

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: P1210269

Luminaire Tested: **ARCH2-70-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210269
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: ARCH2-70-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10166 lumens
Efficiency: N/A
Efficacy: 138.1 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): 73.6
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

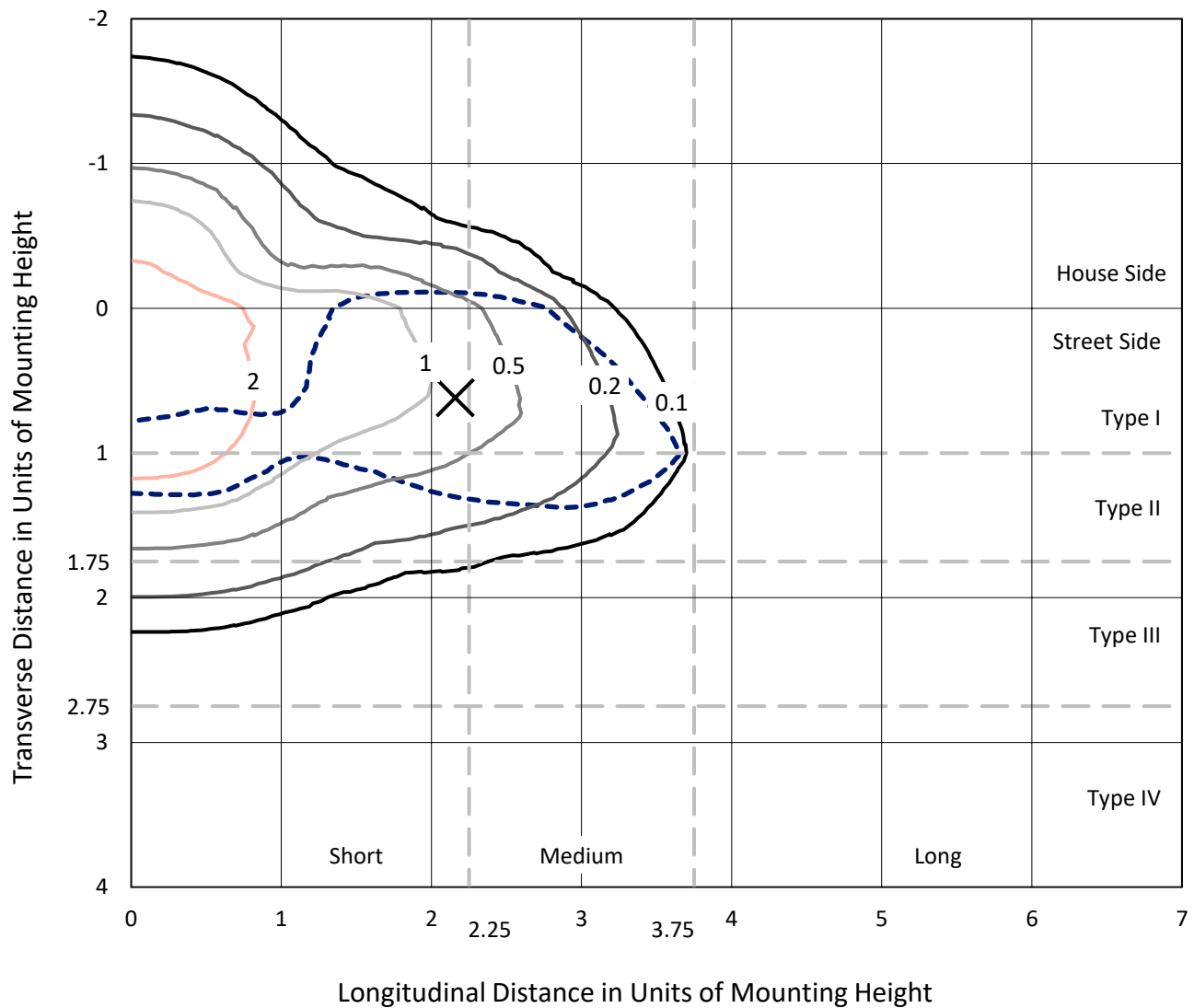


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Iso-Footcandle Lines of Horizontal Illumination

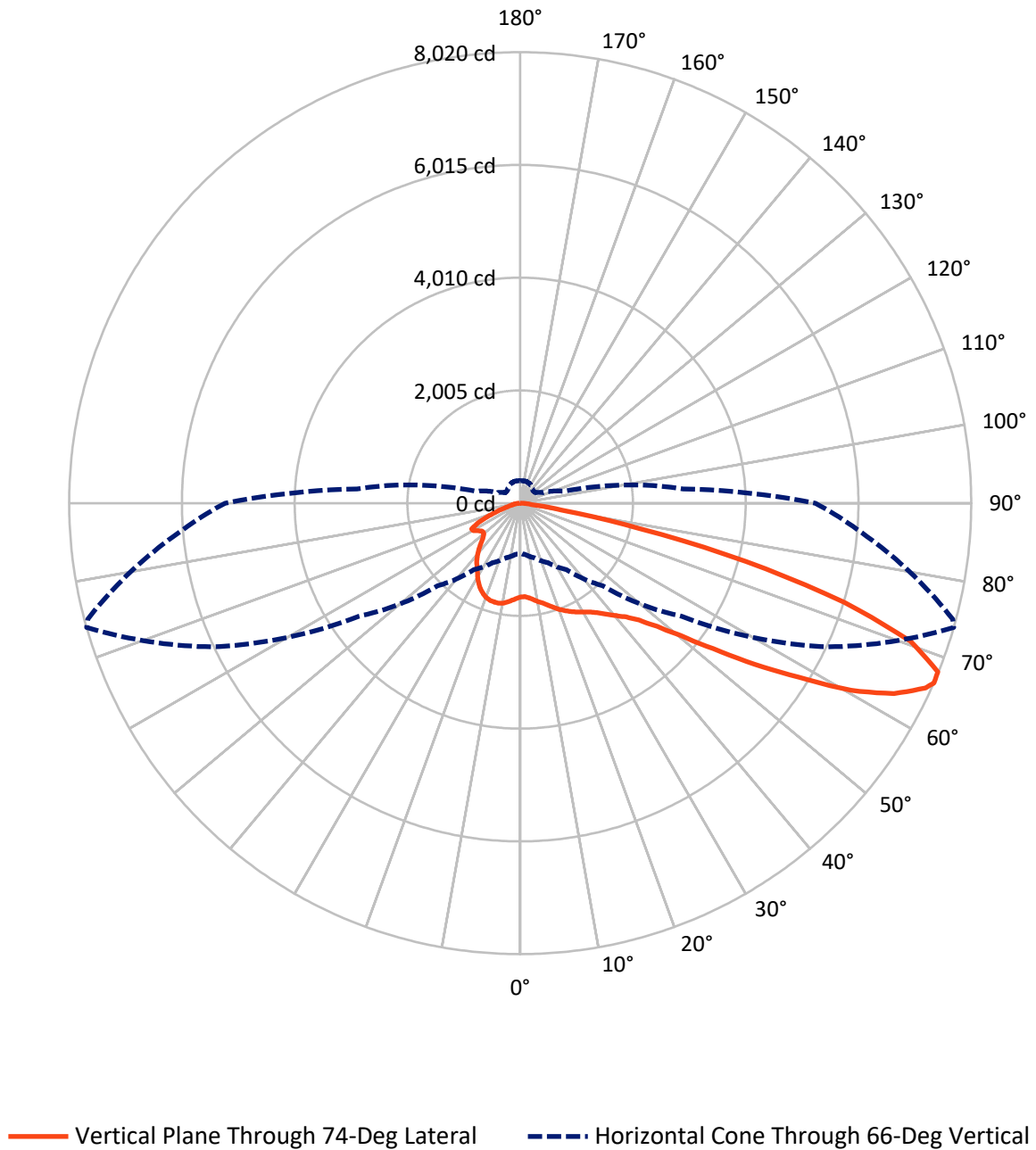
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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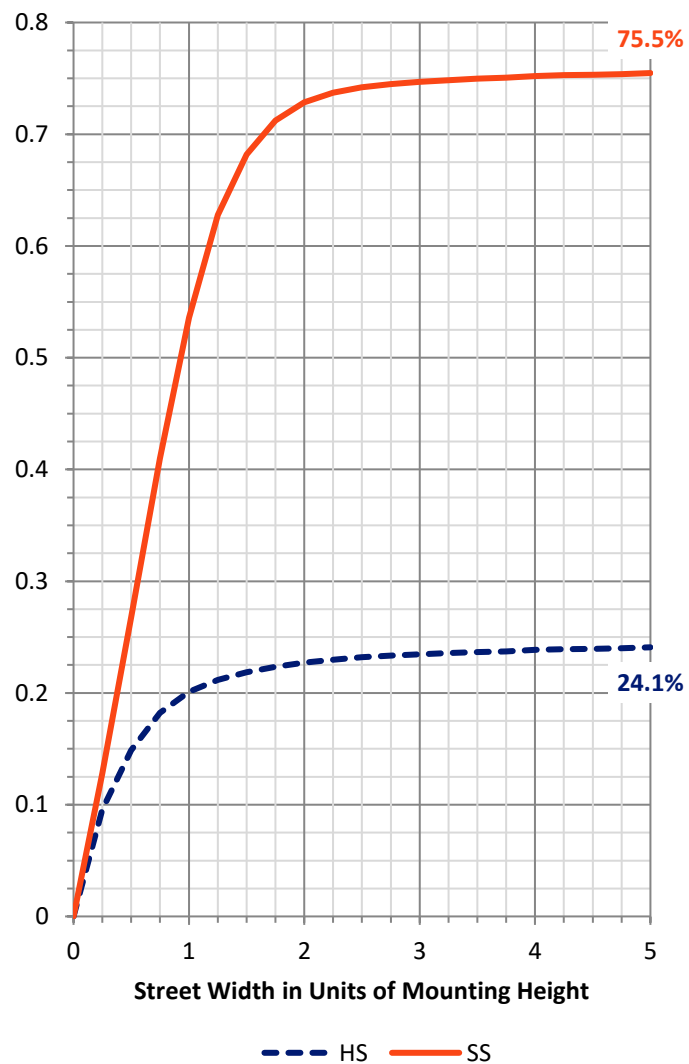
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2475.7	0.0	2475.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	7690.3	0.0	7690.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	10166.0	0.0	10166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	1.6
10°-20°	488.9	4.8
20°-30°	917.4	9.0
30°-40°	1411.2	13.9
40°-50°	1898.1	18.7
50°-60°	2244.7	22.1
60°-70°	2076.5	20.4
70°-80°	873.6	8.6
80°-90°	96.7	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°	10166.0	100.0
