

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: P1210301

Luminaire Tested: **ARCH2-80-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11225 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.3
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

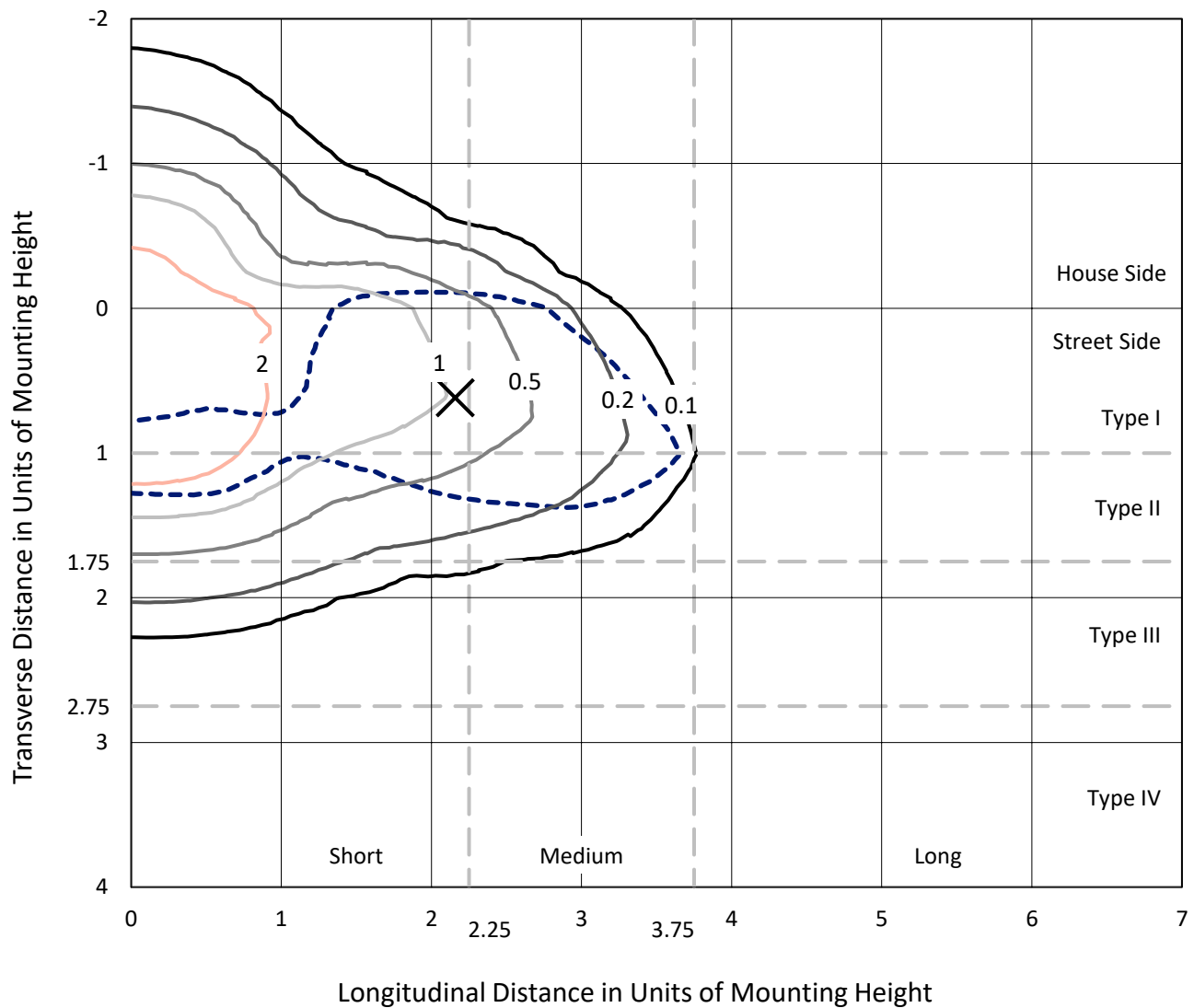


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Iso-Footcandle Lines of Horizontal Illumination

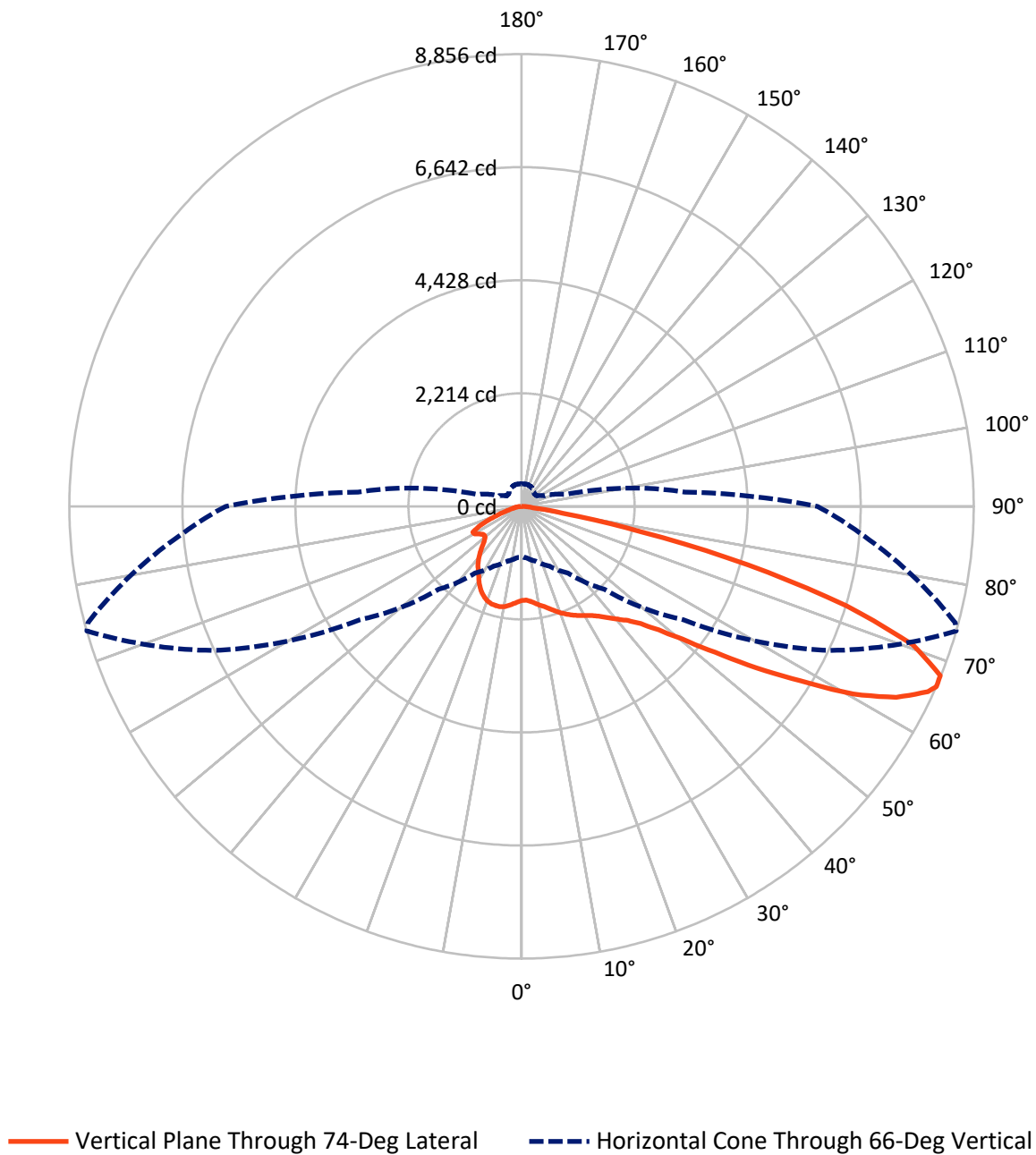
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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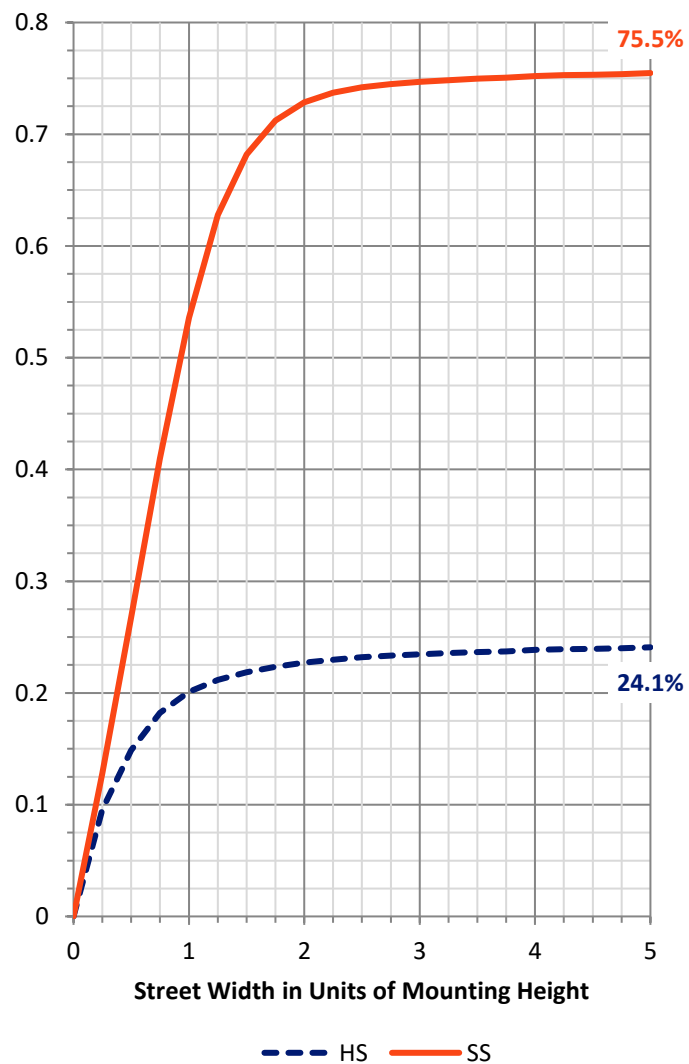
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2733.6	0.0	2733.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	8491.4	0.0	8491.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	11225.0	0.0	11225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	1.6
10°-20°	539.8	4.8
20°-30°	1012.9	9.0
30°-40°	1558.2	13.9
40°-50°	2095.8	18.7
50°-60°	2478.6	22.1
60°-70°	2292.8	20.4
70°-80°	964.6	8.6
80°-90°	106.7	1.0
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°	11225.0	100.0
0°-180°	11225.0	100.0

Coefficient of Utilization



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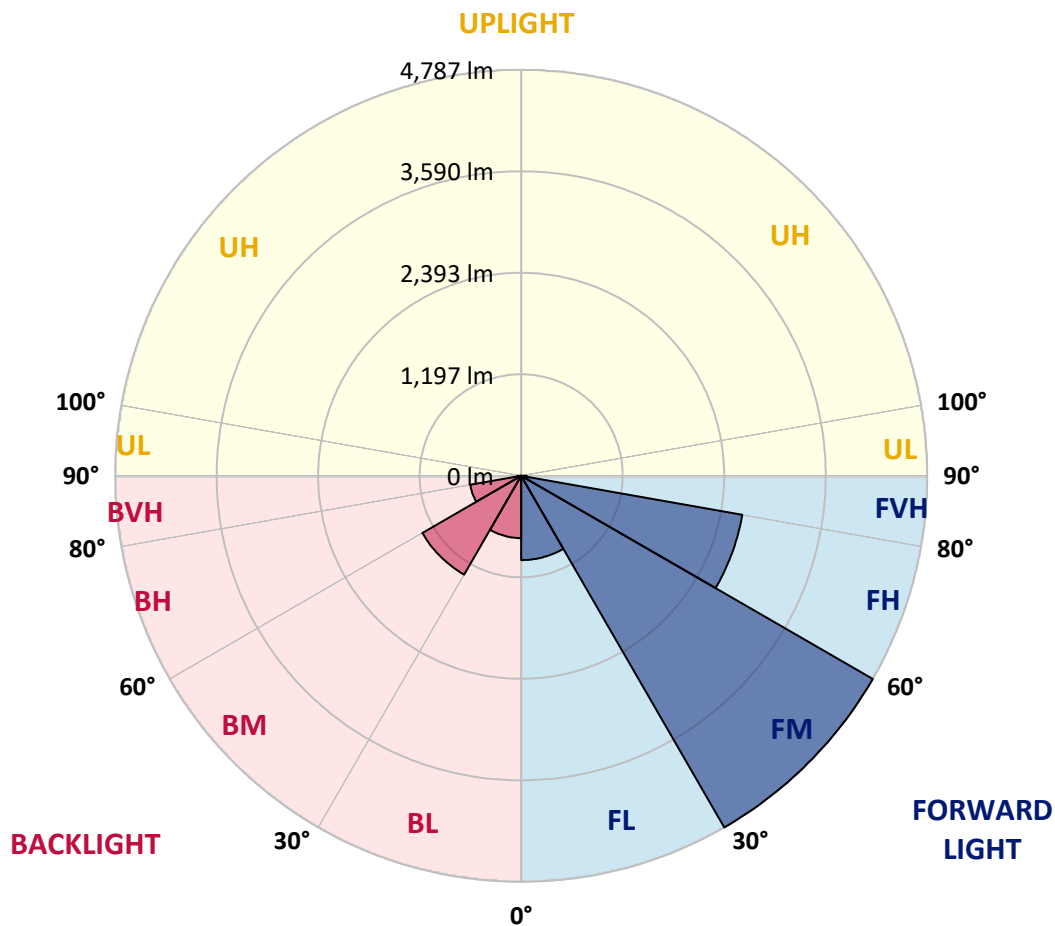
