

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: P458376

Luminaire Tested: **GALN-SA9D-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58013 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

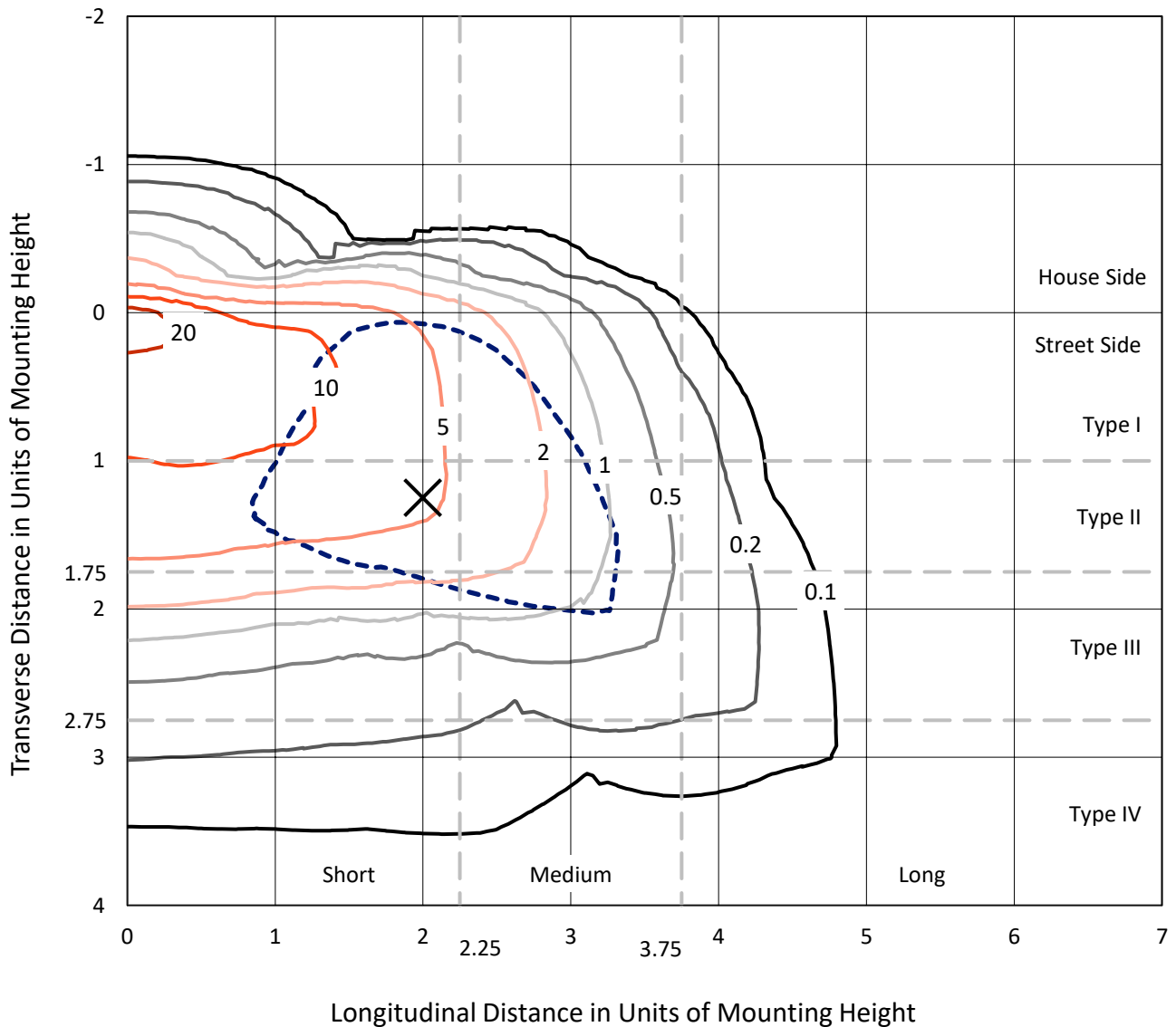
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

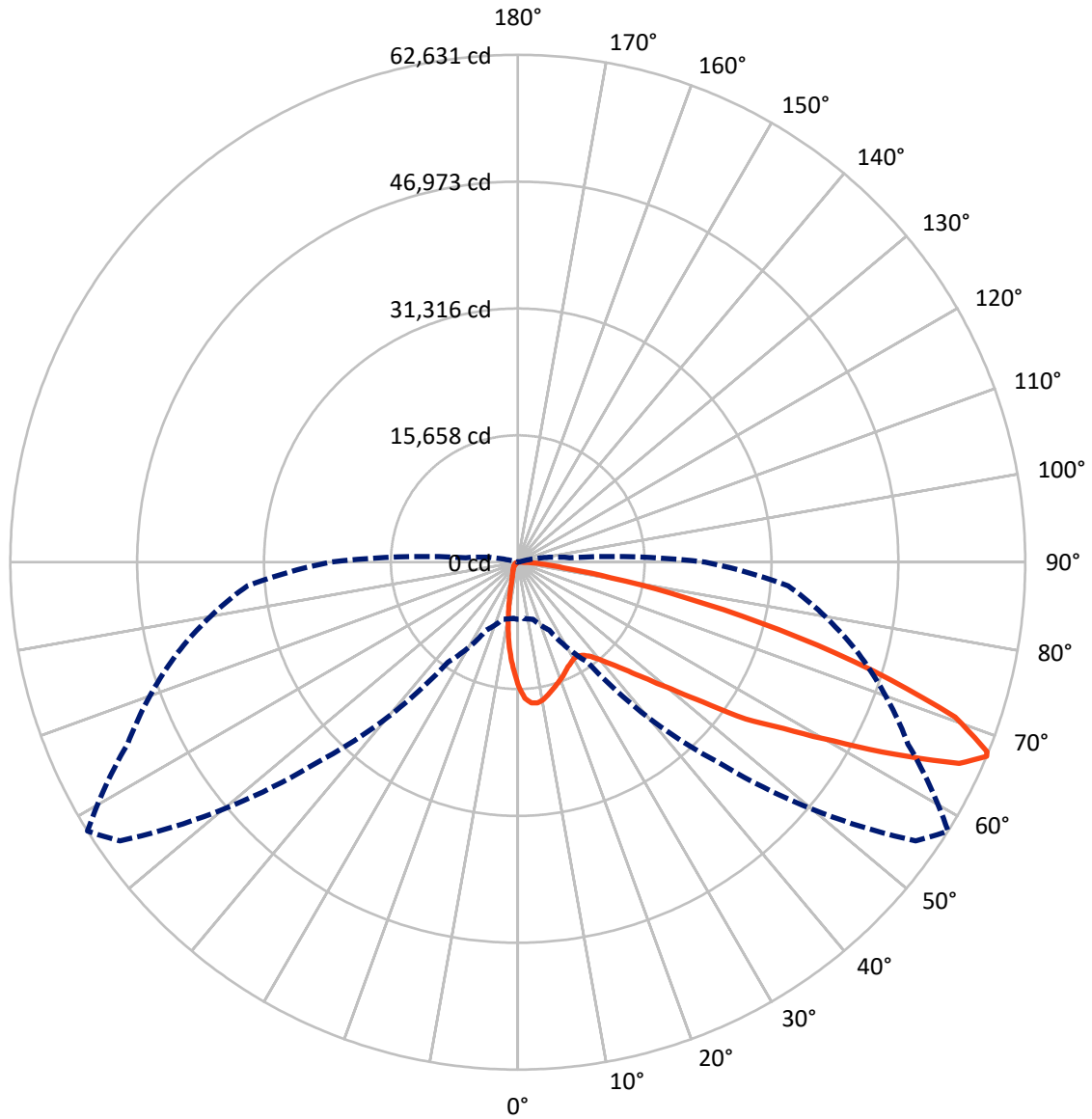
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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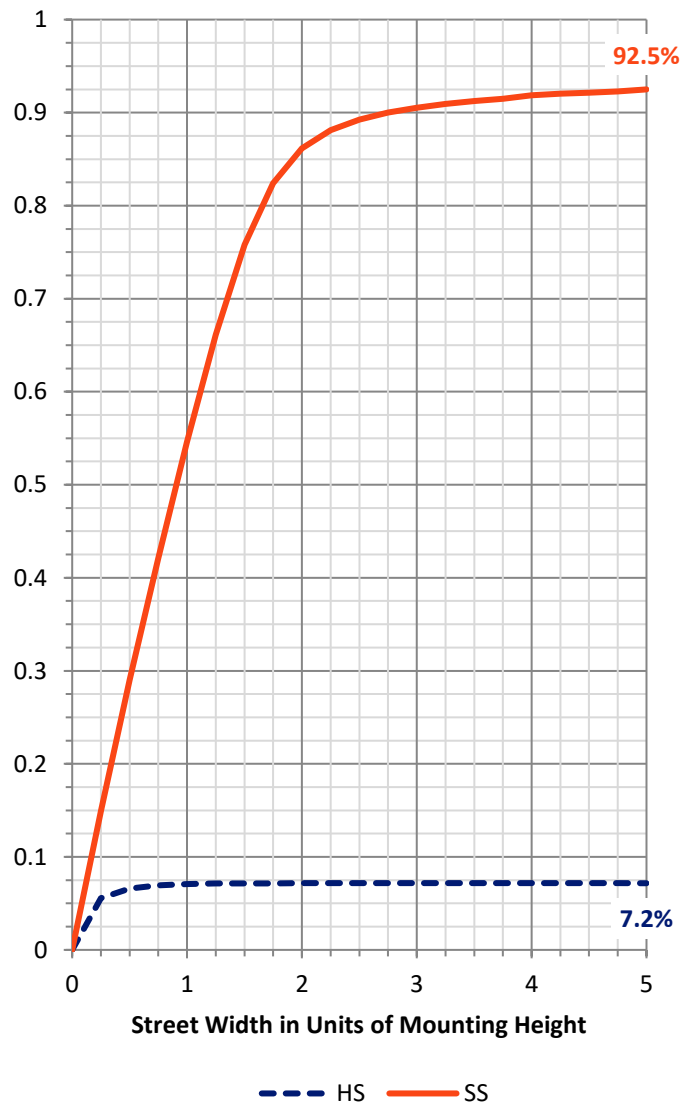
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4186.6	0.0	4186.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	53826.4	0.0	53826.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	58013.0	0.0	58013.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1247.9	2.2
10°-20°	2695.3	4.6
20°-30°	3652.3	6.3
30°-40°	5065.5	8.7
40°-50°	8078.9	13.9
50°-60°	13965.0	24.1
60°-70°	15952.4	27.5
70°-80°	6650.7	11.5
80°-90°	705.2	1.2
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°	58013.0	100.0
0°-180°	58013.0	100.0



