

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: P1210854

Luminaire Tested: **ARCH3-90-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10562 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.1
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

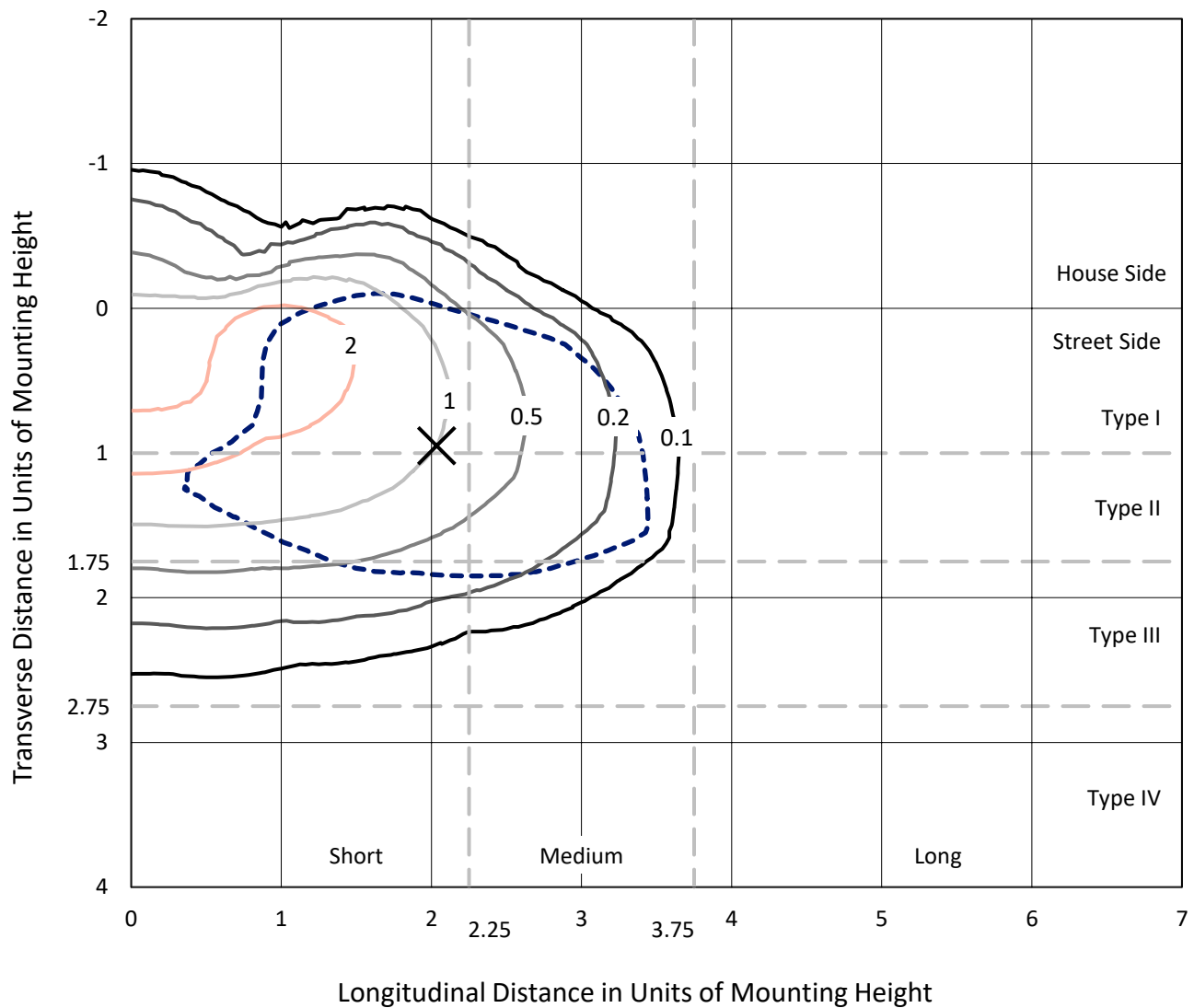


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Iso-Footcandle Lines of Horizontal Illumination

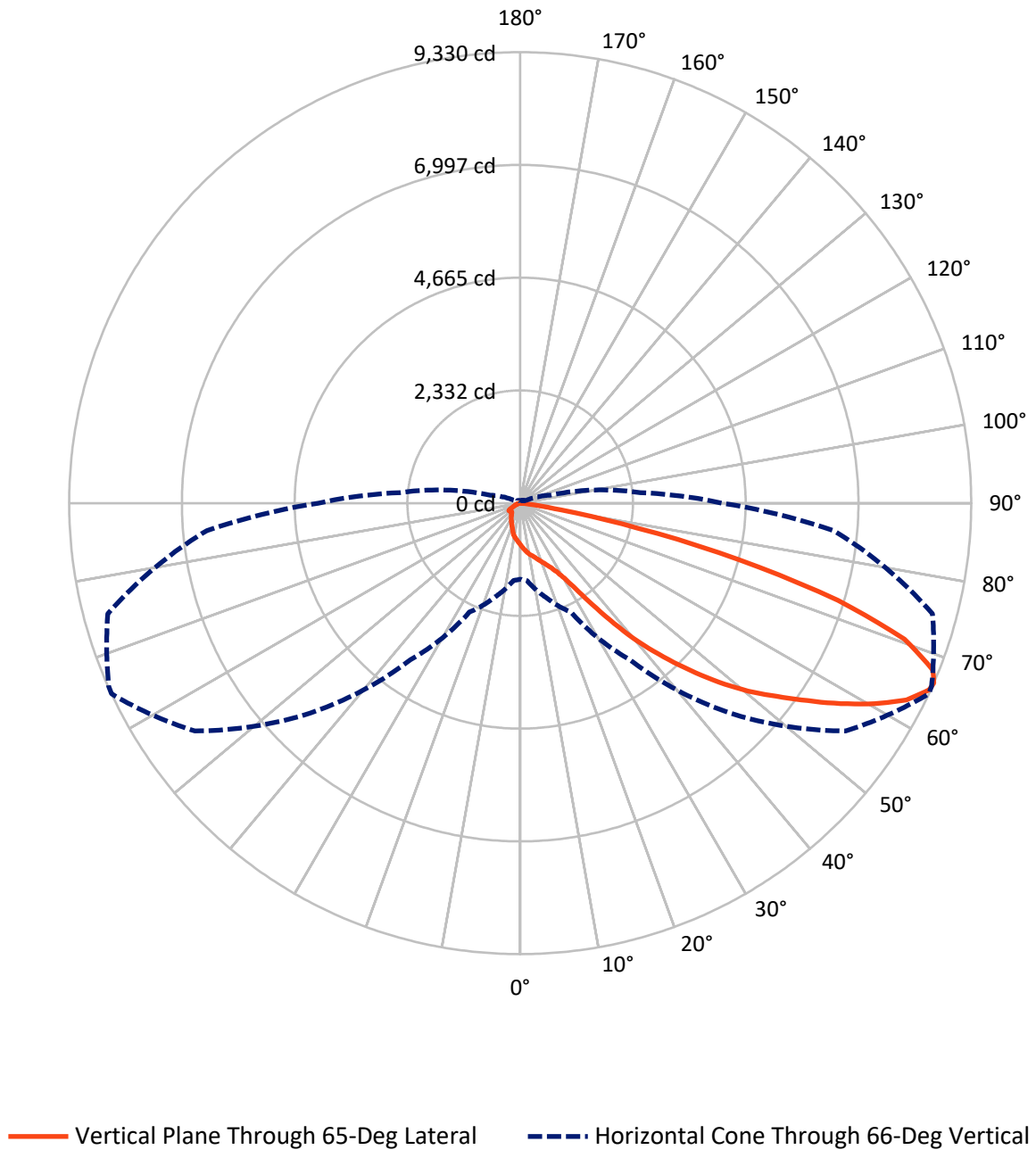
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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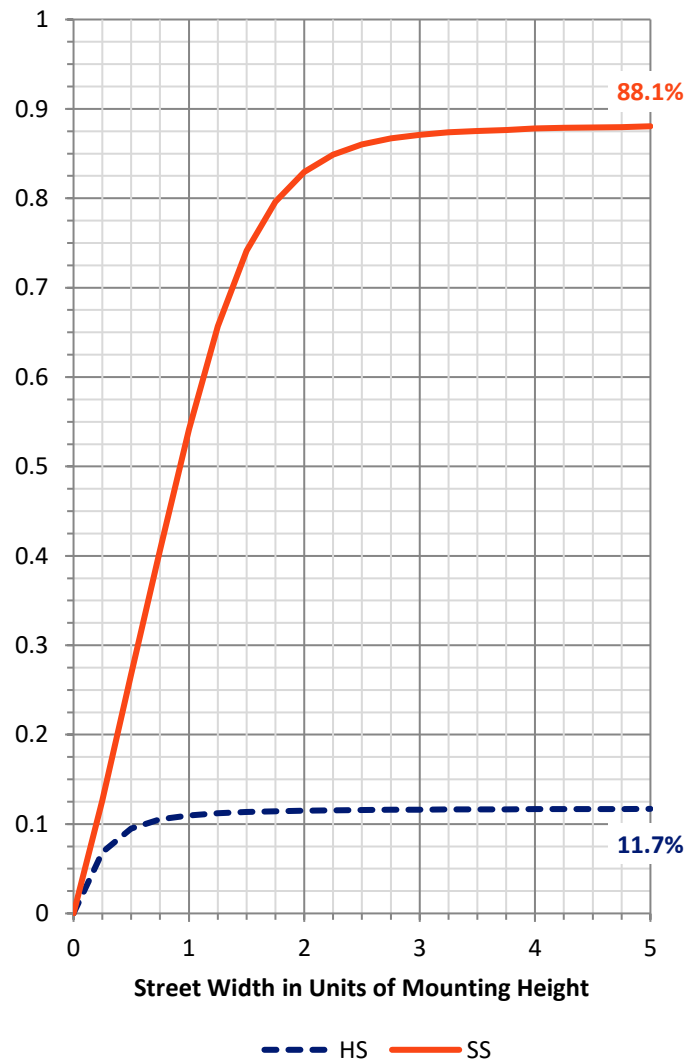
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1246.5	0.0	1246.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	9315.5	0.0	9315.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	10562.0	0.0	10562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	0.8
10°-20°	241.5	2.3
20°-30°	442.0	4.2
30°-40°	898.2	8.5
40°-50°	1896.6	18.0
50°-60°	2915.8	27.6
60°-70°	2934.9	27.8
70°-80°	1096.6	10.4
80°-90°	54.8	0.5
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°	10562.0	100.0
0°-180°	10562.0	100.0

Coefficient of Utilization



