

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: P1211684

Luminaire Tested: **ARCH4-80-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10529 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 83.4
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



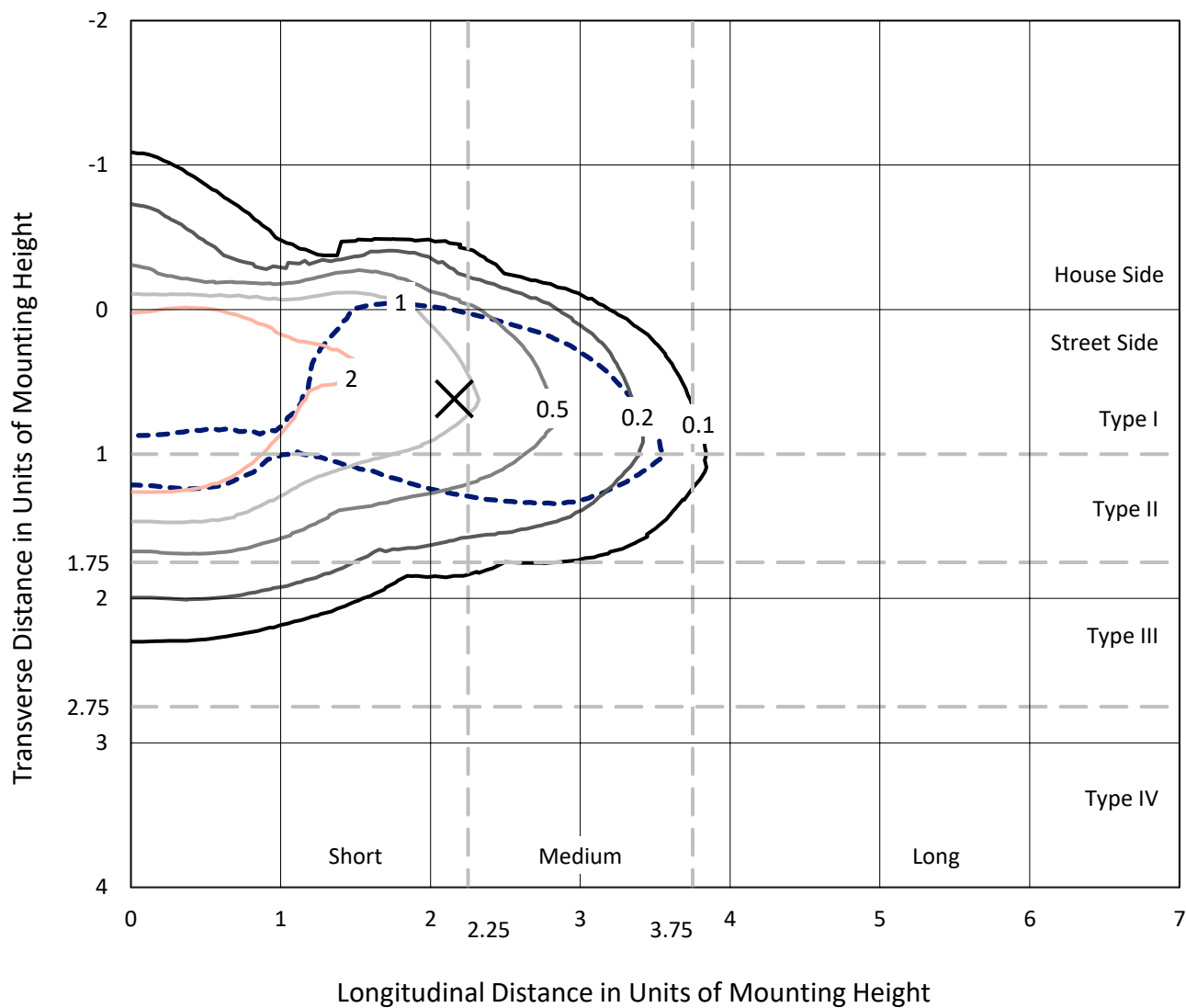
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Iso-Footcandle Lines of Horizontal Illumination

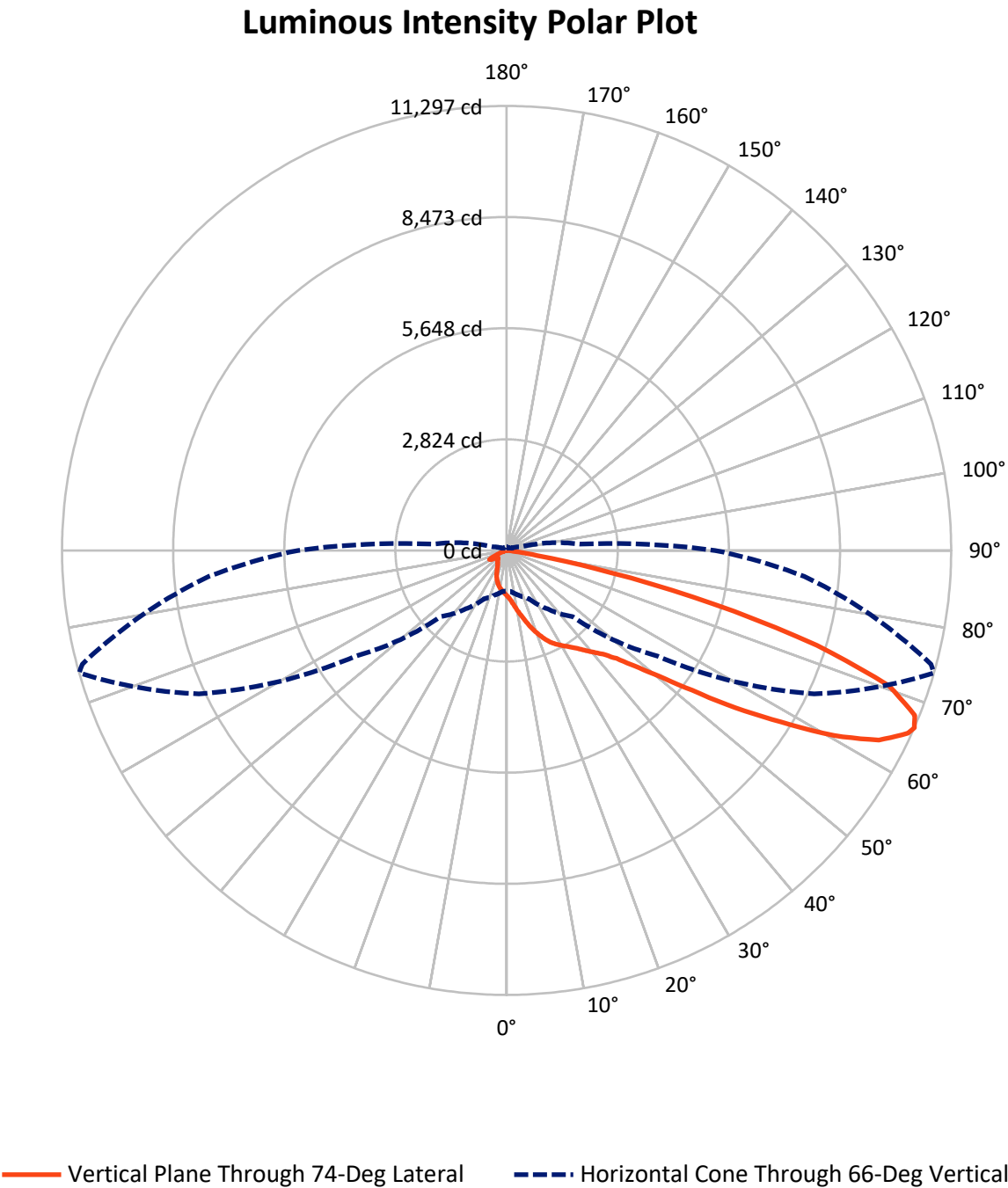
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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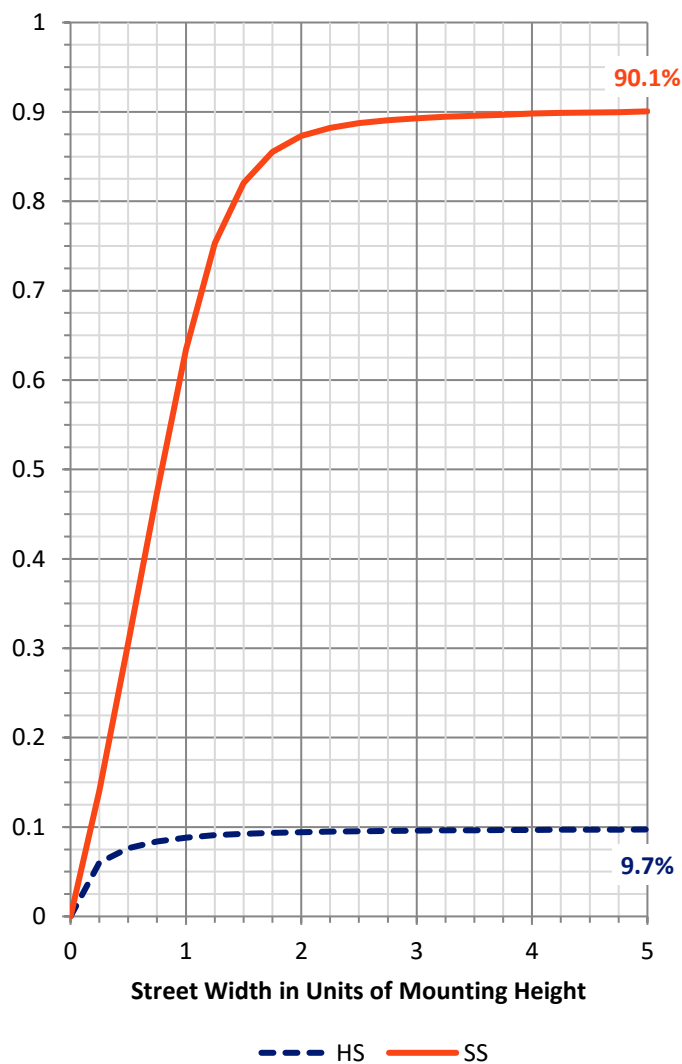
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1032.2	0.0	1032.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	9496.8	0.0	9496.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	10529.0	0.0	10529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	1.1
10°-20°	359.6	3.4
20°-30°	686.4	6.5
30°-40°	1203.0	11.4
40°-50°	2062.8	19.6
50°-60°	2682.9	25.5
60°-70°	2428.7	23.1
70°-80°	937.1	8.9
80°-90°	56.4	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°	10529.0	100.0
0°-180°	10529.0	100.0

Coefficient of Utilization