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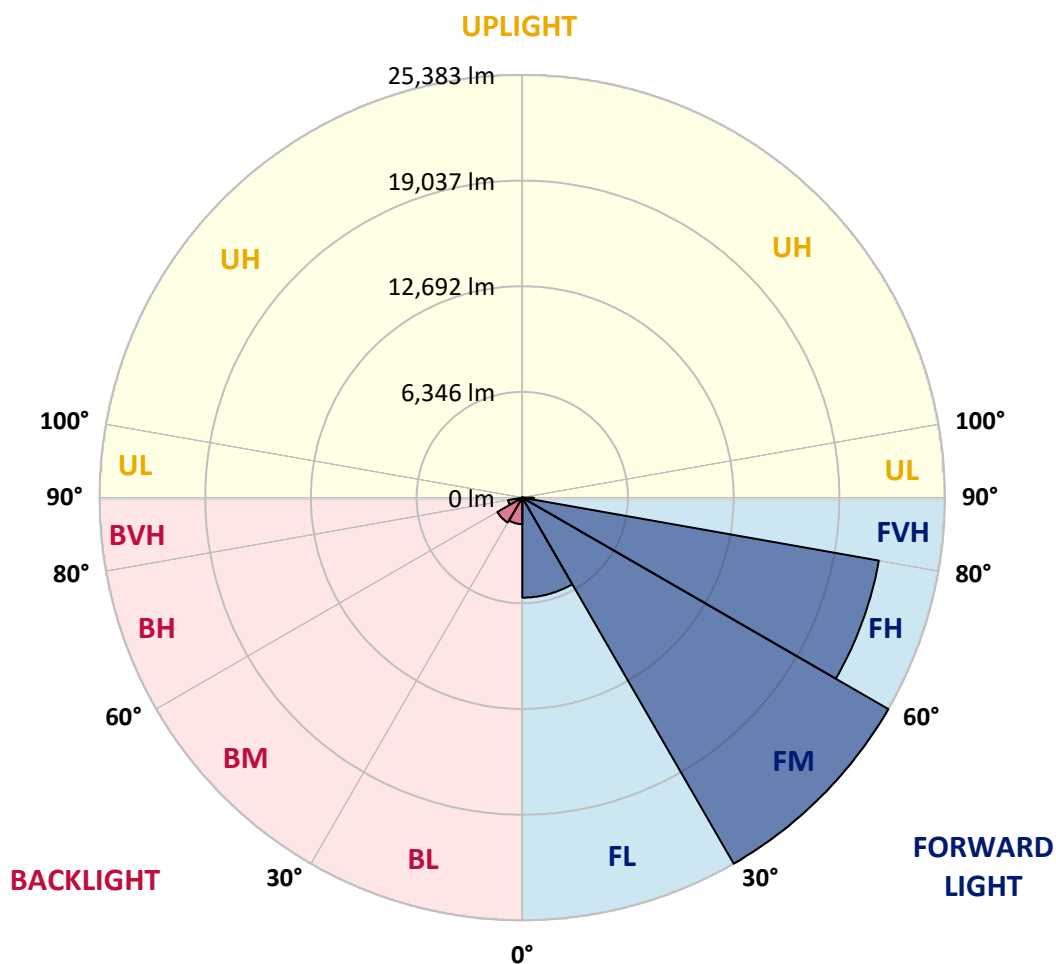
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6005.7	10.4			
FM (30°-60°)	25383.1	43.8			
FH (60°-80°)	21737.5	37.5			G5
FVH (80°-90°)	700.0	1.2			G4/750
BL (0°-30°)	1589.7	2.7	B3/2500		
BM (30°-60°)	1726.2	3.0	B2/2500		
BH (60°-80°)	865.5	1.5	B2/1000		G2/1000
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7
2.5°	17848.1	17875.3	17774.5	17693.1	17483.7	17258.9	16960.4	16801.4	16530.1	16061.0	15541.5
5°	18266.8	18301.7	18286.2	18266.8	18185.4	17968.3	17588.4	17448.9	17049.6	16285.9	15347.7
7.5°	17336.4	17464.4	17479.9	17631.1	17774.5	17793.9	17650.4	17545.8	17177.5	16282.0	15002.7
10°	16103.6	16188.9	16313.0	16487.4	16832.5	17119.3	17258.9	17243.4	17030.2	16161.8	14599.5
12.5°	14859.2	14905.8	15095.7	15394.2	15816.8	16305.2	16677.4	16751.1	16754.9	16018.4	14262.2
15°	13789.3	13769.9	13917.2	14262.2	14855.4	15467.9	16134.7	16251.0	16437.0	15878.8	13948.2
17.5°	12874.4	12975.2	12998.4	13378.4	13925.0	14719.7	15568.7	15774.1	16146.3	15758.6	13688.5
