

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: P239823

Luminaire Tested: **UTLD-AF24-40-D-U-5WQ-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-5WQ-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3362 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 40
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: 28.75 FT

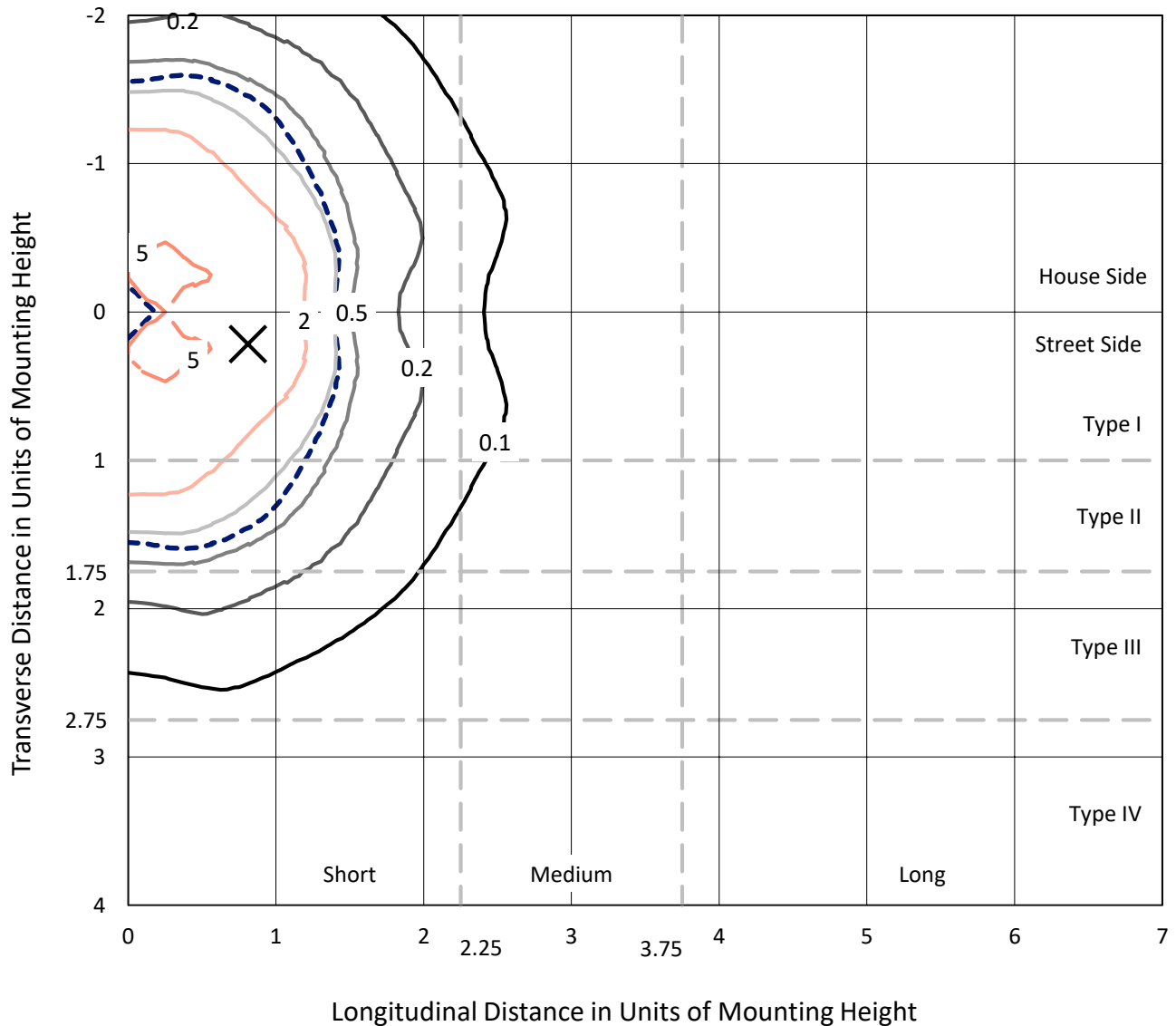


REPORT NUMBER: P239823

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-A-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