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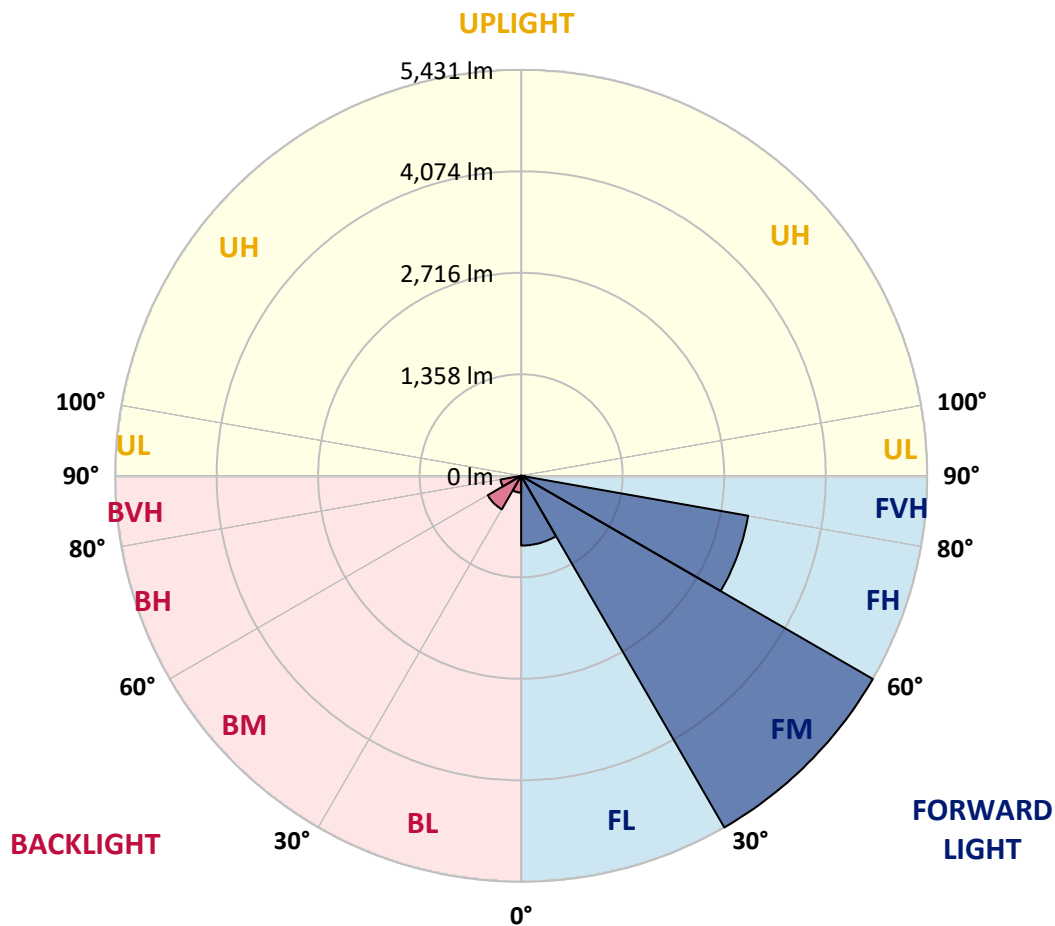
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	933.0	8.9			
FM	(30°-60°)	5431.4	51.6			
FH	(60°-80°)	3083.6	29.3			G2/5000
FVH	(80°-90°)	48.8	0.5			G1/100
BL	(0°-30°)	225.1	2.1	B1/500		
BM	(30°-60°)	517.3	4.9	B1/1000		
BH	(60°-80°)	282.2	2.7	B1/500		G1/500
BVH	(80°-90°)	7.6	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3
2.5°	1380.0	1368.6	1347.8	1345.9	1328.9	1308.1	1272.2	1234.4	1207.9	1204.2	1172.0
5°	1652.2	1646.5	1625.7	1612.5	1580.3	1531.2	1448.0	1364.8	1294.9	1287.3	1215.5
7.5°	1724.0	1727.8	1731.6	1744.8	1733.4	1710.8	1648.4	1531.2	1421.5	1404.5	1279.8
10°	1735.3	1731.6	1731.6	1748.6	1780.7	1812.8	1805.3	1705.1	1563.3	1542.5	1368.6
12.5°	1858.2	1863.9	1850.7	1843.1	1837.4	1854.4	1911.1	1867.7	1712.7	1695.6	1476.4
15°	2017.0	2015.1	1996.2	1996.2	1979.2	1950.8	1986.8	2018.9	1892.2	1871.4	1599.2
17.5°	2132.3	2139.9	2138.0	2149.3	2143.7	2105.8	2086.9	2153.1	2077.5	2051.0	1739.1
20°	2224.9	2245.7	2253.3	2289.2	2306.2	2279.8	2230.6	2272.2	2255.2	2230.6	1880.9
22.5°	2323.2	2340.3	2353.5	2415.9	2463.1	2457.5	2395.1	2385.6	2427.2	2404.5	2020.8
25°	2421.5	2429.1	2468.8	2544.4	2620.0	2638.9	2574.7	2500.9	2582.2	2561.4	2145.5
