

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: P1211643

Luminaire Tested: **ARCH4-70-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11984 lumens
Efficiency: N/A
Efficacy: 162.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

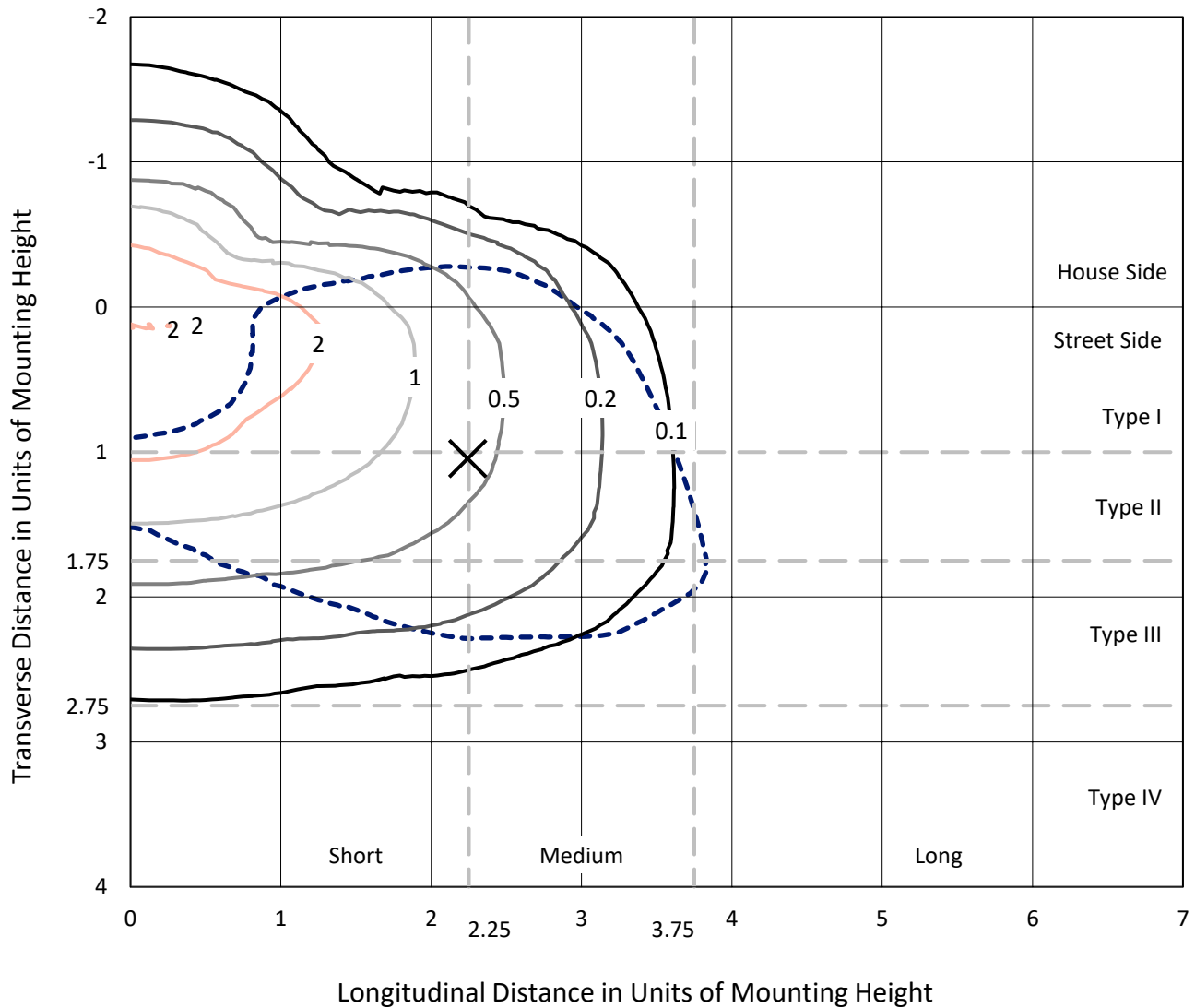
Input Watts (W): 73.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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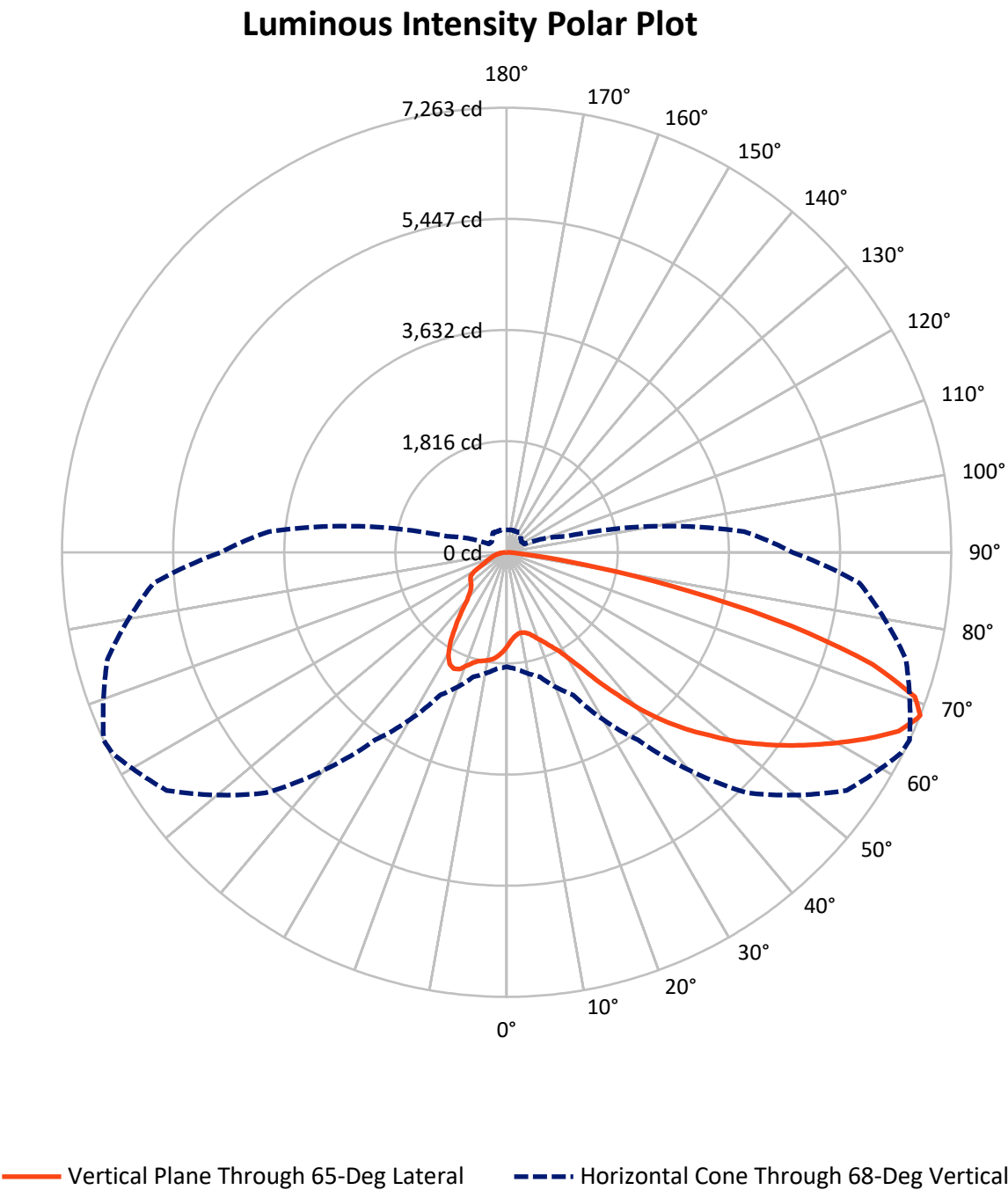
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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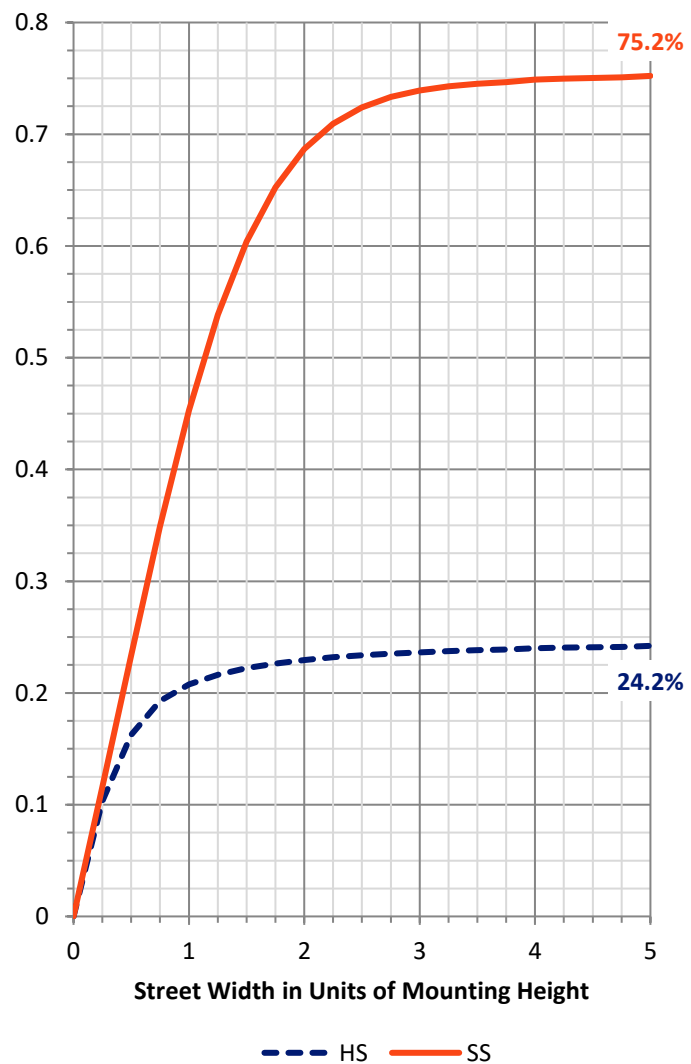
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2938.1	0.0	2938.1
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	9045.9	0.0	9045.9
	% Fixture	75.5	0.0	75.5
Total	Lumens	11984.0	0.0	11984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	1.2
10°-20°	476.5	4.0
20°-30°	862.5	7.2
30°-40°	1356.8	11.3
40°-50°	2020.8	16.9
50°-60°	2650.9	22.1
60°-70°	2898.9	24.2
70°-80°	1434.5	12.0
80°-90°	136.8	1.1
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°	11984.0	100.0
0°-180°	11984.0	100.0

Coefficient of Utilization



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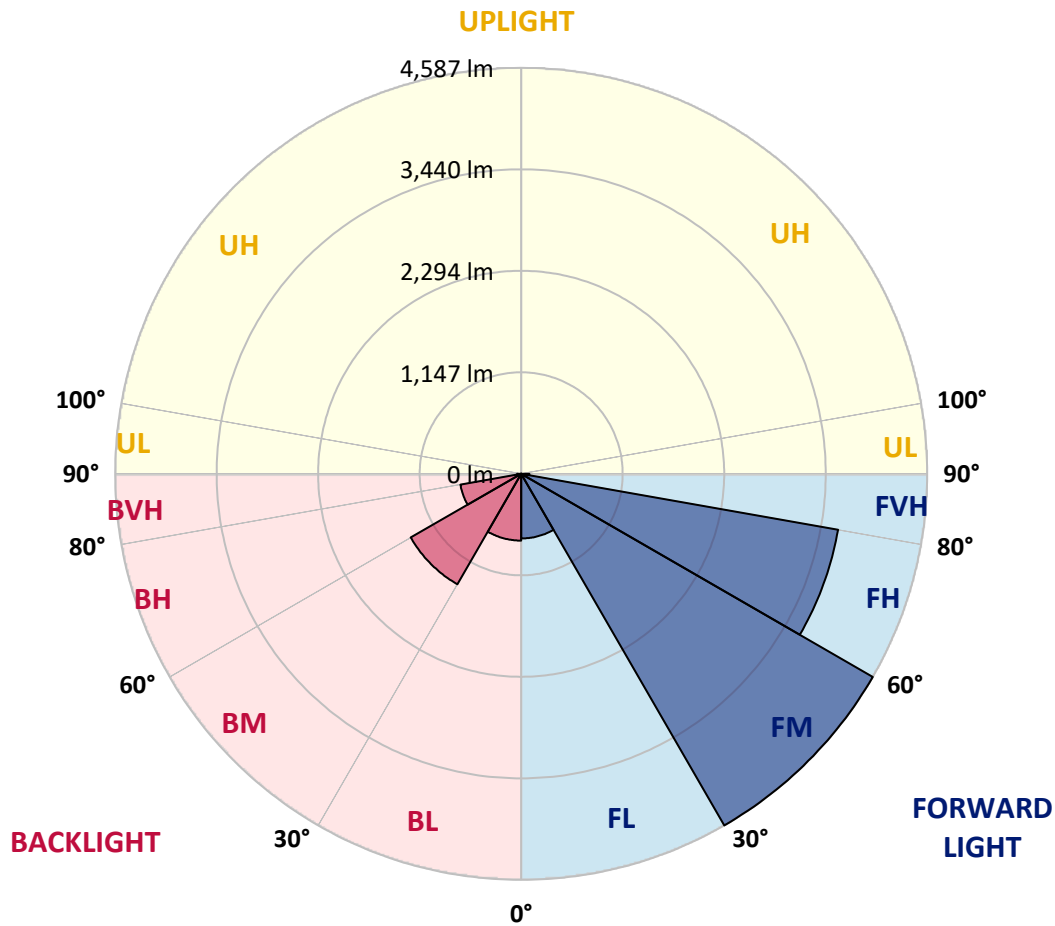