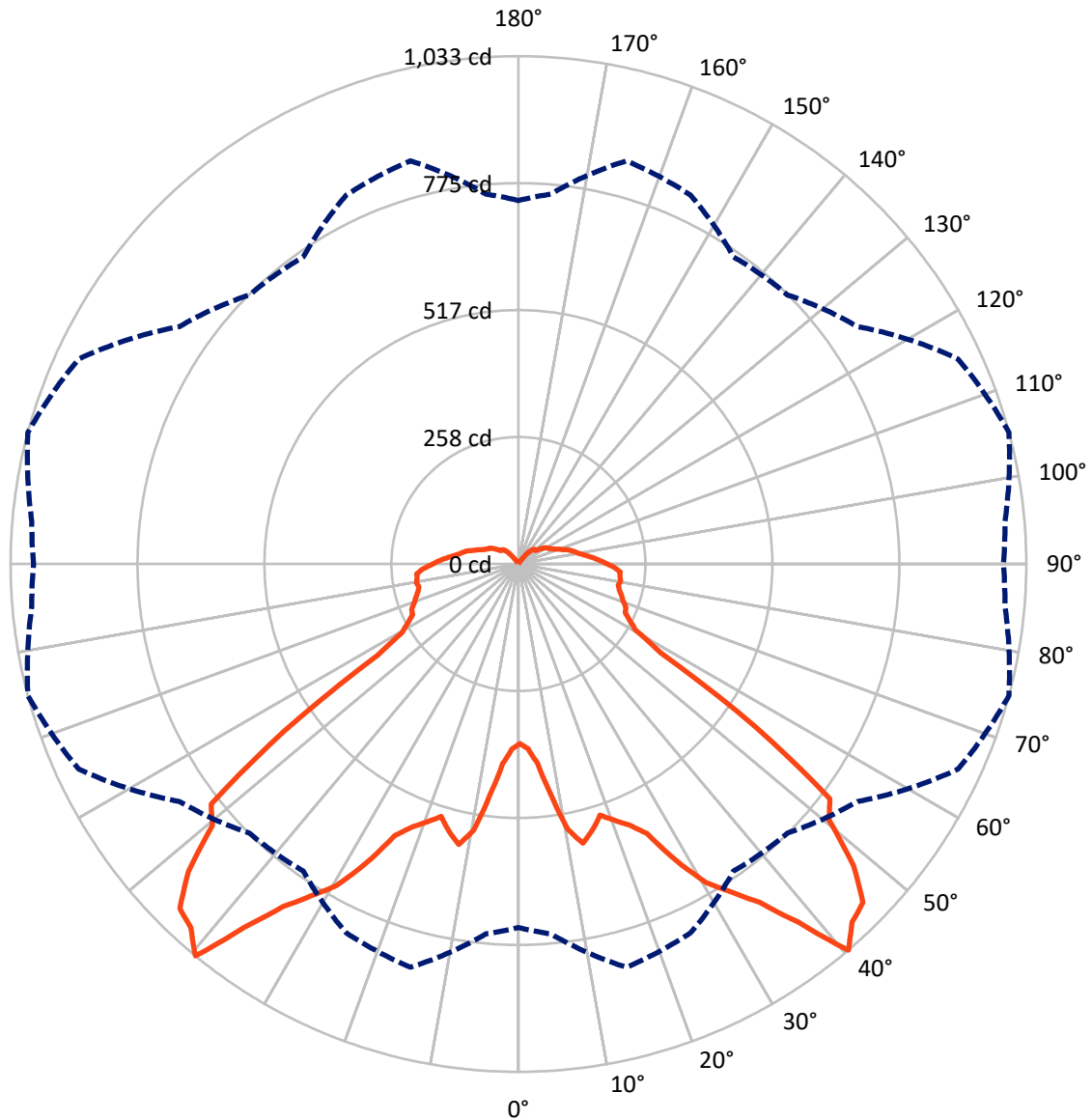


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P239823

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-A-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 40-Deg Vertical

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CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-A-7030