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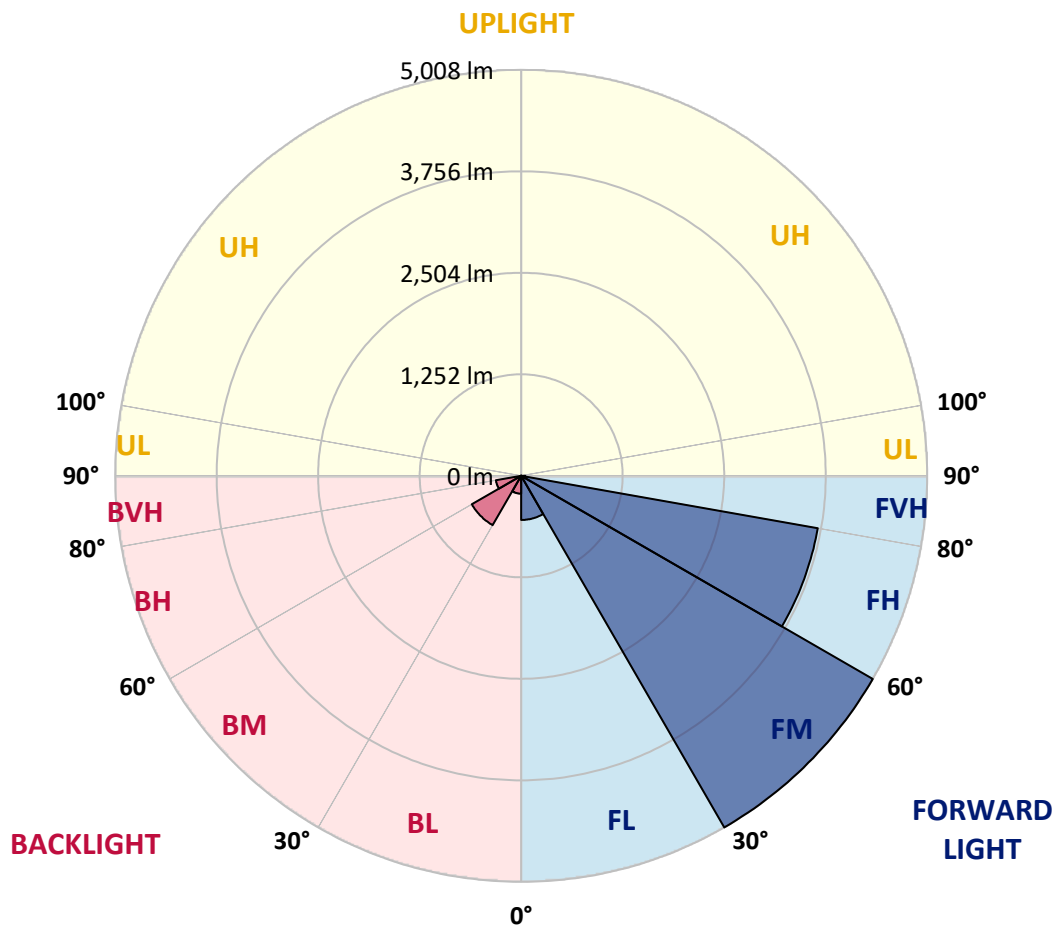
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	544.5	5.2			
FM	(30°-60°)	5007.8	47.4			
FH	(60°-80°)	3714.9	35.2			G2/5000
FVH	(80°-90°)	48.3	0.5			G1/100
BL	(0°-30°)	220.6	2.1	B1/500		
BM	(30°-60°)	702.8	6.7	B1/1000		
BH	(60°-80°)	316.7	3.0	B1/500		G1/500
BVH	(80°-90°)	6.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5
2.5°	981.2	983.2	979.3	971.7	964.0	954.4	939.1	914.2	910.3	893.1	873.9
5°	1048.3	1052.2	1046.4	1044.5	1040.7	1027.2	1006.2	969.7	965.9	931.4	887.3
7.5°	1071.3	1077.1	1073.2	1073.2	1073.2	1067.5	1057.9	1025.3	1019.6	975.5	908.4
10°	1088.6	1092.4	1090.5	1098.2	1103.9	1100.1	1094.3	1075.2	1069.4	1025.3	937.2
12.5°	1115.4	1117.3	1119.2	1123.1	1132.6	1136.5	1134.6	1117.3	1113.5	1082.8	973.6
15°	1140.3	1140.3	1142.2	1159.5	1172.9	1180.6	1182.5	1169.1	1165.2	1140.3	1019.6
17.5°	1163.3	1165.2	1171.0	1190.1	1213.1	1228.5	1238.1	1232.3	1226.6	1207.4	1073.2
20°	1197.8	1201.6	1207.4	1234.2	1257.2	1282.1	1301.3	1299.4	1297.5	1284.1	1136.5
22.5°	1257.2	1261.1	1270.6	1295.5	1318.5	1349.2	1381.8	1379.9	1374.1	1364.5	1211.2
25°	1347.3	1347.3	1353.0	1374.1	1402.9	1439.3	1470.0	1475.7	1470.0	1464.2	1305.1