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	730.6	6.1			
FM	(30°-60°)	4587.3	38.3			
FH	(60°-80°)	3636.0	30.3			G2/5000
FVH	(80°-90°)	92.0	0.8			G1/100
BL	(0°-30°)	754.8	6.3	B2/1000		
BM	(30°-60°)	1441.1	12.0	B2/2500		
BH	(60°-80°)	697.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	44.8	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4
2.5°	1336.7	1333.6	1341.3	1349.1	1366.1	1386.1	1414.0	1437.1	1440.2	1483.5	1517.5
5°	1257.9	1253.3	1261.0	1270.3	1278.0	1302.7	1332.1	1366.1	1380.0	1443.3	1516.0
7.5°	1265.6	1264.1	1267.2	1264.1	1264.1	1274.9	1295.0	1329.0	1344.4	1420.1	1523.7
10°	1310.4	1313.5	1315.1	1305.8	1296.5	1291.9	1298.1	1321.2	1332.1	1421.7	1557.7
12.5°	1384.6	1389.2	1390.8	1373.8	1361.4	1341.3	1330.5	1339.8	1347.5	1437.1	1605.6
15°	1485.0	1488.1	1477.3	1466.5	1435.6	1410.9	1384.6	1376.9	1380.0	1469.6	1659.7
17.5°	1602.5	1597.9	1597.9	1571.6	1531.4	1492.8	1449.5	1443.3	1443.3	1522.1	1736.9
20°	1730.8	1735.4	1721.5	1685.9	1645.8	1585.5	1542.2	1514.4	1517.5	1582.4	1831.2
22.5°	1916.2	1923.9	1886.8	1835.8	1774.0	1704.5	1642.7	1597.9	1599.4	1661.2	1928.6
25°	2115.5	2118.6	2095.5	2027.5	1944.0	1845.1	1763.2	1706.0	1704.5	1749.3	2053.7
27.5°	2319.5	2333.4	2287.1	2222.2	2144.9	2021.3	1913.1	1835.8	1823.5	1883.7	2209.8