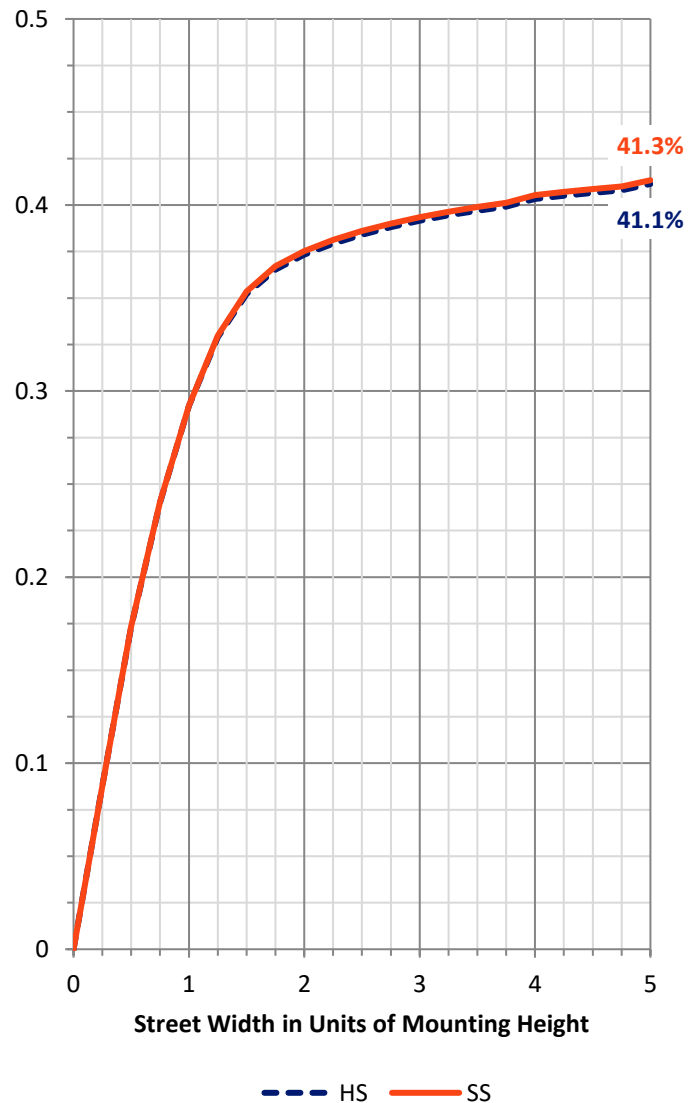
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1453.3	227.8	1681.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	1453.3	227.8	1681.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	2906.5	455.5	3362.0
	% Fixture	86.5	13.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	1.3
10°-20°	175.1	5.2
20°-30°	312.8	9.3
30°-40°	495.2	14.7
40°-50°	664.5	19.8
50°-60°	528.9	15.7
60°-70°	242.7	7.2
70°-80°	221.3	6.6
80°-90°	222.9	6.6
90°-100°	171.4	5.1
100°-110°	119.7	3.6
110°-120°	79.1	2.4
120°-130°	49.4	1.5
130°-140°	28.9	0.9
140°-150°	6.6	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2906.5	86.5
0°-180°	3362.0	100.0



REPORT NUMBER: P239823

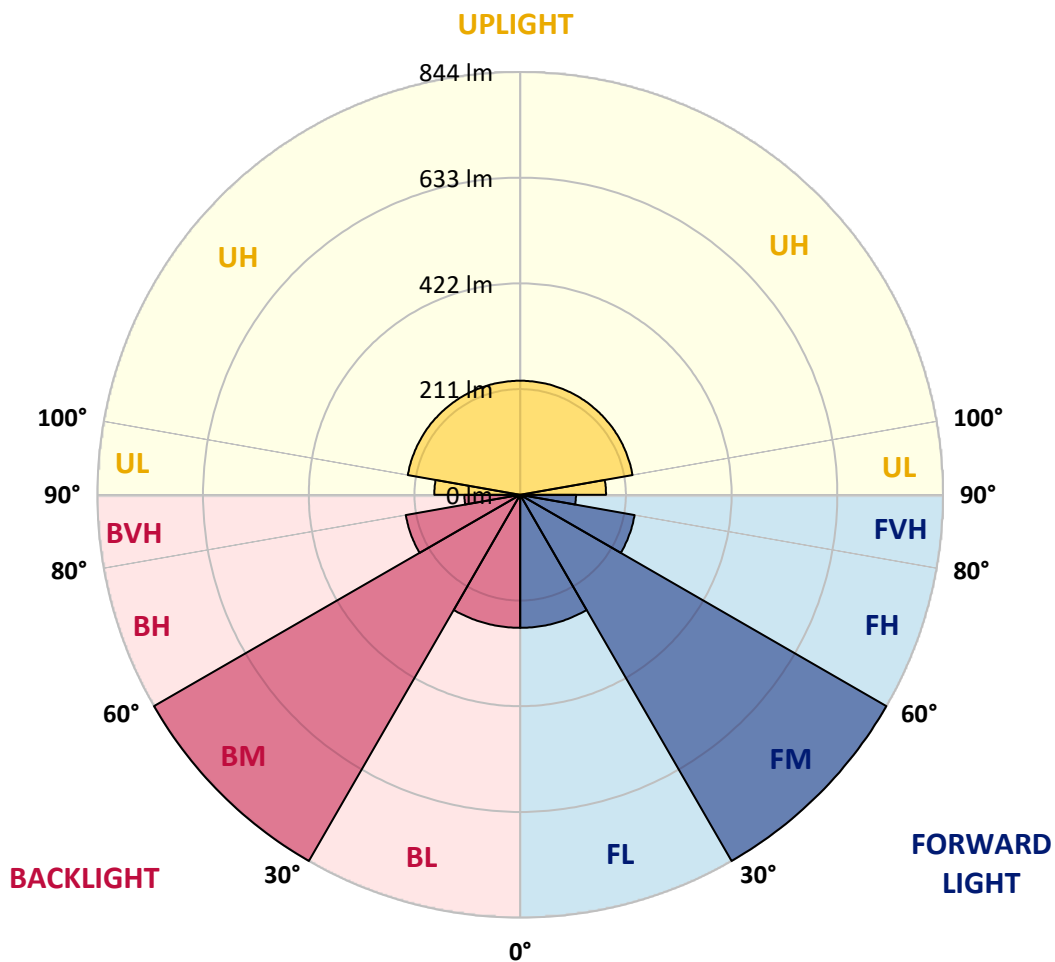
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.5	7.9			
FM (30°-60°)	844.3	25.1			
FH (60°-80°)	232.0	6.9			G0/660
FVH (80°-90°)	111.5	3.3			G2/225
BL (0°-30°)	265.5	7.9	B1/500		
BM (30°-60°)	844.3	25.1	B1/1000		
BH (60°-80°)	232.0	6.9	B1/500		G0/660
BVH (80°-90°)	111.5	3.3			G2/225
UL (90°-100°)	171.4	5.1		U3/500	
UH (100°-180°)	227.8	6.8		U3/500	