0°-180°	10166.0	100.0

Coefficient of Utilization



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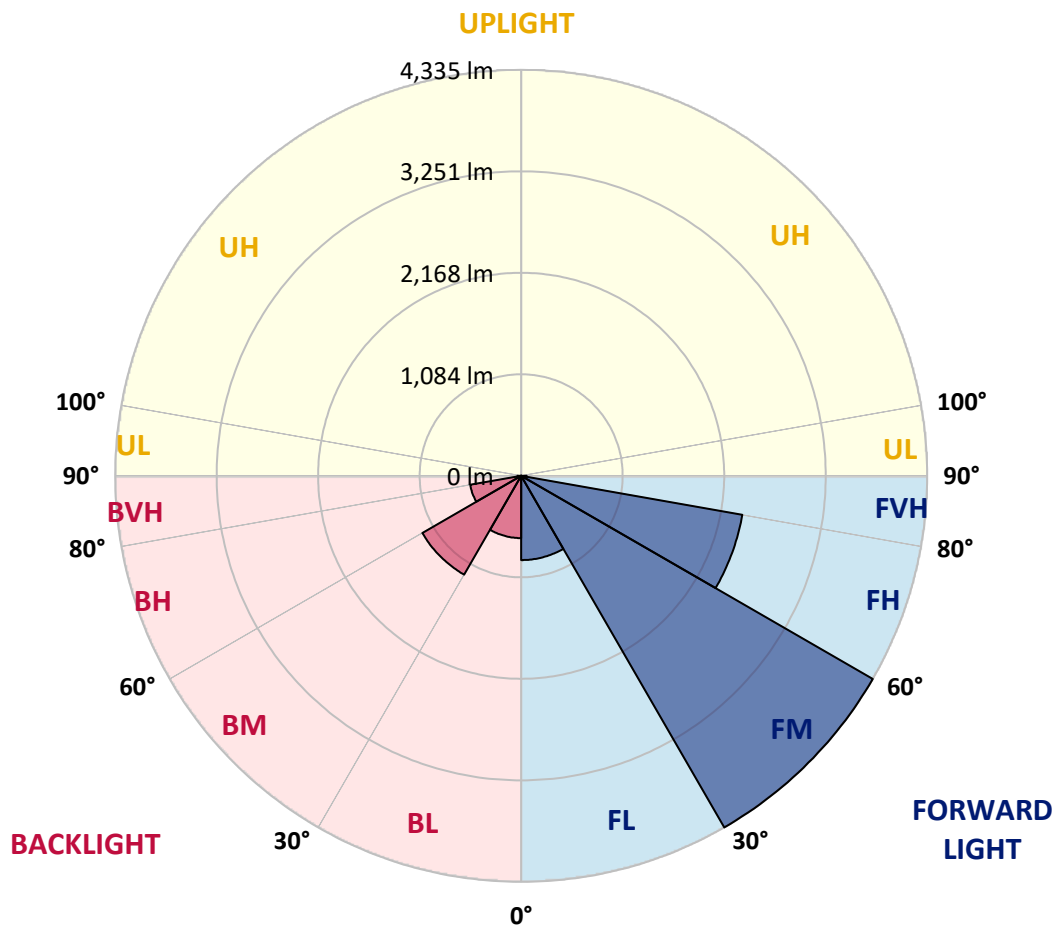
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	899.8	8.9			
FM	(30°-60°)	4335.2	42.6			
FH	(60°-80°)	2397.4	23.6			G2/5000
FVH	(80°-90°)	57.8	0.6			G1/100
BL	(0°-30°)	665.4	6.5	B2/1000		
BM	(30°-60°)	1218.8	12.0	B2/2500		
BH	(60°-80°)	552.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	38.8	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°	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5
2.5°	1661.3	1658.7	1663.9	1671.8	1675.7	1669.2	1666.5	1665.2	1665.2	1661.3	1667.9
5°	1582.8	1581.5	1593.3	1607.7	1635.2	1654.8	1680.9	1696.6	1691.4	1683.6	1688.8
7.5°	1480.8	1478.2	1492.6	1520.0	1558.0	1601.1	1665.2	1714.9	1734.6	1732.0	1730.6
10°	1520.0	1517.4	1516.1	1508.3	1521.3	1563.2	1629.9	1717.6	1784.3	1785.6	1786.9
12.5°	1656.1	1662.6	1656.1	1631.2	1602.4	1586.8	1626.0	1724.1	1826.1	1834.0	1866.7
15°	1841.8	1835.3	1822.2	1793.4	1749.0	1701.9	1673.1	1754.2	1886.3	1892.9	1964.8
17.5°	2005.3	2010.6	2002.7	1975.3	1922.9	1861.5	1773.8	1806.5	1950.4	1968.7	2069.4
20°	2183.3	2204.2	2193.7	2159.7	2116.5	2025.0	1915.1	1882.4	2021.0	2034.1	2178.0
22.5°	2388.6	2410.9	2391.2	2358.5	2323.2	2210.7	2069.4	1975.3	2079.9	2107.4	2282.7