30°	2529.7	2546.7	2501.9	2438.5	2342.7	2237.6	2109.4	2019.7	2012.0	2092.4	2418.4
32.5°	2741.4	2746.0	2710.5	2657.9	2571.4	2472.5	2369.0	2270.1	2262.3	2393.7	2688.9
35°	2914.5	2928.4	2903.7	2891.3	2827.9	2736.8	2636.3	2579.1	2599.2	2767.7	3039.6
37.5°	3123.1	3137.0	3109.2	3106.1	3086.0	3007.2	2937.6	2942.3	2962.4	3191.1	3409.0
40°	3424.4	3439.9	3368.8	3337.9	3337.9	3260.6	3237.4	3347.2	3373.4	3608.3	3793.8
42.5°	3679.4	3704.1	3662.4	3642.3	3582.0	3528.0	3555.8	3710.3	3755.1	4007.0	4129.1
45°	3803.0	3821.6	3871.0	3929.7	3871.0	3776.8	3881.8	4056.5	4119.8	4374.8	4464.4
47.5°	3869.5	3886.5	3943.6	4101.3	4141.5	4062.6	4211.0	4428.9	4472.1	4739.5	4784.3
50°	3878.7	3932.8	4007.0	4164.6	4348.5	4359.3	4541.7	4807.5	4858.5	5098.0	5065.6
52.5°	3803.0	3824.7	3977.6	4243.4	4447.4	4632.9	4901.7	5170.6	5207.7	5434.9	5314.3
55°	3679.4	3710.3	3863.3	4224.9	4543.2	4892.5	5268.0	5527.6	5569.3	5762.5	5544.6
57.5°	3568.1	3583.6	3747.4	4170.8	4639.0	5152.1	5594.0	5900.0	5927.8	6049.9	5714.6
60°	3444.5	3461.5	3625.3	4054.9	4710.1	5348.3	5934.0	6275.5	6300.3	6352.8	5912.4
62.5°	3124.6	3169.4	3375.0	3863.3	4691.6	5572.4	6297.2	6646.4	6677.3	6620.1	6068.5
65°	2537.4	2600.8	2852.7	3429.1	4518.5	5717.7	6593.9	6987.9	7040.5	6821.0	6110.2