27.5°	1460.4	1462.3	1462.3	1485.3	1512.1	1558.1	1596.4	1602.2	1602.2	1596.4	1431.6
30°	1617.5	1611.8	1607.9	1627.1	1655.9	1722.9	1790.0	1801.5	1795.8	1805.3	1609.9
32.5°	1887.7	1878.2	1845.6	1849.4	1866.7	1958.7	2071.7	2112.0	2110.1	2127.3	1897.3
35°	2261.5	2242.3	2194.4	2154.1	2152.2	2251.9	2424.4	2575.8	2573.9	2633.3	2334.3
37.5°	2683.1	2708.0	2617.9	2548.9	2527.9	2606.4	2828.7	3156.5	3173.7	3277.2	2907.3
40°	3246.5	3261.9	3146.9	3049.1	2949.5	2978.2	3271.5	3781.2	3811.9	3926.9	3480.4
42.5°	3737.2	3752.5	3685.4	3566.6	3440.1	3386.4	3718.0	4348.5	4373.4	4532.5	4070.6
45°	4070.6	4082.1	4105.1	4116.6	3972.9	3861.7	4264.2	4931.1	4961.8	5145.8	4647.5
47.5°	4331.3	4340.9	4386.9	4501.8	4473.1	4384.9	4820.0	5536.8	5544.4	5749.5	5209.0
50°	4452.0	4475.0	4588.1	4764.4	4890.9	4915.8	5423.7	6109.8	6130.9	6326.3	5739.9
52.5°	4317.9	4325.5	4611.1	4942.6	5197.5	5450.5	6029.3	6640.7	6702.0	6847.6	6217.1
55°	3865.6	3921.1	4354.3	4936.9	5439.0	5958.4	6677.1	7213.7	7269.3	7361.3	6636.8
57.5°	3340.4	3401.8	3928.8	4689.7	5542.5	6427.9	7276.9	7823.1	7861.5	7886.4	7022.0
60°	2886.2	2943.7	3486.1	4216.3	5439.0	6759.5	7834.6	8428.7	8461.3	8394.2	7215.6
