

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: P639103

Luminaire Tested: **USSL-M-C099-D-U-T2-BZ-7030**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-C099-D-U-T2-BZ-7030
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67208 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 486.6
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

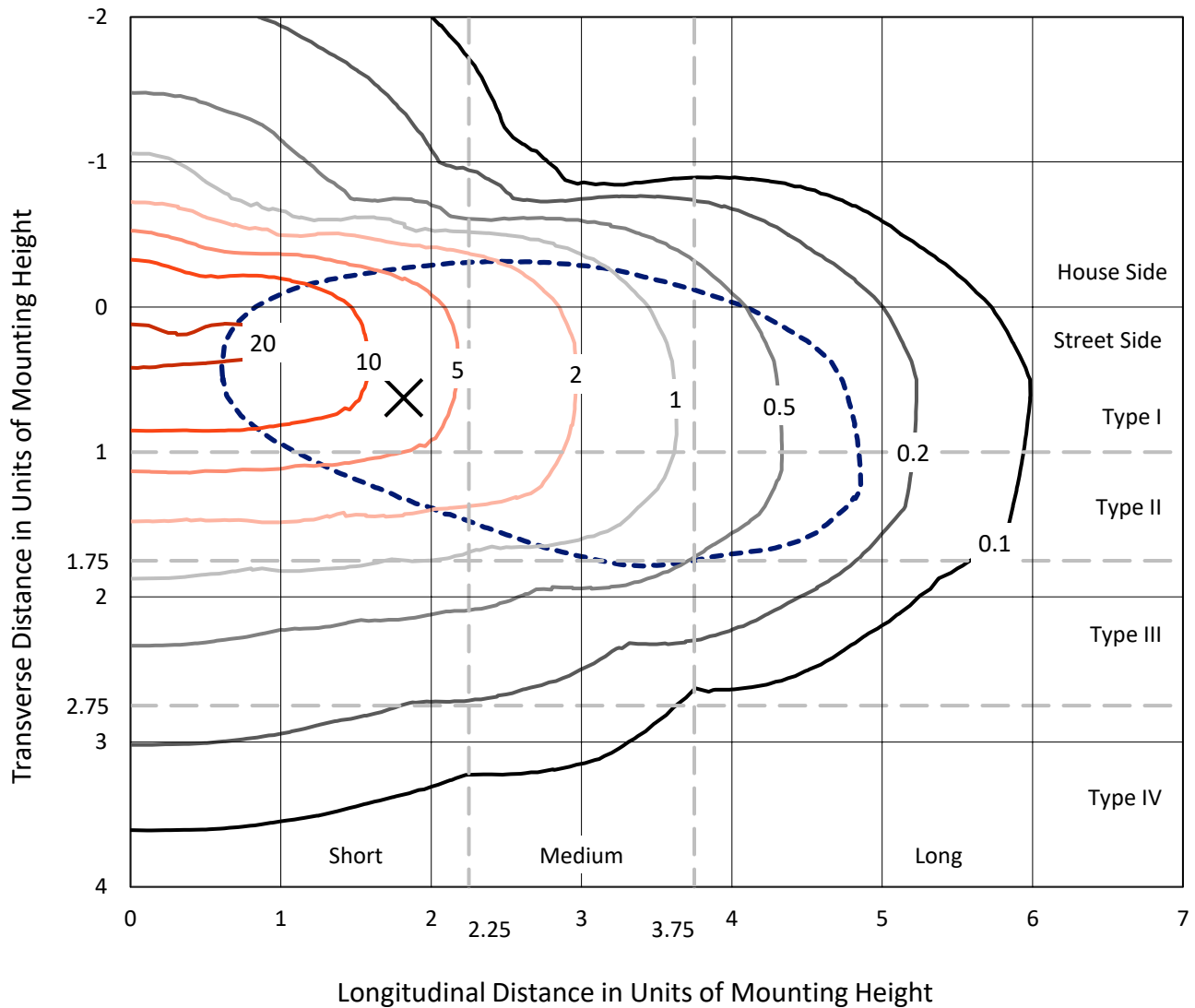


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

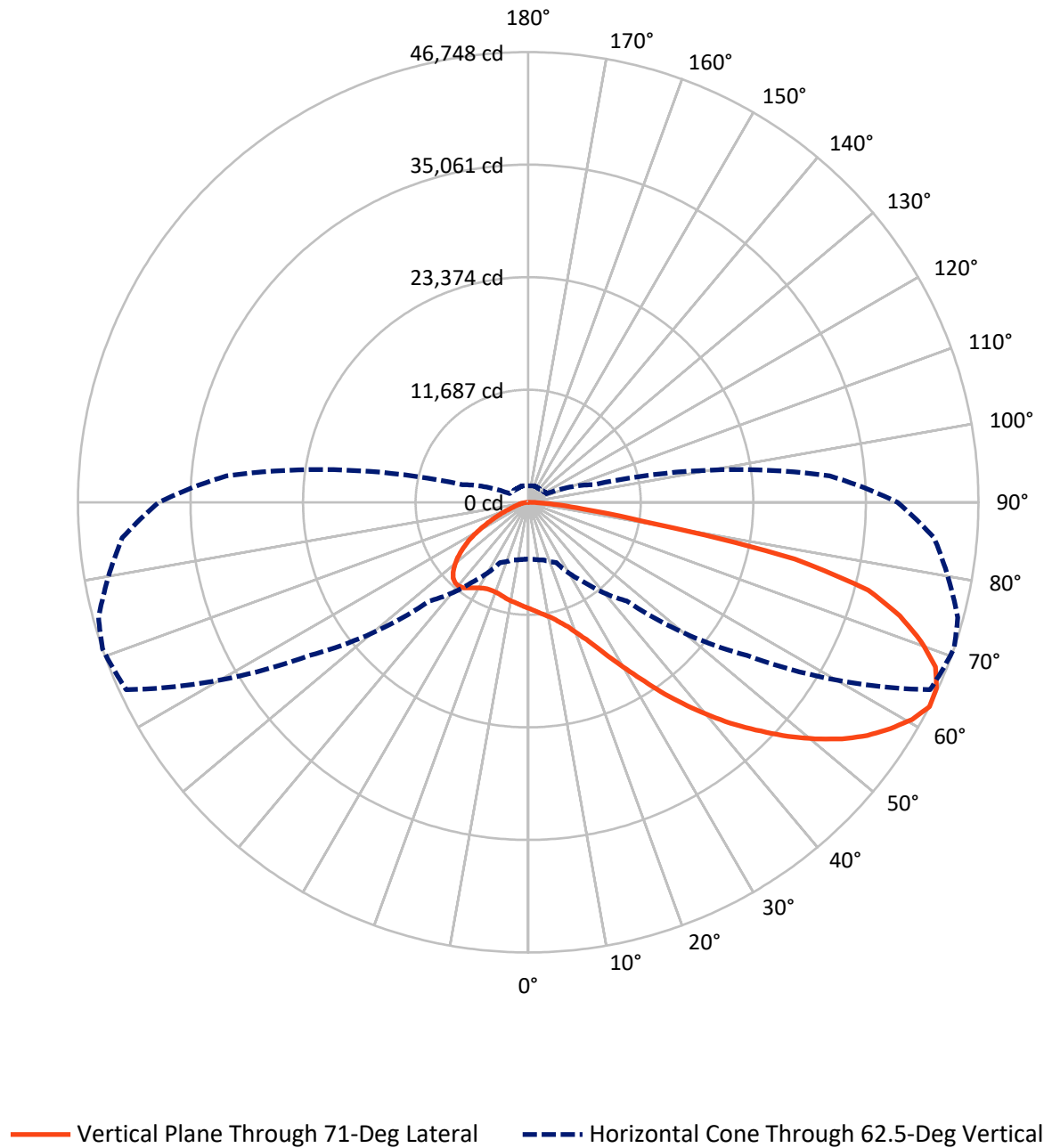


Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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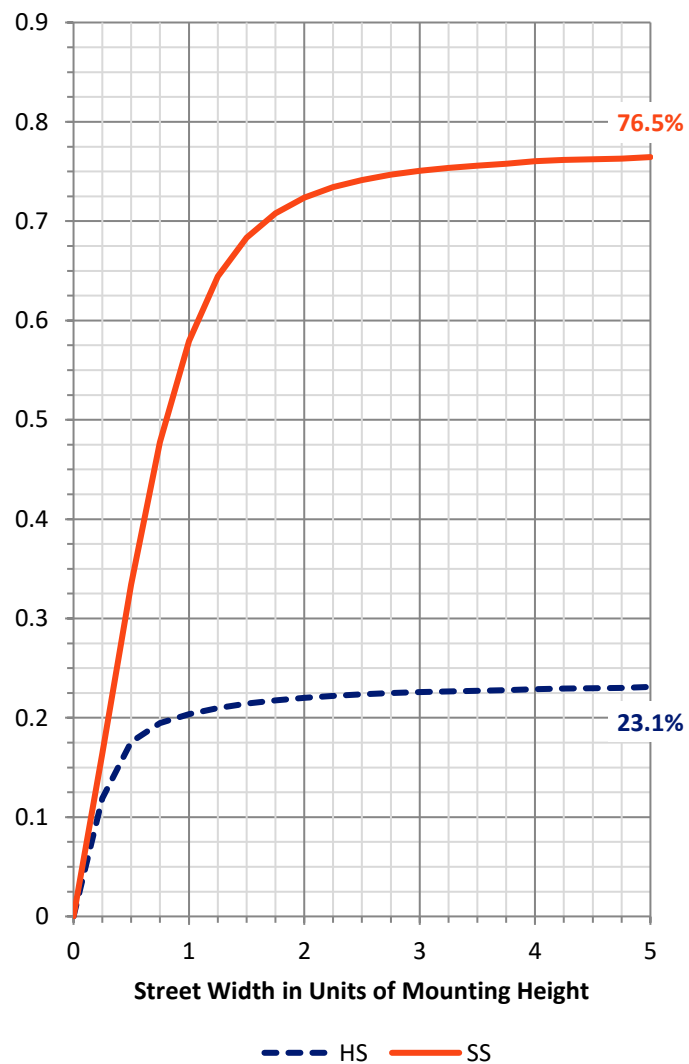
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15806.4	0.0	15806.4
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	51401.6	0.0	51401.6
	% Fixture	76.5	0.0	76.5
Total	Lumens	67208.0	0.0	67208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1065.8	1.6
10°-20°	3266.5	4.9
20°-30°	5656.9	8.4
30°-40°	8420.8	12.5
40°-50°	11332.5	16.9
50°-60°	13410.7	20.0
60°-70°	13597.1	20.2
70°-80°	9076.0	13.5
80°-90°	1381.7	2.1
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°	67208.0	100.0
0°-180°	67208.0	100.0

Coefficient of Utilization



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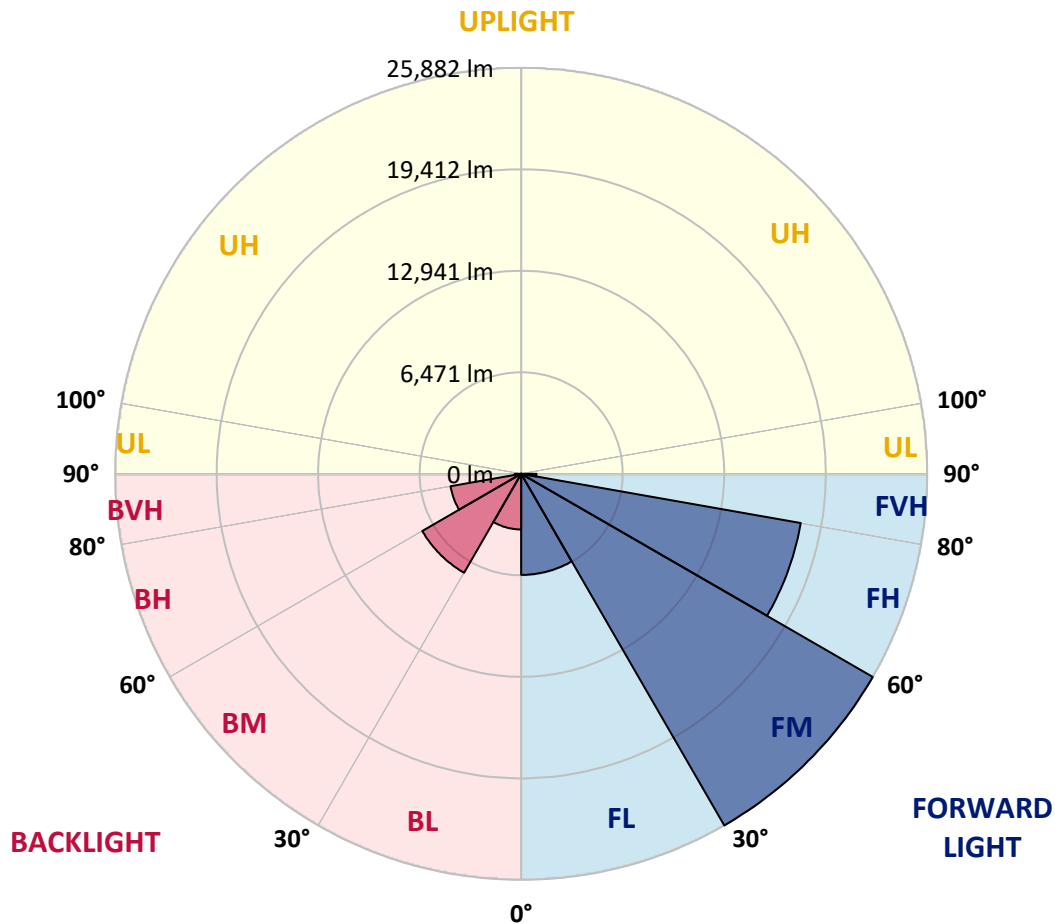