25°	2634.6	2655.5	2637.2	2586.2	2541.7	2404.3	2235.6	2079.9	2137.5	2167.6	2367.7
27.5°	2829.5	2845.2	2862.2	2832.1	2764.1	2621.5	2408.2	2188.5	2195.0	2226.4	2446.2
30°	3003.4	3042.7	3057.1	3061.0	3003.4	2843.9	2584.8	2301.0	2244.7	2277.4	2524.7
32.5°	3241.5	3300.4	3276.8	3300.4	3266.4	3053.2	2768.0	2417.4	2308.8	2338.9	2599.2
35°	3589.5	3636.6	3575.1	3556.8	3501.8	3265.1	2944.6	2537.8	2393.9	2426.6	2669.9
37.5°	3963.6	4017.2	3928.3	3855.0	3750.4	3474.4	3096.3	2696.0	2511.6	2537.8	2735.3
40°	4290.6	4335.1	4257.9	4161.1	3985.8	3658.8	3227.1	2807.2	2629.3	2662.0	2811.2
42.5°	4592.8	4621.6	4535.3	4442.4	4208.2	3824.9	3368.4	2925.0	2766.7	2798.1	2872.6
45°	4898.9	4921.1	4800.8	4668.7	4394.0	3976.7	3524.1	3089.8	2968.1	3010.0	2972.0
47.5°	4953.9	4960.4	4939.5	4850.5	4540.5	4121.9	3716.4	3310.9	3275.5	3321.3	3143.4
50°	4573.2	4632.1	4761.6	4849.2	4599.4	4243.5	3908.7	3627.4	3699.4	3758.2	3499.2
52.5°	3834.1	3890.4	4189.9	4522.2	4458.1	4271.0	4115.3	4029.0	4297.2	4367.8	3983.2
55°	3054.5	3104.2	3420.7	3899.5	4001.5	4145.4	4336.4	4541.8	5059.8	5106.9	4514.3
57.5°	2515.5	2543.0	2769.3	3229.7	3393.3	3743.8	4455.5	5151.4	5835.5	5907.5	4976.1
60°	2062.9	2093.0	2261.7	2641.1	2858.2	3169.6	4361.3	5753.1	6761.7	6761.7	5568.7
