36038.8	30924.9	28082.4	27131.1
60°	8661.3	8844.1	11497.3	15859.0	22611.2	32473.5	38967.8	39315.4	33029.9	29624.4	28976.6
62.5°	6172.9	6212.1	7453.8	11848.1	16110.3	25226.9	38276.0	41617.8	34974.9	31021.2	30872.7
64°	5228.1	5288.5	6124.0	9364.6	13199.2	18814.1	36910.2	42202.0	35975.2	31752.2	31961.1
65°	4730.4	4787.6	5461.5	7892.8	11768.2	15230.8	35244.2	42151.4	36629.5	32181.4	32631.7
67.5°	3878.7	3883.6	4245.8	5420.7	8777.2	8911.0	26992.4	40049.7	37425.8	32830.8	33917.6
70°	3469.1	3487.1	3682.9	4105.5	6553.1	5960.8	15261.8	36092.7	36564.3	32560.0	34028.5
72.5°	2839.2	2891.5	3209.7	3547.4	4702.7	4177.3	7145.4	28753.1	32873.2	30998.4	32205.9
75°	2212.7	2250.2	2557.0	3129.7	3374.5	3123.2	3960.3	18571.0	26346.2	27495.0	27470.5
77.5°	1666.0	1703.5	1966.3	2477.0	3002.4	2320.3	2669.5	9229.2	18207.1	20795.0	19783.3
80°	1259.7	1258.1	1489.8	1866.7	2450.9	1741.1	1803.1	4183.8	10407.3	12438.8	10981.7
82.5°	868.1	886.0	1094.9	1431.0	1697.0	1675.8	1263.0	2165.3	4603.2	5234.7	5038.8
85°	608.6	600.5	775.1	943.2	1119.4	1212.4	845.2	1217.3	1992.4	1042.7	928.5
87.5°	339.4	337.8	460.2	520.5	558.1	489.5	504.2	473.2	783.2	411.2	264.3
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°	8056.0	8056.0	8056.0	8056.0	8056.0	8056.0	8056.0	8056.0	8056.0	8056.0
2.5°	8059.2	8106.5	8149.0	8188.1	8201.2	8238.7	8281.1	8290.9	8302.3	8215.9
5°	8100.0	8194.7	8299.1	8385.6	8462.3	8543.8	8643.4	8663.0	8705.4	8596.1
7.5°	8214.2	8354.6	8524.3	8667.9	8796.8	8914.3	9041.5	9088.9	9116.6	9010.5
10°	8367.6	8570.0	8782.1	8999.1	9155.8	9286.3	9387.5	9389.1	9418.5	9317.3
12.5°	8540.6	8790.2	9061.1	9301.0	9459.3	9526.2	9545.7	9488.6	9490.3	9380.9
15°	8713.5	9005.6	9333.6	9562.1	9635.5	9594.7	9542.5	9467.4	9454.4	9338.5
17.5°	8924.0	9235.7	9562.1	9741.6	9679.5	9558.8	9495.2	9405.4	9395.6	9274.9
20°	9128.0	9470.7	9780.7	9832.9	9625.7	9451.1	9361.4	9227.5	9203.1	9077.4
22.5°	9336.9	9686.1	9974.9	9841.1	9498.4	9225.9	9057.8	8876.7	8835.9	8725.0
25°	9607.7	9908.0	10141.3	9775.8	9242.2	8809.8	8556.9	8367.6	8346.4	8259.9
27.5°	9965.1	10205.0	10307.8	9632.2	8829.4	8235.4	7922.1	7749.2	7773.7	7666.0
30°	10304.5	10523.2	10459.5	9379.3	8238.7	7491.4	7225.4	7096.5	7138.9	7032.8
32.5°	10784.2	10906.6	10601.5	9010.5	7555.0	6784.8	6559.6	6378.5	6339.4	6314.9
35°	11663.8	11618.1	10766.3	8578.1	6868.0	6125.6	5799.2	5495.7	5423.9	5304.8
37.5°	12869.6	12642.8	10914.8	8109.8	6218.6	5454.9	5014.4	4670.1	4552.6	4459.6
40°	14268.0	13837.2	11076.3	7546.8	5614.9	4789.2	4386.1	4023.9	3896.6	3859.1
42.5°	15795.3	15020.3	11157.9	6781.6	5066.6	4371.5	3908.0	3578.4	3434.8	3364.7
45°	17412.4	16144.5	10999.6	5937.9	4639.1	4061.4	3560.5	3154.2	2991.0	2969.8
47.5°	19005.0	17040.4	10557.4	5200.4	4330.7	3831.4	3172.1	2904.5	2808.2	2777.2
50°	20798.3	17784.4	9881.9	4554.2	4058.2	3478.9	2982.8	2787.0	2708.7	2687.5
52.5°	22678.1	18409.4	9095.4	4058.2	3722.0	3270.0	2886.6	2676.1	2617.3	2599.4
55°	24673.7	19013.2	8245.2	3606.2	3319.0	3178.7	2798.5	2583.1	2542.3	2532.5
57.5°	26899.4	19713.2	7450.6	3113.4	3072.6	3090.5	2733.2	2517.8	2486.8	2480.3
60°	29182.2	20591.1	6691.8	2712.0	2878.4	3005.7	2666.3	2432.9	2375.8	2356.2
62.5°	31549.9	21560.3	5809.0	2393.8	2684.2	2891.5	2565.1	2295.9	2242.0	2215.9
64°	32863.5	22066.2	5167.8	2233.9	2573.3	2798.5	2477.0	2191.4	2152.3	2126.2
65°	33596.1	22345.2	4650.5	2142.5	2493.3	2726.7	2406.8	2113.1	2096.8	2067.4
67.5°	34637.2	22446.4	3477.3	1948.3	2266.5	2503.1	2196.3	1935.3	1976.0	1922.2
70°	33868.6	21486.9	2506.4	1768.8	2015.2	2246.9	2003.8	1749.2	1799.8	1711.7
72.5°	30861.3	18613.4	1892.8	1574.6	1759.0	1984.2	1781.9	1542.0	1504.5	1444.1
75°	24787.9	13840.5	1499.6	1388.6	1515.9	1713.3	1556.7	1320.1	1238.5	1209.1
77.5°	17463.0	8183.2	1212.4	1189.5	1287.5	1427.8	1331.5	1122.6	1016.6	1010.1
80°	9516.4	3599.6	988.8	980.7	1041.1	1166.7	1117.7	930.1	815.9	788.1
82.5°	3599.6	1542.0	750.6	758.8	802.8	902.4	874.6	708.2	651.1	540.1
85°	917.0	760.4	487.9	491.2	483.0	594.0	584.2	461.8	393.3	360.6
87.5°	367.1	283.9	182.8	199.1	189.3	274.1	279.0	218.7	133.8	115.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)