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6443.0	9.6			
FM	(30°-60°)	25882.4	38.5			
FH	(60°-80°)	18099.8	26.9			G5
FVH	(80°-90°)	976.4	1.5			G5
BL	(0°-30°)	3546.2	5.3	B4/5000		
BM	(30°-60°)	7281.6	10.8	B4/8500		
BH	(60°-80°)	4573.3	6.8	B4/5000		G4/5000
BVH	(80°-90°)	405.3	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1
2.5°	11609.1	11585.1	11635.8	11609.1	11553.1	11455.6	11386.2	11327.5	11236.7	11198.0	11123.3
5°	12281.9	12292.6	12343.3	12227.2	12125.7	11949.5	11804.0	11651.9	11498.4	11402.2	11216.7
7.5°	12973.4	12997.4	13001.4	12895.9	12730.4	12519.5	12263.2	12029.6	11781.3	11661.2	11356.9
10°	13572.7	13591.4	13578.0	13520.6	13344.4	13064.1	12761.1	12407.4	12091.0	11917.5	11497.0
12.5°	14149.4	14188.1	14145.4	14046.6	13863.7	13586.1	13300.4	12871.9	12500.8	12265.9	11667.9
15°	14771.4	14751.4	14686.0	14547.1	14411.0	14182.7	13854.4	13465.9	13033.4	12721.1	11961.5
17.5°	15266.6	15312.0	15276.0	15147.8	14983.6	14760.7	14543.1	14132.0	13644.8	13351.1	12403.4
20°	15721.8	15755.2	15732.5	15669.7	15629.7	15486.9	15306.7	14962.3	14499.1	14114.7	12970.7
22.5°	16043.5	16094.2	16183.7	16257.1	16314.5	16283.8	16211.7	16012.8	15488.2	15153.2	13748.9
25°	16227.7	16278.4	16525.4	16793.7	17072.7	17236.9	17319.6	17292.9	16749.6	16434.6	14851.5
27.5°	16337.2	16399.9	16743.0	17235.5	17766.8	18185.9	18571.7	18697.2	18339.4	18033.8	16182.3