BUG Rating: B1-U3-G2

Type V Short





REPORT NUMBER: P239823

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	365.3	365.3	365.3	365.3	365.3	365.3	365.3	365.3	365.3	365.3	365.3
2.5°	375.2	375.2	375.2	374.3	375.2	376.1	377.0	377.0	376.5	375.2	374.3
5°	401.6	401.6	401.1	402.0	402.0	400.2	401.1	404.3	407.4	405.2	404.3
7.5°	465.6	464.3	461.1	458.4	455.3	455.3	462.0	466.0	473.2	474.1	471.9
10°	530.1	531.9	533.6	533.6	541.3	549.8	555.6	553.8	548.4	544.4	541.7
12.5°	548.9	550.2	565.9	605.3	634.4	658.1	638.0	607.5	583.3	567.7	565.9
15°	563.2	566.8	586.5	635.7	708.7	728.4	686.8	609.3	562.3	539.9	535.0
17.5°	577.5	581.5	614.7	685.9	743.6	738.7	688.5	605.7	537.2	507.7	504.1
20°	565.0	569.5	616.0	711.4	753.5	729.7	712.3	634.4	556.5	522.5	518.4
22.5°	569.9	574.4	621.4	714.1	740.0	741.4	714.5	668.0	576.6	537.7	531.4
25°	578.9	582.4	640.6	734.2	734.7	731.1	717.6	692.1	607.1	569.9	564.5
27.5°	578.9	582.0	647.4	725.7	730.6	722.6	739.6	749.0	683.6	650.5	651.8
30°	604.8	606.6	674.2	724.8	713.6	719.9	767.8	796.4	751.7	698.4	697.9
32.5°	655.4	663.9	735.1	755.7	711.8	717.6	774.9	825.1	796.0	732.0	724.8
35°	720.3	722.6	787.9	782.6	724.8	721.7	792.0	870.3	845.7	782.6	780.3
37.5°	741.4	744.5	822.4	808.1	740.5	743.2	820.2	925.4	924.5	873.9	857.8
40°	739.6	755.3	849.3	828.2	762.9	774.1	842.1	987.2	1033.3	993.9	986.7
42.5°	873.0	881.1	936.1	860.0	783.5	783.5	851.1	975.1	995.7	920.4	905.7
45°	886.9	886.4	946.9	886.0	788.8	770.5	819.3	929.0	982.7	933.0	911.0
47.5°	858.2	869.4	944.6	871.2	779.0	733.8	764.7	876.1	917.8	841.2	823.7
50°	827.3	835.8	893.1	803.6	730.2	697.9	721.2	801.8	818.4	726.2	712.7
52.5°	742.7	743.6	811.7	740.9	687.6	654.5	673.3	748.1	793.3	705.1	695.7
55°	629.5	641.5	727.9	684.1	637.5	608.9	612.4	625.0	585.1	453.1	422.2
57.5°	481.3	496.9	597.7	599.9	564.1	518.4	468.3	396.7	341.6	219.4	210.9
60°	327.7	341.1	417.2	436.0	450.4	398.0	324.1	282.9	274.4	190.3	184.0
62.5°	202.8	214.0	285.2	291.9	323.2	290.5	257.0	244.4	254.3	181.8	177.3
65°	187.6	195.2	247.6	237.7	245.3	243.5	228.8	226.5	238.6	177.3	174.2
67.5°	181.3	187.6	229.2	222.1	225.2	227.9	217.6	219.4	235.9	180.9	177.3
70°	178.2	184.9	223.4	218.5	221.6	224.3	218.0	215.3	226.1	182.2	177.3
72.5°	175.9	183.1	214.4	211.3	219.8	227.0	220.7	214.9	219.4	183.1	178.2