67.5°	1970.3	2015.1	2217.5	2721.3	3911.2	5645.0	6785.5	7222.8	7238.3	6788.6	5878.4
68°	1868.3	1913.1	2106.3	2573.0	3742.8	5558.5	6780.9	7229.0	7263.0	6753.0	5788.8
70°	1429.4	1480.4	1664.3	2038.3	3016.5	5008.4	6498.1	7080.6	7076.0	6323.4	5232.4
72.5°	893.2	922.6	1049.3	1285.7	1995.0	3810.8	5515.2	6244.6	6257.0	5155.2	4013.2
75°	567.1	567.1	561.0	622.8	1023.0	2171.2	4099.7	4807.5	4816.8	3609.9	2529.7
77.5°	493.0	479.0	412.6	349.2	408.0	843.7	2426.1	3104.5	3053.5	1944.0	1200.7
80°	415.7	392.5	338.4	281.2	262.7	264.2	931.8	1576.2	1508.2	700.0	398.7
82.5°	299.8	279.7	255.0	221.0	202.4	157.6	194.7	455.9	445.1	202.4	129.8
85°	162.3	146.8	143.7	145.3	122.1	97.4	81.9	100.4	100.4	88.1	74.2
87.5°	57.2	41.7	49.5	55.6	47.9	40.2	32.5	38.6	40.2	38.6	35.5
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°	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4	1531.4
2.5°	1537.6	1553.0	1590.1	1622.6	1645.8	1665.9	1676.7	1681.3	1692.1	1693.7	1690.6
5°	1550.0	1590.1	1645.8	1693.7	1719.9	1730.8	1733.8	1735.4	1730.8	1733.8	1730.8
7.5°	1582.4	1633.4	1712.2	1753.9	1758.6	1741.6	1743.1	1736.9	1743.1	1749.3	1749.3
10°	1631.9	1696.8	1770.9	1786.4	1766.3	1757.0	1775.6	1812.7	1825.0	1842.0	1842.0