20°	12308.4	12362.7	12413.1	12626.3	13118.6	13956.0	15037.6	15320.6	15874.9	15650.1	13397.7
22.5°	12141.7	12176.6	12133.9	12199.9	12548.8	13293.1	14459.9	14836.0	15615.2	15549.3	13161.3
25°	12269.6	12304.5	12203.7	12126.2	12246.4	12754.2	13901.7	14359.2	15405.9	15529.9	12982.9
27.5°	12579.8	12645.7	12506.1	12366.5	12296.8	12463.5	13463.6	13994.7	15262.4	15622.9	12901.5
30°	13064.3	13103.1	12998.4	12827.9	12668.9	12502.2	13234.9	13742.8	15223.6	15840.0	12893.8
32.5°	13591.6	13673.0	13614.8	13502.4	13296.9	12901.5	13300.8	13750.5	15316.7	16154.0	12990.7
35°	14242.9	14335.9	14390.2	14366.9	14103.3	13611.0	13719.5	14099.4	15564.8	16731.7	13254.3
37.5°	14882.5	14963.9	15270.2	15374.8	15142.2	14677.0	14533.6	14785.6	16111.4	17487.6	13731.1
40°	15615.2	15723.7	16154.0	16553.3	16440.9	15952.5	15688.8	15898.2	16948.8	18627.4	14634.4
42.5°	16316.9	16510.7	17165.9	17871.4	17976.1	17429.5	17255.0	17324.8	18189.3	20267.2	15894.3
45°	17313.2	17495.4	18340.5	19298.0	19790.4	19363.9	19185.6	19174.0	19891.1	22573.8	17937.3