62.5°	2328.5	2386.0	2932.2	3589.6	5032.7	6826.6	8248.6	8967.3	8980.7	8798.6	7096.8
65°	1755.5	1793.8	2250.0	2813.4	4321.7	6470.1	8342.5	9302.7	9289.2	8915.5	6740.3
66°	1573.4	1606.0	2008.5	2487.6	3951.8	6144.3	8216.0	9329.5	9316.1	8829.3	6506.5
67.5°	1356.9	1366.5	1698.0	2035.3	3306.0	5452.4	7830.8	9206.8	9218.3	8591.6	6079.1
70°	1059.8	1057.9	1249.6	1416.3	2257.6	3879.0	6531.4	8434.5	8490.1	7694.7	5184.1
72.5°	678.4	655.4	766.6	866.3	1314.7	2251.9	4762.5	6874.5	6968.4	6044.6	3861.7
75°	404.4	381.4	408.2	433.1	630.5	1082.8	2800.0	4678.2	4768.2	3875.2	2297.9
77.5°	302.8	293.2	295.1	274.1	279.8	406.3	1278.3	2472.3	2537.4	1586.9	872.0
80°	231.9	207.0	193.6	203.1	184.0	161.0	475.3	850.9	891.2	375.6	182.1
82.5°	155.2	134.2	124.6	136.1	116.9	90.1	115.0	164.8	161.0	101.6	70.9
85°	80.5	69.0	69.0	69.0	59.4	44.1	49.8	67.1	67.1	53.7	42.2
87.5°	23.0	21.1	24.9	23.0	17.2	17.2	19.2	23.0	23.0	21.1	19.2
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°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5
2.5°	858.6	850.9	829.8	814.5	799.2	785.8	770.4	766.6	758.9	760.8	757.0
5°	864.3	843.3	806.8	772.3	745.5	722.5	693.8	682.3	666.9	661.2	657.4