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	993.5	8.9			
FM	(30°-60°)	4786.8	42.6			
FH	(60°-80°)	2647.2	23.6			G2/5000
FVH	(80°-90°)	63.9	0.6			G1/100
BL	(0°-30°)	734.7	6.5	B2/1000		
BM	(30°-60°)	1345.8	12.0	B2/2500		
BH	(60°-80°)	610.2	5.4	B2/1000		G2/1000
BVH	(80°-90°)	42.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2
2.5°	1834.4	1831.5	1837.3	1845.9	1850.3	1843.0	1840.2	1838.7	1838.7	1834.4	1841.6
5°	1747.7	1746.3	1759.3	1775.2	1805.5	1827.2	1856.0	1873.4	1867.6	1858.9	1864.7
7.5°	1635.0	1632.2	1648.0	1678.4	1720.3	1767.9	1838.7	1893.6	1915.3	1912.4	1910.9
10°	1678.4	1675.5	1674.0	1665.4	1679.8	1726.0	1799.7	1896.5	1970.1	1971.6	1973.0
12.5°	1828.6	1835.8	1828.6	1801.2	1769.4	1752.0	1795.4	1903.7	2016.4	2025.0	2061.1
15°	2033.7	2026.5	2012.0	1980.3	1931.1	1879.1	1847.4	1936.9	2082.8	2090.0	2169.5
17.5°	2214.2	2220.0	2211.4	2181.0	2123.3	2055.4	1958.6	1994.7	2153.6	2173.8	2285.0
20°	2410.7	2433.8	2422.2	2384.7	2337.0	2235.9	2114.6	2078.5	2231.6	2246.0	2404.9
22.5°	2637.5	2662.0	2640.3	2604.2	2565.2	2441.0	2285.0	2181.0	2296.6	2326.9	2520.5
25°	2909.0	2932.1	2911.9	2855.6	2806.4	2654.8	2468.5	2296.6	2360.1	2393.4	2614.3
