

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: McGRAW-EDISON

Report Number: P588497

Luminaire Tested: **GAT-CA6-LED-70-727-U-55-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GAT-CA6-LED-70-727-U-55-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6615 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G3

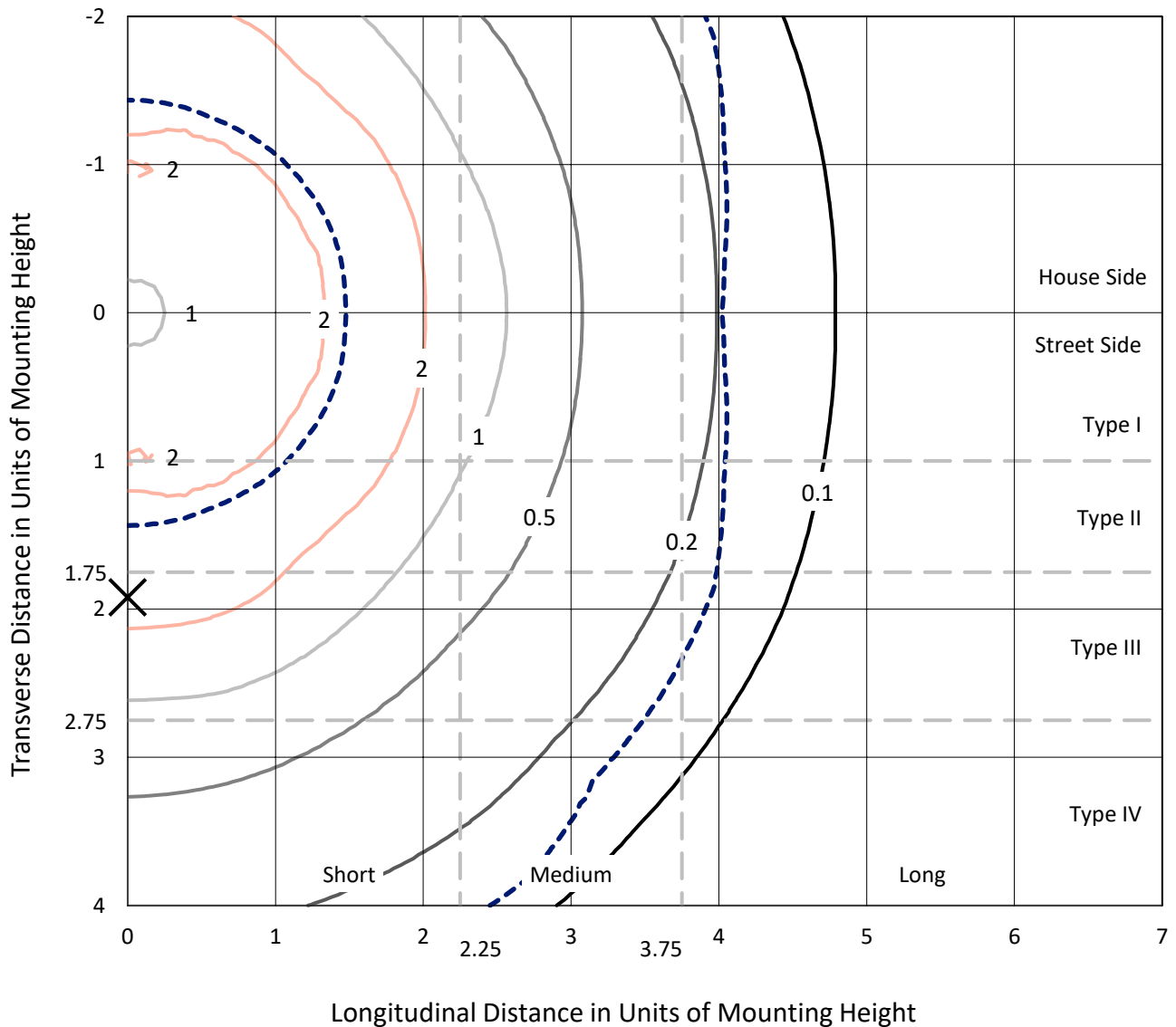
Input Watts (W): 73.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

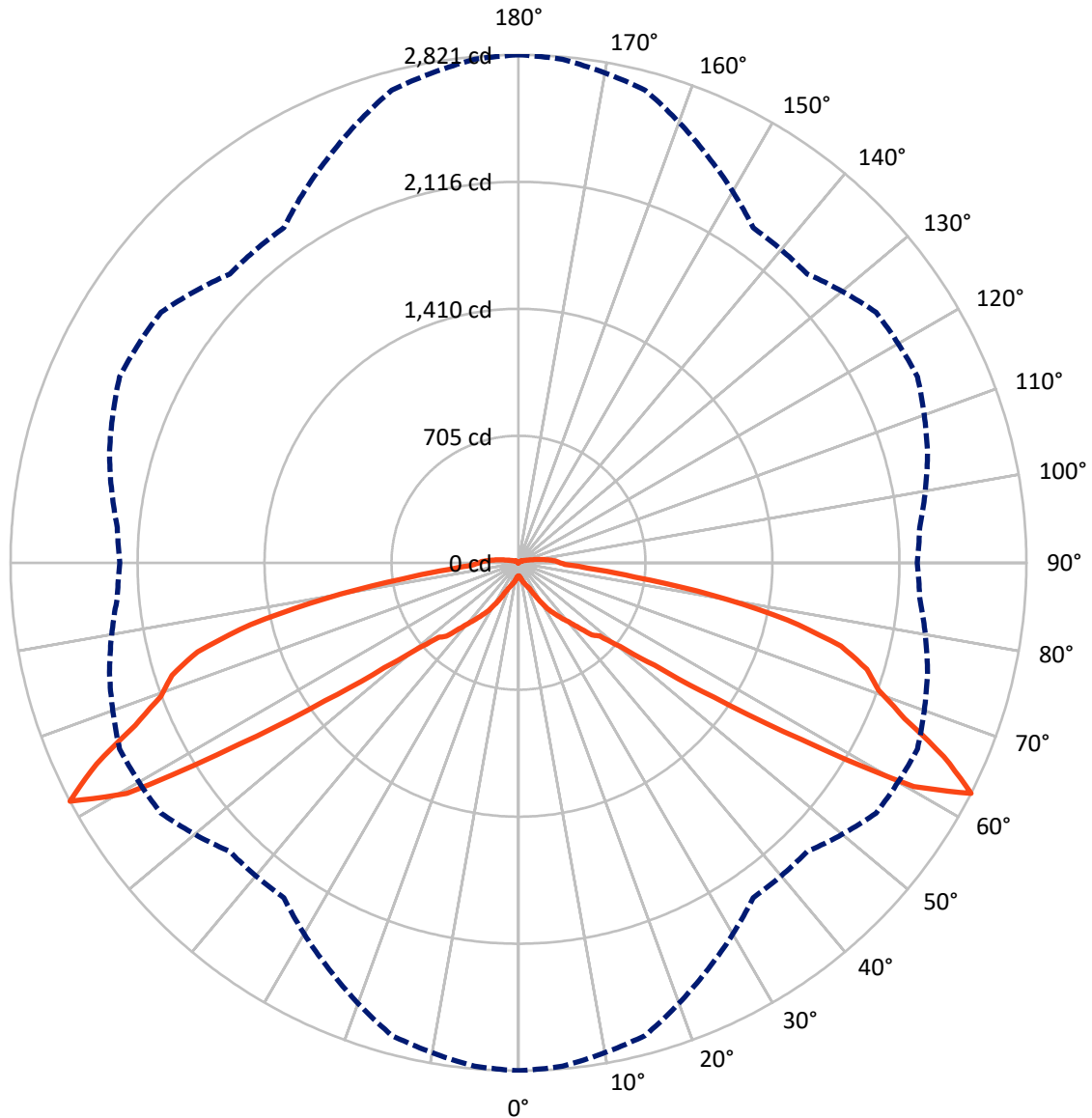
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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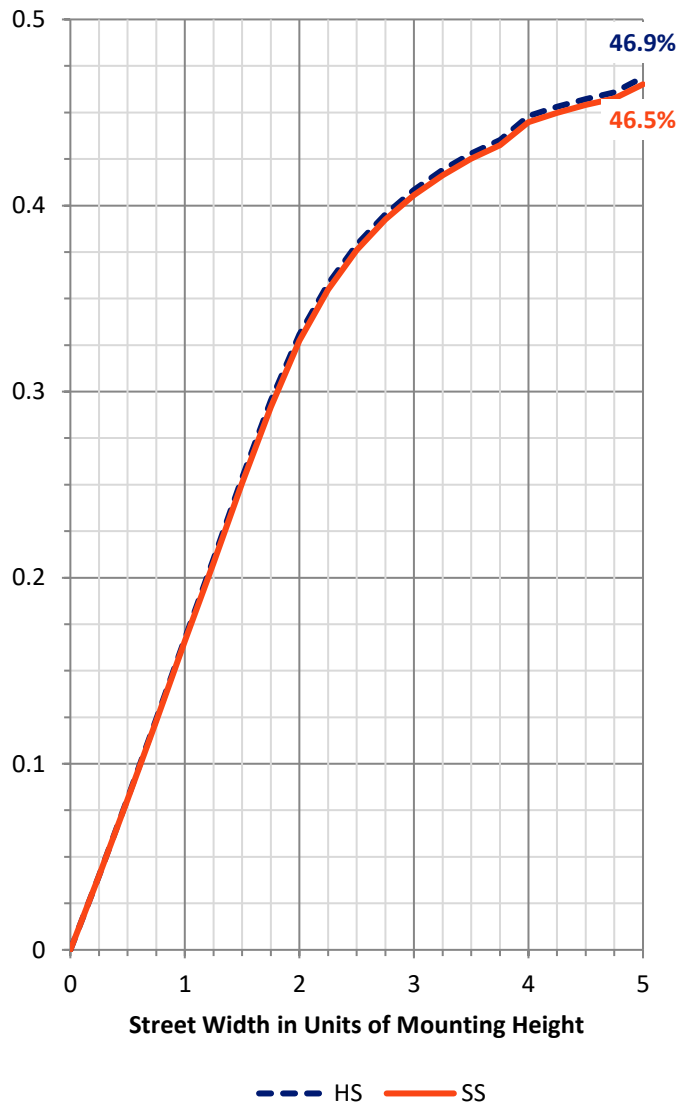
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3180.4	127.1	3307.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	3180.4	127.1	3307.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	6360.8	254.2	6615.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.1
10°-20°	33.3	0.5
20°-30°	87.9	1.3
30°-40°	200.1	3.0
40°-50°	404.7	6.1
50°-60°	1198.0	18.1
60°-70°	2250.7	34.0
70°-80°	1673.0	25.3
80°-90°	505.1	7.6
90°-100°	163.9	2.5
100°-110°	57.4	0.9
110°-120°	22.2	0.3
120°-130°	8.8	0.1