7.5°	872.0	841.3	787.7	739.8	693.8	647.8	601.8	574.9	557.7	550.0	544.3
10°	889.3	849.0	778.1	703.4	624.8	559.6	513.6	494.5	483.0	481.0	479.1
12.5°	912.3	860.5	768.5	657.4	553.9	492.5	463.8	458.0	456.1	456.1	454.2
15°	946.7	879.7	753.2	603.7	498.3	456.1	442.7	433.1	429.3	429.3	429.3
17.5°	981.2	902.7	730.2	548.1	460.0	433.1	419.7	414.0	410.1	412.0	410.1
20°	1025.3	929.5	699.5	500.2	435.0	414.0	400.5	394.8	392.9	392.9	392.9
22.5°	1075.2	960.2	661.2	463.8	414.0	394.8	381.4	375.6	371.8	373.7	373.7
25°	1142.2	998.5	620.9	427.4	392.9	375.6	360.3	352.6	352.6	354.6	356.5
27.5°	1228.5	1044.5	580.7	404.4	373.7	356.5	339.2	331.6	333.5	337.3	337.3
30°	1355.0	1107.7	540.5	379.5	352.6	333.5	318.1	310.5	314.3	322.0	322.0
32.5°	1535.1	1211.2	506.0	350.7	322.0	300.9	285.6	279.8	289.4	304.7	304.7
35°	1857.1	1401.0	484.9	322.0	289.4	264.5	245.3	239.6	253.0	272.1	272.1
37.5°	2288.3	1705.7	492.5	297.1	262.6	233.8	212.7	205.1	214.6	231.9	237.6
40°	2769.3	2073.6	559.6	276.0	237.6	208.9	187.8	180.2	185.9	193.6	195.5
42.5°	3250.4	2464.6	686.1	260.6	218.5	187.8	168.7	162.9	166.7	168.7	170.6
45°	3729.5	2851.7	845.2	251.1	201.2	170.6	151.4	151.4	153.3	153.3	153.3
47.5°	4183.7	3229.3	1011.9	249.1	185.9	153.3	138.0	139.9	139.9	141.8	141.8