27.5°	3124.2	3141.5	3160.3	3127.1	3052.0	2894.6	2659.1	2416.5	2423.7	2458.3	2701.0
30°	3316.3	3359.6	3375.5	3379.9	3316.3	3140.1	2854.1	2540.7	2478.6	2514.7	2787.7
32.5°	3579.2	3644.2	3618.2	3644.2	3606.6	3371.2	3056.3	2669.2	2549.3	2582.6	2870.0
35°	3963.4	4015.4	3947.5	3927.3	3866.6	3605.2	3251.3	2802.1	2643.2	2679.3	2948.0
37.5°	4376.5	4435.7	4337.5	4256.6	4141.1	3836.3	3418.9	2976.9	2773.2	2802.1	3020.2
40°	4737.6	4786.7	4701.5	4594.6	4401.1	4040.0	3563.3	3099.7	2903.2	2939.3	3104.0
42.5°	5071.2	5103.0	5007.7	4905.1	4646.6	4223.4	3719.3	3229.7	3054.9	3089.5	3171.9
45°	5409.2	5433.8	5300.9	5155.0	4851.7	4390.9	3891.2	3411.6	3277.3	3323.5	3281.7
47.5°	5469.9	5477.1	5454.0	5355.8	5013.5	4551.3	4103.5	3655.7	3616.7	3667.3	3470.9
50°	5049.6	5114.6	5257.6	5354.3	5078.5	4685.6	4315.8	4005.3	4084.7	4149.7	3863.7
52.5°	4233.5	4295.6	4626.4	4993.3	4922.5	4715.9	4544.0	4448.7	4744.8	4822.8	4398.2
55°	3372.6	3427.5	3777.1	4305.7	4418.4	4577.3	4788.1	5014.9	5586.9	5638.9	4984.6
57.5°	2777.6	2807.9	3057.8	3566.2	3746.7	4133.8	4919.6	5688.0	6443.4	6522.9	5494.5
60°	2277.8	2311.0	2497.3	2916.2	3156.0	3499.8	4815.6	6352.4	7466.0	7466.0	6148.8
62.5°	1714.5	1743.4	1916.7	2244.6	2647.6	2962.4	4483.4	6793.0	8237.3	8202.7	6622.5