130°-140°	1.8	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	6360.8	96.2
0°-180°	6615.0	100.0

Coefficient of Utilization



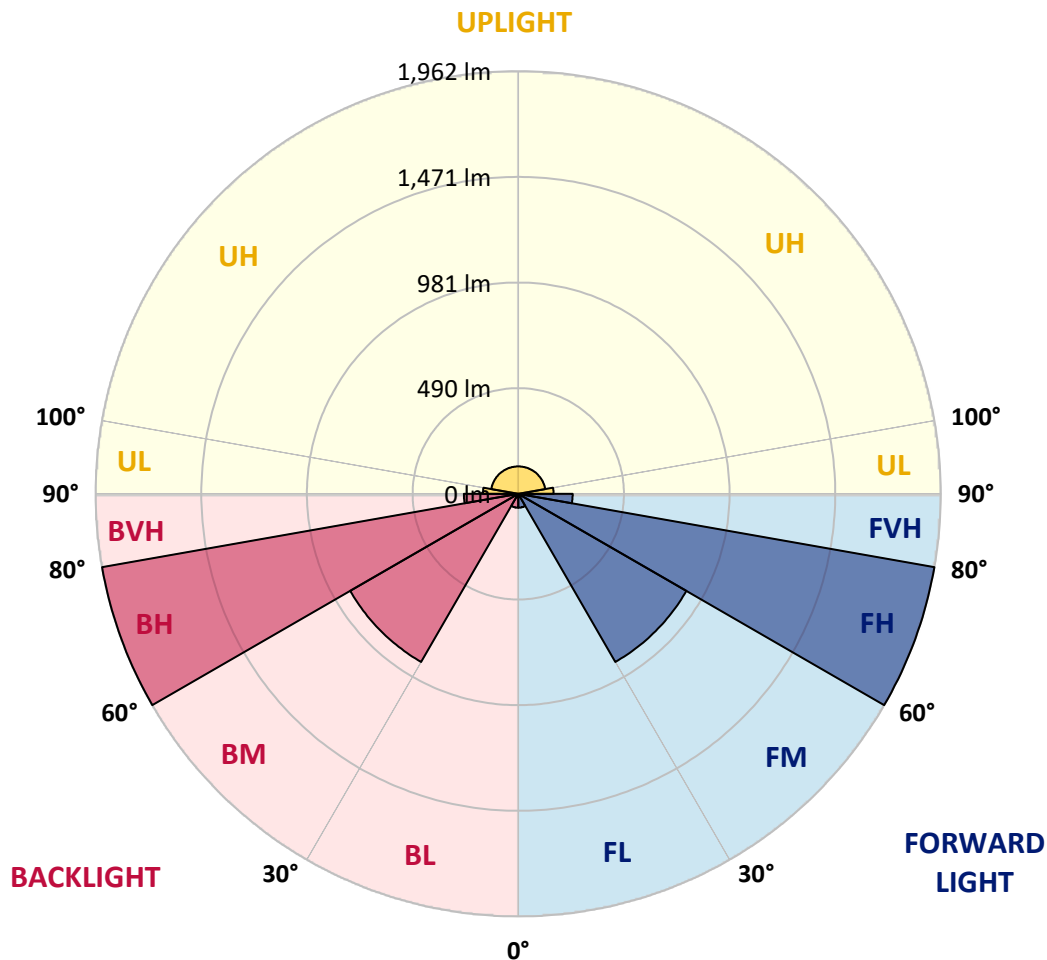
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	64.6	1.0			
FM (30°-60°)	901.4	13.6			
FH (60°-80°)	1961.9	29.7			G2/5000
FVH (80°-90°)	252.5	3.8			G3/500
BL (0°-30°)	64.6	1.0	B0/110		
BM (30°-60°)	901.4	13.6	B1/1000		
BH (60°-80°)	1961.9	29.7	B3/2500		G2/5000
BVH (80°-90°)	252.5	3.8			G3/500
UL (90°-100°)	163.9	2.5		U3/500	
UH (100°-180°)	127.1	1.9		U3/500	

BUG Rating: B3-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
2.5°	74.0	74.0	74.0	72.7	71.5	71.5	71.5	71.5	70.2	70.2	70.2
5°	77.8	77.8	76.5	75.3	75.3	74.0	75.3	74.0	74.0	74.0	75.3
7.5°	86.5	86.5	85.3	85.3	85.3	84.0	84.0	84.0	84.0	82.8	84.0
10°	96.6	96.6	96.6	96.6	96.6	95.3	95.3	94.1	94.1	94.1	94.1
12.5°	107.9	106.6	106.6	107.9	106.6	105.4	105.4	105.4	104.1	104.1	104.1
15°	117.9	117.9	116.6	116.6	116.6	115.4	115.4	114.1	114.1	112.9	112.9
17.5°	127.9	127.9	126.7	125.4	125.4	125.4	124.2	124.2	122.9	122.9	122.9
20°	140.5	139.2	138.0	136.7	135.5	135.5	135.5	135.5	134.2	132.9	132.9
22.5°	154.3	153.0	151.8	150.5	150.5	149.3	149.3	148.0	148.0	146.7	145.5