50°	4613.0	3566.6	1180.6	254.9	172.5	138.0	126.5	126.5	126.5	128.4	126.5
52.5°	4971.4	3861.7	1356.9	264.5	159.1	126.5	115.0	115.0	115.0	116.9	115.0
55°	5310.6	4130.0	1537.0	277.9	147.6	116.9	105.4	101.6	101.6	103.5	101.6
57.5°	5586.6	4308.3	1707.6	279.8	138.0	107.3	97.7	92.0	92.0	92.0	92.0
60°	5598.1	4204.8	1757.4	245.3	126.5	97.7	88.2	80.5	82.4	82.4	82.4
62.5°	5232.0	3660.5	1412.5	184.0	113.1	88.2	80.5	72.8	72.8	72.8	72.8
65°	4513.3	2847.9	827.9	145.7	97.7	78.6	70.9	65.2	65.2	65.2	63.2
66°	4176.0	2497.2	634.4	132.2	92.0	76.7	69.0	63.2	61.3	59.4	59.4
67.5°	3626.0	1974.0	396.7	116.9	84.3	70.9	63.2	57.5	55.6	53.7	53.7
70°	2731.0	1253.4	193.6	90.1	72.8	61.3	55.6	49.8	47.9	46.0	44.1
72.5°	1916.5	734.0	101.6	69.0	59.4	53.7	47.9	42.2	40.2	38.3	38.3
75°	1082.8	354.6	67.1	49.8	47.9	44.1	40.2	34.5	32.6	32.6	32.6
77.5°	410.1	122.7	46.0	36.4	38.3	34.5	28.7	28.7	26.8	28.7	26.8
80°	107.3	53.7	28.7	26.8	28.7	24.9	21.1	23.0	23.0	23.0	23.0
82.5°	57.5	30.7	17.2	19.2	17.2	17.2	13.4	15.3	17.2	15.3	17.2
85°	40.2	15.3	9.6	9.6	7.7	7.7	5.7	7.7	9.6	7.7	7.7
87.5°	21.1	5.7	5.7	5.7	5.7	3.8	1.9	0.0	1.9	1.9	1.9
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)