62.5°	1552.7	1578.9	1735.9	2032.8	2397.8	2683.0	4060.4	6152.1	7460.2	7428.8	5997.7
65°	1066.1	1087.0	1200.9	1398.4	1726.7	2286.6	3649.7	6157.3	7923.3	7881.4	6180.9
66°	894.8	913.1	1009.9	1169.5	1445.5	2074.7	3504.5	6046.1	8020.1	7961.2	6103.7
67.5°	706.4	719.5	783.6	877.7	1059.6	1679.6	3275.5	5730.9	8010.9	7975.6	5907.5
70°	504.9	514.1	561.2	580.8	626.6	971.9	2601.9	5019.3	7368.6	7379.1	5135.7
72.5°	391.1	405.5	434.3	438.2	427.8	516.7	1578.9	4187.3	6027.8	6023.9	3811.9
75°	315.3	323.1	337.5	345.3	342.7	333.6	668.4	3123.8	4149.4	4197.8	2134.9
77.5°	248.5	247.2	260.3	270.8	278.6	261.6	306.1	1831.4	2175.4	2113.9	801.9
80°	183.1	183.1	201.5	205.4	217.1	219.8	204.1	706.4	746.9	678.9	208.0
82.5°	120.3	120.3	140.0	142.6	154.4	171.4	147.8	211.9	206.7	196.2	94.2
85°	65.4	62.8	69.3	78.5	85.0	100.7	89.0	106.0	108.6	107.3	62.8
87.5°	13.1	11.8	18.3	20.9	23.5	31.4	28.8	43.2	60.2	58.9	27.5
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°	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5
2.5°	1677.0	1675.7	1690.1	1707.1	1726.7	1738.5	1743.7	1752.9	1746.3	1749.0	1756.8
5°	1701.9	1705.8	1726.7	1749.0	1758.1	1751.6	1737.2	1732.0	1720.2	1717.6	1714.9
7.5°	1738.5	1745.0	1766.0	1771.2	1743.7	1697.9	1665.2	1646.9	1627.3	1622.1	1619.5