30°	16369.2	16437.3	16836.4	17506.5	18398.2	19197.7	19830.5	20343.0	20100.1	19703.6	17821.5
32.5°	16181.0	16250.4	16696.2	17642.6	18894.7	20185.5	21101.2	22054.3	22151.8	21786.0	19806.4
35°	15672.4	15767.2	16358.5	17598.6	19360.6	21172.0	22333.3	23860.4	24459.7	24151.4	21810.0
37.5°	15037.0	15078.4	15845.9	17325.0	19600.9	21963.5	23722.9	26038.8	26790.3	26536.7	23967.1
40°	14304.2	14336.2	15187.9	16847.1	19663.6	22621.6	25024.3	28119.8	29158.4	28717.9	25972.1
42.5°	13340.4	13536.7	14379.0	16238.4	19516.8	23110.2	26225.7	30594.6	31593.1	31271.4	27878.2
45°	12502.2	12560.9	13417.9	15282.6	19091.0	23486.6	27333.6	32750.4	33897.1	33560.7	30246.3
47.5°	11683.9	11683.9	12492.8	14200.1	18278.0	23629.4	28424.2	34986.3	36317.1	35928.7	32328.6
50°	9493.4	9920.6	11527.7	13275.0	17034.0	23377.1	29564.1	37327.6	38614.4	38231.3	34238.8
52.5°	7855.6	7905.0	9323.9	12243.2	15660.4	22585.6	30526.6	39847.8	40808.9	40230.9	36171.6
55°	7220.2	7241.5	7815.5	10705.5	14404.3	21244.1	31060.5	41968.9	42741.7	42093.0	37928.3
57.5°	6801.0	6851.8	7124.1	8611.1	13082.8	19189.7	31182.0	43951.1	44335.5	43613.4	39508.7
60°	6272.4	6311.1	6729.0	7551.2	11606.5	16566.8	30405.1	45450.1	45798.5	45113.8	41031.8
62.5°	5900.0	5936.1	6199.0	6902.5	10118.1	14487.1	27728.7	46050.8	46747.6	46175.0	42299.9