27.5°	2529.3	2533.1	2580.3	2673.0	2778.8	2818.5	2767.5	2631.4	2701.3	2701.3	2259.0
30°	2725.9	2763.7	2782.6	2865.8	2958.4	3013.2	2952.7	2769.4	2807.2	2824.2	2378.1
32.5°	3149.3	3155.0	3149.3	3185.2	3204.1	3236.3	3166.3	2924.4	2914.9	2933.8	2495.3
35°	3795.8	3773.1	3712.6	3659.7	3550.1	3489.6	3398.8	3122.9	3047.2	3073.7	2610.6
37.5°	4580.3	4548.2	4410.2	4247.6	4013.2	3771.2	3657.8	3364.8	3215.5	3249.5	2735.3
40°	5328.9	5308.1	5143.6	4943.3	4542.5	4128.5	3888.4	3569.0	3402.6	3415.9	2862.0
42.5°	5945.1	5941.4	5803.4	5593.5	5079.4	4514.2	4160.7	3769.4	3599.2	3620.0	2994.3
45°	6412.1	6376.1	6274.1	6122.8	5599.2	4914.9	4489.6	4073.7	3914.9	3939.5	3192.8
47.5°	6412.1	6417.7	6483.9	6468.8	5962.2	5291.1	4848.7	4457.4	4381.8	4404.5	3519.8
50°	5890.3	5943.3	6238.1	6485.8	6151.2	5584.1	5236.3	4937.6	5015.1	5049.1	4090.7
52.5°	4858.2	4947.0	5459.3	6024.5	6011.3	5731.5	5637.0	5548.2	5896.0	5956.5	4933.8
55°	3691.8	3750.4	4417.7	5160.6	5402.6	5610.6	5986.7	6323.2	7062.3	7049.1	5790.1
57.5°	2758.0	2812.8	3387.5	4211.7	4531.2	5086.9	6166.3	7209.8	8219.2	8270.3	6593.5
60°	2028.3	2069.9	2559.5	3236.3	3697.5	4285.4	6094.5	8083.1	9551.9	9493.3	7302.4