12.5°	1696.8	1774.0	1826.6	1812.7	1794.1	1825.0	1879.1	1916.2	1928.6	1934.7	1930.1
15°	1770.9	1854.4	1880.7	1834.3	1868.3	1934.7	1953.3	1931.6	1900.7	1886.8	1894.6
17.5°	1865.2	1934.7	1919.3	1888.4	1965.6	1974.9	1914.6	1845.1	1795.7	1777.1	1789.5
20°	1964.1	2024.4	1953.3	1967.2	2015.1	1916.2	1801.8	1712.2	1668.9	1661.2	1673.6
22.5°	2069.2	2107.8	1987.3	2058.4	1987.3	1786.4	1648.9	1602.5	1591.7	1604.0	1614.9
25°	2188.2	2183.5	2046.0	2086.2	1883.7	1627.2	1545.3	1542.2	1542.2	1550.0	1565.4
27.5°	2322.6	2250.0	2104.7	2049.1	1704.5	1495.9	1480.4	1482.0	1477.3	1478.9	1486.6
30°	2478.7	2339.6	2169.6	1927.0	1503.6	1397.0	1390.8	1386.1	1375.3	1372.2	1375.3
32.5°	2674.9	2433.9	2236.1	1726.1	1327.4	1295.0	1291.9	1267.2	1240.9	1237.8	1248.6
35°	2923.7	2605.4	2270.1	1474.2	1182.2	1180.6	1169.8	1131.2	1097.2	1097.2	1089.4
37.5°	3208.1	2826.4	2284.0	1228.5	1061.6	1069.4	1038.5	989.0	962.7	947.3	951.9
40°	3498.6	3078.3	2282.4	1013.7	956.6	958.1	934.9	874.6	809.7	771.1	780.4
42.5°	3778.3	3307.0	2242.3	899.4	871.6	866.9	848.4	766.5	712.4	681.5	683.0
45°	4002.4	3543.4	2180.4	831.4	794.3	802.0	760.3	710.8	661.4	633.6	632.0
47.5°	4226.4	3722.7	2081.5	789.7	737.1	723.2	706.2	672.2	635.1	604.2	605.8
50°	4430.4	3875.7	1988.8	761.8	684.6	649.0	652.1	632.0	599.6	571.8	570.2