65°	5470.2	5522.3	5771.9	6400.6	9051.6	13006.7	25380.7	45239.2	46584.8	46421.9	42996.7
67.5°	4973.6	5012.3	5272.6	5807.9	7925.0	11874.8	22773.8	43893.7	45609.0	45667.7	42488.1
70°	4449.0	4462.4	4720.0	5145.8	6510.0	10498.6	18830.7	41645.8	43262.3	43253.0	40249.6
72.5°	3803.0	3849.7	4108.7	4503.8	5446.2	8804.6	14736.7	37688.0	40361.7	40528.6	36634.8
75°	3148.9	3190.3	3405.2	3777.6	4453.0	7130.7	10465.2	30239.6	36465.3	36921.8	31804.0
77.5°	1920.8	2000.9	2153.1	2568.2	3411.9	5602.3	6682.2	17992.4	28329.4	30031.3	25219.2
80°	850.3	1172.0	1523.1	1748.6	2074.3	3784.3	3638.8	8063.8	12301.9	16661.5	16138.3
82.5°	261.6	336.4	954.4	1123.9	1238.7	1583.1	1687.2	3996.5	5681.1	6459.3	7321.6
85°	110.8	141.5	395.1	516.6	555.3	417.8	660.7	1796.7	2664.4	3024.8	2847.2
87.5°	29.4	33.4	106.8	149.5	153.5	133.5	172.2	604.7	891.7	1039.8	901.0
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°	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1
2.5°	11069.9	10993.8	10901.7	10773.5	10674.8	10584.0	10549.3	10449.2	10414.5	10423.8	10407.8
5°	11100.6	10977.8	10757.5	10533.3	10334.4	10174.2	10082.1	9963.3	9943.3	9941.9	9880.5
7.5°	11179.3	10995.1	10650.7	10330.4	10054.1	9833.8	9677.6	9542.8	9514.8	9512.1	9466.7
10°	11254.1	11003.1	10577.3	10172.9	9789.8	9490.7	9279.8	9125.0	9059.6	9023.6	8970.2