75°	171.9	179.1	206.4	208.2	221.2	229.7	221.6	212.7	212.2	181.3	175.5
77.5°	171.0	179.1	197.9	209.1	221.6	232.8	226.5	213.5	207.7	182.2	175.0
80°	169.7	178.6	201.9	216.2	225.2	231.0	228.3	219.4	210.9	188.9	181.3
82.5°	177.3	185.3	205.5	221.6	224.3	223.4	223.4	217.6	208.2	189.4	182.2
85°	186.7	193.0	214.0	223.4	221.2	215.3	212.7	212.2	207.7	194.3	188.5
87.5°	184.9	189.4	203.7	212.7	213.5	201.9	202.4	199.7	194.7	181.3	176.4
90°	172.8	175.9	192.1	201.5	195.6	186.2	182.2	176.8	177.3	165.2	161.6
92.5°	164.7	168.3	180.0	185.3	184.4	168.8	166.1	165.6	163.0	152.7	150.4
95°	154.0	156.2	166.1	173.3	168.8	152.7	150.0	147.7	148.2	144.2	144.6
97.5°	151.3	153.1	160.3	158.9	151.3	137.4	135.6	134.8	134.3	132.1	131.6
100°	145.5	145.5	147.7	143.7	134.8	124.5	121.8	122.2	122.7	120.0	119.1
102.5°	135.6	136.1	137.0	133.4	124.9	114.2	111.5	113.7	114.6	113.7	113.3
105°	128.5	128.0	128.5	124.5	115.1	105.7	102.5	104.8	107.0	107.4	106.5
107.5°	117.7	117.3	117.3	113.3	106.1	98.5	95.8	94.5	94.5	94.5	94.5
110°	102.1	102.5	102.5	100.7	97.1	92.7	89.1	86.4	87.3	86.9	87.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	94.9	94.9	94.0	92.7	89.1	84.6	80.6	78.8	77.9	77.5	77.9
115°	87.3	87.7	85.1	84.2	80.6	77.9	73.9	72.5	72.5	73.9	74.8
117.5°	80.6	80.6	78.8	76.6	73.4	71.2	69.4	68.5	68.5	70.3	70.3
120°	73.0	73.0	71.2	68.5	67.2	64.0	64.5	64.0	65.4	67.6	68.0
122.5°	64.5	64.5	62.7	60.4	61.3	59.1	58.2	56.4	59.1	61.8	62.2
125°	57.3	56.9	55.1	52.4	56.0	56.0	53.7	47.9	51.5	53.7	54.2
127.5°	52.4	51.9	49.7	47.0	51.5	54.2	49.2	43.4	45.2	47.5	48.4
130°	49.7	49.2	47.0	43.9	45.2	51.5	44.3	41.6	43.9	46.1	46.1
132.5°	47.9	47.5	45.7	42.5	40.3	47.0	39.8	40.7	43.9	46.1	46.1
135°	44.3	44.3	42.1	37.6	32.2	34.5	32.2	36.7	40.3	42.1	42.5
137.5°	38.1	38.1	36.3	32.2	26.0	24.6	25.5	31.3	35.4	37.2	37.2
140°	30.0	29.5	27.8	24.2	17.0	11.6	16.6	23.7	27.8	29.5	29.5
142.5°	21.0	20.6	18.4	14.8	9.0	4.0	9.0	14.3	18.4	20.1	20.6
145°	13.4	13.4	11.6	9.0	4.5	1.3	3.6	8.5	11.2	13.0	13.0
147.5°	8.5	8.5	7.2	4.9	1.3	0.9	1.3	4.0	6.7	8.1	8.5
150°	4.9	4.9	3.6	1.8	0.9	0.4	0.9	1.3	2.7	4.0	4.0
152.5°	1.8	1.3	0.9	0.9	0.4	0.4	0.4	0.9	0.9	1.3	1.3
155°	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
162.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)