62.5°	1500.9	1523.6	1877.1	2317.6	2930.0	3491.5	5642.7	8680.5	10616.2	10497.1	7697.5
65°	1160.7	1168.2	1351.6	1586.0	2130.4	2714.5	4969.7	8771.2	11204.1	11077.4	7689.9
66°	1034.0	1039.7	1173.9	1355.4	1812.8	2376.2	4674.8	8625.7	11296.7	11162.5	7595.4
67.5°	867.7	863.9	943.3	1062.4	1361.1	1833.6	4151.2	8200.3	11187.1	11119.0	7293.0
70°	642.7	644.6	684.3	712.7	795.8	1015.1	2998.1	7113.4	10310.0	10306.2	6463.1
72.5°	476.4	482.0	512.3	518.0	497.2	550.1	1727.8	5657.8	8247.6	8249.5	4831.7
75°	357.3	366.7	376.2	380.0	361.1	347.8	780.7	3807.2	5425.3	5385.6	2735.3
77.5°	272.2	276.0	283.6	277.9	274.1	240.1	325.1	1856.3	2678.6	2440.4	886.6
80°	198.5	198.5	206.0	198.5	196.6	172.0	177.7	595.5	786.4	654.1	190.9
82.5°	124.8	122.9	128.5	126.7	122.9	109.6	104.0	166.4	181.5	162.6	92.6
85°	69.9	68.1	66.2	64.3	58.6	49.1	56.7	62.4	83.2	85.1	66.2
87.5°	24.6	24.6	22.7	20.8	17.0	17.0	20.8	20.8	30.2	30.2	34.0
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°	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3	1149.3
2.5°	1156.9	1136.1	1105.9	1066.2	1037.8	1009.4	979.2	962.2	937.6	931.9	939.5
5°	1177.7	1139.9	1064.3	981.1	909.3	845.0	784.5	748.6	712.7	699.4	705.1