25°	183.1	183.1	178.1	176.8	176.8	178.1	176.8	175.6	173.1	169.3	169.3
27.5°	222.0	223.3	224.5	230.8	229.5	220.7	215.7	213.2	212.0	212.0	213.2
30°	265.9	267.2	270.9	277.2	273.4	262.1	249.6	244.6	248.3	253.4	254.6
32.5°	312.3	312.3	304.8	296.0	287.2	279.7	275.9	273.4	272.2	268.4	268.4
35°	348.7	342.4	318.6	289.7	280.9	286.0	301.0	306.0	287.2	269.7	267.2
37.5°	390.1	388.8	370.0	348.7	332.4	329.9	346.2	351.2	331.1	319.8	318.6
40°	434.0	436.5	440.2	431.5	406.4	398.8	390.1	383.8	383.8	385.0	382.5
42.5°	492.9	496.7	496.7	497.9	477.9	460.3	442.7	432.7	431.5	441.5	445.3
45°	571.9	571.9	563.2	545.6	536.8	524.3	513.0	502.9	497.9	499.2	502.9
47.5°	607.0	609.6	602.0	576.9	570.7	558.1	541.8	538.1	540.6	544.3	545.6
50°	730.0	723.7	672.3	619.6	600.8	613.3	637.2	643.4	619.6	595.8	589.5
52.5°	945.7	944.4	904.3	865.4	839.1	831.6	864.2	866.7	825.3	807.7	805.2
55°	1319.5	1305.7	1335.8	1354.6	1299.4	1237.9	1215.4	1184.0	1186.5	1221.6	1222.9
57.5°	1850.0	1857.5	1891.4	1842.5	1758.4	1713.3	1681.9	1623.0	1624.2	1655.6	1658.1
60°	2523.5	2522.3	2414.4	2226.3	2097.1	2105.9	2192.4	2204.9	2070.7	1984.2	1974.2
62.5°	2820.8	2807.0	2717.9	2489.7	2271.4	2267.7	2424.4	2444.5	2351.7	2236.3	2213.7