65°	1177.2	1200.3	1325.9	1544.1	1906.6	2524.8	4029.8	6798.7	8748.7	8702.4	6824.7
66°	988.0	1008.2	1115.1	1291.3	1596.0	2290.8	3869.5	6676.0	8855.5	8790.5	6739.5
67.5°	780.0	794.4	865.2	969.2	1170.0	1854.6	3616.7	6327.9	8845.4	8806.4	6522.9
70°	557.5	567.6	619.6	641.3	691.9	1073.2	2872.9	5542.1	8136.2	8147.8	5670.7
72.5°	431.9	447.8	479.5	483.9	472.3	570.5	1743.4	4623.5	6655.7	6651.4	4208.9
75°	348.1	356.8	372.7	381.3	378.4	368.3	738.1	3449.2	4581.6	4635.0	2357.2
77.5°	274.4	273.0	287.4	299.0	307.7	288.9	338.0	2022.1	2402.0	2334.1	885.4
80°	202.2	202.2	222.4	226.8	239.8	242.7	225.3	780.0	824.7	749.6	229.7
82.5°	132.9	132.9	154.5	157.4	170.4	189.2	163.2	234.0	228.2	216.7	104.0
85°	72.2	69.3	76.6	86.7	93.9	111.2	98.2	117.0	119.9	118.4	69.3
87.5°	14.4	13.0	20.2	23.1	26.0	34.7	31.8	47.7	66.4	65.0	30.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2	1840.2
2.5°	1851.7	1850.3	1866.1	1884.9	1906.6	1919.6	1925.4	1935.5	1928.3	1931.1	1939.8
5°	1879.1	1883.5	1906.6	1931.1	1941.3	1934.0	1918.1	1912.4	1899.4	1896.5	1893.6
7.5°	1919.6	1926.8	1949.9	1955.7	1925.4	1874.8	1838.7	1818.5	1796.8	1791.0	1788.2
10°	1986.0	1990.4	1996.1	1936.9	1861.8	1793.9	1749.2	1730.4	1715.9	1704.4	1707.3
12.5°	2069.8	2066.9	2022.1	1899.4	1792.5	1723.2	1692.8	1681.3	1671.2	1663.9	1662.5