7.5°	1221.2	1156.9	1028.3	894.1	775.0	678.6	606.8	565.2	533.1	519.8	523.6
10°	1285.4	1187.1	994.3	795.8	642.7	540.6	480.1	453.7	434.8	427.2	429.1
12.5°	1362.9	1230.6	950.8	697.5	529.3	440.5	412.1	406.4	402.6	398.9	400.8
15°	1449.9	1268.4	899.8	601.1	440.5	391.3	381.9	380.0	378.1	378.1	378.1
17.5°	1540.6	1302.4	843.1	510.4	383.7	361.1	355.4	355.4	355.4	357.3	357.3
20°	1625.7	1328.9	776.9	429.1	351.6	332.7	328.9	328.9	330.8	332.7	332.7
22.5°	1708.9	1340.3	699.4	372.4	325.1	308.1	302.5	302.5	302.5	304.3	304.3
25°	1780.7	1340.3	621.9	336.5	302.5	285.4	277.9	276.0	277.9	277.9	277.9
27.5°	1841.2	1334.6	546.3	311.9	279.8	262.8	255.2	253.3	257.1	259.0	259.0
30°	1905.5	1327.0	485.8	289.2	260.9	243.9	236.3	236.3	242.0	249.5	249.5
32.5°	1967.9	1332.7	438.6	270.3	242.0	228.7	221.2	223.1	234.4	245.7	245.7
35°	2034.0	1344.0	410.2	257.1	228.7	215.5	209.8	215.5	226.8	238.2	238.2
37.5°	2100.2	1357.3	393.2	245.7	217.4	204.2	200.4	207.9	221.2	232.5	234.4
40°	2170.1	1368.6	374.3	234.4	209.8	194.7	192.8	200.4	217.4	228.7	230.6
42.5°	2257.1	1391.3	351.6	225.0	202.3	183.4	185.3	190.9	207.9	225.0	226.8
45°	2427.2	1463.1	328.9	215.5	192.8	177.7	173.9	177.7	196.6	215.5	219.3
47.5°	2746.7	1625.7	304.3	206.0	183.4	173.9	158.8	162.6	179.6	200.4	202.3