65°	2596.3	2585.0	2622.6	2544.8	2257.6	2183.6	2231.3	2226.3	2285.2	2337.9	2344.2
67.5°	2311.6	2314.1	2404.4	2380.5	2181.1	2055.7	1995.5	1988.0	2098.3	2221.2	2237.6
70°	2120.9	2120.9	2184.9	2088.3	1993.0	1911.5	1848.7	1809.9	1881.3	1901.4	1900.2
72.5°	2023.1	2014.3	1969.1	1876.3	1803.6	1732.1	1750.9	1722.1	1688.2	1635.5	1630.5
75°	1848.7	1838.7	1776.0	1732.1	1679.4	1590.4	1606.7	1577.8	1521.4	1473.7	1466.2
77.5°	1527.7	1527.7	1487.5	1454.9	1439.9	1363.4	1355.8	1342.0	1285.6	1259.3	1249.2
80°	1093.7	1091.2	1074.9	1063.6	1082.4	1037.3	1017.2	1017.2	994.6	970.8	959.5
82.5°	650.9	642.2	642.2	645.9	634.6	605.8	610.8	639.7	637.2	623.4	613.3
85°	385.0	380.0	376.3	371.3	361.2	341.2	341.2	343.7	346.2	347.4	342.4
87.5°	257.1	255.9	255.9	255.9	244.6	230.8	237.1	240.8	238.3	237.1	235.8
90°	224.5	225.8	224.5	219.5	209.5	196.9	199.4	204.4	201.9	201.9	200.7
92.5°	201.9	201.9	199.4	194.4	184.4	173.1	174.3	176.8	175.6	174.3	173.1
95°	165.6	165.6	163.1	159.3	150.5	140.5	141.7	144.2	141.7	141.7	140.5
97.5°	129.2	129.2	127.9	125.4	117.9	110.4	111.6	112.9	111.6	111.6	110.4
100°	97.8	97.8	96.6	92.8	89.1	82.8	84.0	86.5	85.3	85.3	84.0