10°	1798.7	1802.6	1807.8	1754.2	1686.2	1624.7	1584.1	1567.1	1554.0	1543.6	1546.2
12.5°	1874.5	1871.9	1831.4	1720.2	1623.4	1560.6	1533.1	1522.7	1513.5	1507.0	1505.6
15°	1970.0	1951.7	1835.3	1673.1	1564.5	1512.2	1492.6	1488.6	1478.2	1478.2	1476.9
17.5°	2066.8	2019.7	1832.7	1623.4	1508.3	1479.5	1467.7	1465.1	1462.5	1461.2	1465.1
20°	2163.6	2079.9	1811.7	1561.9	1469.0	1452.0	1449.4	1450.7	1448.1	1452.0	1449.4
22.5°	2248.7	2119.2	1772.5	1496.5	1441.5	1440.2	1433.7	1436.3	1445.5	1446.8	1450.7
25°	2314.1	2133.5	1714.9	1436.3	1421.9	1419.3	1427.2	1437.6	1445.5	1446.8	1453.3
27.5°	2367.7	2125.7	1643.0	1389.2	1387.9	1402.3	1425.9	1429.8	1431.1	1431.1	1425.9
30°	2408.2	2108.7	1551.4	1336.9	1343.4	1378.8	1401.0	1401.0	1390.5	1387.9	1395.8
32.5°	2417.4	2086.5	1452.0	1283.3	1293.7	1335.6	1363.1	1353.9	1342.1	1342.1	1347.4
35°	2425.3	2056.4	1372.2	1210.0	1225.7	1275.4	1301.6	1283.3	1270.2	1266.3	1265.0
37.5°	2422.6	2044.6	1300.3	1117.1	1138.1	1186.5	1203.5	1186.5	1166.8	1157.7	1169.5
40°	2425.3	2036.7	1210.0	1015.1	1036.0	1064.8	1087.0	1074.0	1055.7	1032.1	1043.9
42.5°	2441.0	2047.2	1110.6	915.7	915.7	931.4	969.3	960.2	915.7	906.5	917.0
45°	2524.7	2103.5	1011.2	816.3	801.9	812.3	851.6	812.3	784.9	784.9	794.0
47.5°	2727.4	2208.1	923.5	728.6	694.6	715.5	726.0	689.4	668.4	663.2	672.4