15°	2175.2	2155.0	2026.5	1847.4	1727.5	1669.7	1648.0	1643.7	1632.2	1632.2	1630.7
17.5°	2282.1	2230.1	2023.6	1792.5	1665.4	1633.6	1620.6	1617.7	1614.8	1613.4	1617.7
20°	2389.0	2296.6	2000.5	1724.6	1622.0	1603.3	1600.4	1601.8	1598.9	1603.3	1600.4
22.5°	2482.9	2339.9	1957.1	1652.4	1591.7	1590.3	1583.0	1585.9	1596.0	1597.5	1601.8
25°	2555.1	2355.8	1893.6	1585.9	1570.1	1567.2	1575.8	1587.4	1596.0	1597.5	1604.7
27.5°	2614.3	2347.1	1814.2	1533.9	1532.5	1548.4	1574.4	1578.7	1580.2	1580.2	1574.4
30°	2659.1	2328.4	1713.0	1476.2	1483.4	1522.4	1546.9	1546.9	1535.4	1532.5	1541.2
32.5°	2669.2	2303.8	1603.3	1416.9	1428.5	1474.7	1505.1	1494.9	1481.9	1481.9	1487.7
35°	2677.9	2270.6	1515.2	1336.1	1353.4	1408.3	1437.2	1416.9	1402.5	1398.2	1396.7
37.5°	2675.0	2257.6	1435.7	1233.5	1256.6	1310.1	1328.8	1310.1	1288.4	1278.3	1291.3
40°	2677.9	2248.9	1336.1	1120.8	1144.0	1175.7	1200.3	1185.8	1165.6	1139.6	1152.6
42.5°	2695.2	2260.5	1226.3	1011.1	1011.1	1028.4	1070.3	1060.2	1011.1	1001.0	1012.5
45°	2787.7	2322.6	1116.5	901.3	885.4	897.0	940.3	897.0	866.6	866.6	876.7
47.5°	3011.5	2438.1	1019.7	804.5	767.0	790.1	801.6	761.2	738.1	732.3	742.4
50°	3468.0	2669.2	962.0	725.1	678.9	696.2	689.0	687.5	664.4	667.3	673.1