102.5°	72.7	72.7	71.5	70.2	65.2	61.5	62.7	62.7	62.7	61.5	61.5
105°	56.4	56.4	56.4	53.9	51.4	47.7	47.7	47.7	47.7	46.4	46.4
107.5°	45.2	43.9	43.9	42.6	40.1	37.6	37.6	37.6	37.6	37.6	37.6
110°	36.4	35.1	33.9	33.9	31.4	30.1	28.8	30.1	30.1	30.1	30.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	31.4	30.1	27.6	27.6	26.3	23.8	23.8	23.8	26.3	25.1	25.1
115°	27.6	26.3	22.6	22.6	21.3	20.1	20.1	20.1	22.6	20.1	20.1
117.5°	23.8	22.6	18.8	18.8	17.6	16.3	16.3	16.3	18.8	16.3	16.3
120°	17.6	17.6	15.1	15.1	15.1	13.8	13.8	13.8	15.1	13.8	13.8
122.5°	13.8	13.8	12.5	12.5	12.5	11.3	11.3	11.3	11.3	10.0	10.0
125°	13.8	16.3	10.0	10.0	8.8	8.8	8.8	7.5	8.8	7.5	7.5
127.5°	15.1	13.8	7.5	7.5	7.5	6.3	6.3	6.3	6.3	6.3	6.3
130°	5.0	7.5	5.0	5.0	5.0	5.0	5.0	5.0	3.8	3.8	3.8
132.5°	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5	2.5	2.5	2.5
135°	2.5	2.5	2.5	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3
137.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
170°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
172.5°	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
175°	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
177.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)