50°	3140.8	2417.4	871.2	656.7	614.8	630.5	624.0	622.7	601.7	604.4	609.6
52.5°	3768.7	2825.5	855.5	621.4	569.0	573.0	566.4	569.0	565.1	578.2	582.1
55°	4452.8	3255.9	875.1	626.6	537.6	510.2	512.8	525.9	541.6	562.5	566.4
57.5°	4964.3	3471.8	926.1	661.9	498.4	456.5	463.1	487.9	518.0	535.0	544.2
60°	5345.0	3445.6	1000.7	671.1	451.3	408.1	419.9	456.5	482.7	497.1	506.2
62.5°	5469.3	3282.1	1019.0	604.4	389.8	362.3	391.1	429.1	440.8	456.5	463.1
65°	5367.2	3050.5	885.6	490.5	342.7	328.3	370.2	399.0	414.7	422.5	423.8
66°	5246.9	2911.9	813.7	446.1	325.7	317.9	362.3	385.9	401.6	400.3	401.6
67.5°	4982.6	2621.5	697.2	383.3	300.9	302.2	349.3	365.0	370.2	366.3	366.3
70°	4084.0	1845.8	499.7	290.4	264.2	282.6	313.9	317.9	329.6	324.4	324.4
72.5°	2518.1	906.5	334.9	222.4	235.5	264.2	262.9	276.0	303.5	311.3	316.6
75°	1237.5	367.6	221.1	188.4	210.6	221.1	218.5	251.2	290.4	324.4	336.2
77.5°	469.6	183.1	154.4	164.8	170.1	166.1	174.0	227.6	290.4	351.9	363.7
80°	145.2	126.9	121.7	136.0	128.2	121.7	130.8	188.4	245.9	266.9	266.9
82.5°	87.6	99.4	94.2	92.9	86.3	87.6	94.2	134.7	189.7	198.8	198.8
85°	61.5	65.4	53.6	51.0	49.7	48.4	48.4	78.5	112.5	111.2	115.1
87.5°	23.5	26.2	19.6	19.6	18.3	13.1	10.5	13.1	13.1	9.2	6.5
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)