52.5°	4161.3	3119.9	944.6	686.1	628.3	632.6	625.4	628.3	624.0	638.4	642.8
55°	4916.7	3595.1	966.3	691.9	593.6	563.3	566.2	580.6	598.0	621.1	625.4
57.5°	5481.5	3833.4	1022.6	730.9	550.3	504.1	511.3	538.8	572.0	590.8	600.9
60°	5901.8	3804.5	1105.0	741.0	498.3	450.6	463.6	504.1	533.0	548.9	559.0
62.5°	6039.0	3624.0	1125.2	667.3	430.4	400.1	431.9	473.8	486.8	504.1	511.3
65°	5926.3	3368.3	977.9	541.6	378.4	362.5	408.8	440.5	457.9	466.5	468.0
66°	5793.4	3215.2	898.4	492.5	359.7	351.0	400.1	426.1	443.4	442.0	443.4
67.5°	5501.7	2894.6	769.9	423.2	332.2	333.7	385.7	403.0	408.8	404.4	404.4
70°	4509.4	2038.0	551.8	320.7	291.8	312.0	346.7	351.0	364.0	358.2	358.2
72.5°	2780.4	1001.0	369.8	245.5	260.0	291.8	290.3	304.8	335.1	343.8	349.5
75°	1366.4	405.9	244.1	208.0	232.5	244.1	241.2	277.3	320.7	358.2	371.2
77.5°	518.5	202.2	170.4	182.0	187.8	183.4	192.1	251.3	320.7	388.5	401.5
80°	160.3	140.1	134.3	150.2	141.6	134.3	144.4	208.0	271.5	294.7	294.7
82.5°	96.8	109.8	104.0	102.6	95.3	96.8	104.0	148.8	209.4	219.5	219.5
85°	67.9	72.2	59.2	56.3	54.9	53.4	53.4	86.7	124.2	122.8	127.1
87.5°	26.0	28.9	21.7	21.7	20.2	14.4	11.6	14.4	14.4	10.1	7.2
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)