12.5°	11356.9	11025.8	10490.5	9992.7	9536.1	9149.0	8896.7	8688.5	8603.1	8527.0	8515.0
15°	11558.4	11123.3	10398.4	9748.4	9251.8	8767.3	8436.2	8234.7	8139.9	8043.8	7990.4
17.5°	11873.4	11314.1	10345.0	9510.8	8891.4	8356.1	7939.7	7731.4	7565.9	7485.8	7452.4
20°	12275.2	11610.5	10357.1	9283.8	8493.6	7903.6	7384.4	7137.4	6927.8	6883.8	6823.7
22.5°	12903.9	12052.3	10454.5	9086.3	8134.5	7397.7	6825.1	6443.3	6189.7	6152.3	6149.6
25°	13770.3	12686.4	10606.7	8886.1	7676.7	6855.8	6164.3	5687.8	5427.5	5332.7	5338.0
27.5°	14935.6	13618.1	10905.7	8705.9	7180.1	6117.6	5318.0	4878.9	4613.2	4529.1	4499.8
30°	16321.2	14724.7	11358.2	8513.6	6591.5	5221.9	4469.1	4095.3	3824.3	3738.9	3729.6
32.5°	18033.8	16139.6	11944.2	8269.4	5918.7	4340.9	3745.6	3406.5	3135.6	2952.7	2990.1
35°	19985.3	17746.8	12643.7	8038.4	5119.1	3672.2	3179.6	2765.8	2490.8	2389.4	2386.7
37.5°	21772.7	19209.8	13349.8	7763.5	4403.7	3195.6	2577.6	2274.6	2090.4	1998.3	2010.3
40°	23524.0	20710.1	13930.4	7336.3	3660.1	2660.3	2033.0	1926.2	1875.5	1830.1	1832.7
42.5°	25291.3	22165.1	14333.6	6710.3	3098.2	2154.4	1736.6	1815.4	1870.1	1855.4	1839.4
45°	27062.6	23605.4	14601.9	5831.9	2580.3	1799.4	1691.2	1820.7	1908.8	1924.8	1908.8
47.5°	29055.6	24981.6	14629.9	4674.6	2198.5	1746.0	1712.6	1788.7	1934.2	1972.9	1947.5
50°	31083.2	26293.8	14312.2	3560.0	2039.6	1788.7	1758.0	1748.6	1891.5	1932.9	1916.8