52.5°	4574.1	3976.1	1937.8	746.4	621.2	582.6	593.4	582.6	551.7	531.6	530.0
55°	4717.9	4053.4	1954.8	726.3	551.7	520.8	539.3	536.2	519.2	513.0	514.6
57.5°	4833.8	4112.1	2015.1	689.2	485.2	466.7	497.6	488.3	476.0	477.5	477.5
60°	4946.6	4187.8	2086.2	604.2	428.1	429.6	459.0	442.0	434.2	448.1	449.7
62.5°	5064.0	4269.7	2027.5	480.6	378.6	389.4	423.4	409.5	412.6	432.7	438.9
65°	5050.1	4262.0	1651.9	394.1	335.3	357.0	408.0	403.3	404.9	412.6	415.7
67.5°	4765.8	3990.0	1135.8	335.3	304.4	330.7	395.6	377.1	378.6	374.0	375.5
68°	4669.9	3894.2	1001.4	326.1	298.2	324.5	389.4	372.4	374.0	369.3	367.8
70°	4147.6	3334.8	633.6	287.4	276.6	307.5	358.5	352.3	350.8	347.7	347.7
72.5°	3161.7	2461.7	333.8	248.8	251.9	281.2	319.9	332.2	324.5	326.1	335.3
75°	2093.9	1480.4	231.8	213.3	221.0	241.1	284.3	309.1	301.3	306.0	301.3
77.5°	1108.0	797.4	185.4	180.8	180.8	194.7	234.9	273.5	273.5	270.4	265.8
80°	363.1	281.2	148.4	142.2	145.3	153.0	188.5	224.1	228.7	222.5	219.4
82.5°	122.1	129.8	111.3	103.5	106.6	112.8	142.2	171.5	173.1	160.7	157.6
85°	75.7	86.5	69.5	68.0	68.0	69.5	86.5	94.3	86.5	77.3	80.4
87.5°	35.5	43.3	32.5	27.8	23.2	20.1	15.5	6.2	6.2	3.1	3.1
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)