50°	3359.1	1971.6	291.1	196.6	175.8	160.7	143.7	143.7	156.9	175.8	175.8
52.5°	4313.8	2591.7	298.7	189.0	166.4	147.4	130.4	128.5	136.1	149.3	149.3
55°	5344.0	3272.2	327.0	181.5	155.0	139.9	121.0	111.5	117.2	124.8	124.8
57.5°	6160.6	3614.3	404.5	177.7	141.8	134.2	109.6	96.4	102.1	109.6	109.6
60°	6519.8	3414.0	491.5	181.5	132.3	124.8	98.3	85.1	94.5	102.1	104.0
62.5°	6228.7	2810.9	527.4	172.0	119.1	111.5	96.4	79.4	90.7	96.4	98.3
65°	5599.2	2136.1	412.1	149.3	109.6	96.4	87.0	75.6	85.1	90.7	90.7
66°	5300.5	1862.0	351.6	138.0	105.9	90.7	83.2	75.6	83.2	87.0	88.8
67.5°	4837.4	1468.8	260.9	121.0	98.3	83.2	77.5	71.8	79.4	83.2	83.2
70°	3782.6	875.2	156.9	94.5	85.1	73.7	69.9	66.2	71.8	73.7	73.7
72.5°	2368.6	415.9	100.2	69.9	71.8	69.9	58.6	62.4	64.3	66.2	66.2
75°	1147.4	164.5	68.1	51.0	58.6	66.2	47.3	54.8	56.7	60.5	58.6
77.5°	319.5	79.4	43.5	37.8	51.0	51.0	35.9	43.5	51.0	64.3	58.6
80°	92.6	51.0	28.4	28.4	35.9	35.9	24.6	30.2	34.0	37.8	39.7
82.5°	64.3	34.0	18.9	20.8	20.8	22.7	15.1	15.1	18.9	18.9	20.8
85°	51.0	15.1	11.3	13.2	9.5	11.3	7.6	7.6	9.5	7.6	7.6
87.5°	20.8	7.6	7.6	7.6	5.7	5.7	3.8	1.9	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)