52.5°	32778.5	27437.7	13574.0	2816.5	1992.9	1843.4	1844.8	1750.0	1824.7	1874.1	1896.8
55°	34541.8	28832.7	12300.6	2465.5	1998.3	1867.4	1918.2	1791.4	1796.7	1783.4	1807.4
57.5°	36014.1	29861.8	10802.9	2341.3	2002.3	1891.5	1907.5	1818.1	1819.4	1747.3	1708.6
60°	37349.0	30877.6	9000.9	2226.5	1992.9	1895.5	1863.4	1846.1	1823.4	1759.3	1720.6
62.5°	38348.8	31440.9	7097.4	2135.8	1963.6	1872.8	1792.7	1815.4	1776.7	1712.6	1715.3
65°	38765.2	31287.4	5338.0	2025.0	1916.8	1843.4	1740.6	1730.0	1699.3	1631.2	1636.5
67.5°	37931.0	29717.7	3883.1	1856.8	1843.4	1795.4	1688.6	1645.9	1603.1	1556.4	1577.8
70°	35477.5	26782.3	2719.1	1611.2	1724.6	1717.9	1645.9	1597.8	1533.7	1461.7	1475.0
72.5°	31491.7	23128.9	1858.1	1336.2	1511.0	1608.5	1572.4	1527.1	1409.6	1217.4	1186.7
75°	26328.5	18462.2	1366.9	1054.5	1224.1	1428.3	1388.2	1341.5	1321.5	1592.5	1587.1
77.5°	20443.2	12641.0	1087.9	843.6	990.5	1046.5	1205.4	1322.8	1991.6	1719.3	1657.9
80°	12478.1	7473.8	879.7	626.0	659.4	734.2	1025.2	1629.8	1876.8	1144.0	1077.2
82.5°	6255.1	3638.8	692.8	424.5	456.5	412.5	735.5	1882.1	1324.2	654.1	610.0
85°	2250.5	1152.0	313.7	205.6	202.9	125.5	415.1	1465.7	851.6	489.9	460.5
87.5°	578.0	210.9	42.7	25.4	17.4	16.0	104.1	730.2	371.1	237.6	194.9
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)