47.5°	18751.4	18914.2	19910.5	20856.4	21732.6	21790.7	21453.4	21569.7	22031.1	25272.0	20441.6
50°	20515.3	20899.1	21554.2	22538.9	23709.7	24655.6	24760.2	24605.2	25000.6	28396.5	23449.9
52.5°	23077.8	23225.1	23826.0	24636.2	26008.5	27613.5	28857.9	28644.6	28520.6	31373.8	26489.2
55°	24989.0	25186.7	26120.9	27233.5	29245.5	31362.2	34060.3	34134.0	32567.8	34234.8	29462.6
57.5°	24411.3	24713.7	26128.7	28365.5	32788.8	36657.7	38665.8	38716.2	36312.7	37014.4	32819.8
60°	21445.7	21589.1	23616.6	26601.6	33091.2	42395.2	45198.0	44790.9	40123.4	40123.4	35785.5
62.5°	15208.1	15433.0	17076.7	21468.9	29885.2	44387.8	53021.1	52179.9	45372.4	43096.8	37553.2
65°	9718.8	9501.7	10591.0	13552.8	22263.7	41445.4	59832.4	59882.8	50311.3	44287.0	36587.9
67°	7040.0	6954.7	7268.7	9265.2	15095.7	34839.6	59975.8	62631.3	53149.0	43534.9	33502.1
67.5°	6439.1	6505.0	6733.8	8358.1	13715.6	31703.3	59324.5	62468.5	53788.7	43081.3	32385.6
70°	4880.7	4768.3	5016.4	5911.9	8222.4	19999.7	51032.4	57293.2	52994.0	38580.5	25876.7
72.5°	3589.8	3578.2	3923.2	4834.2	6330.6	10653.1	38309.2	45938.4	43294.5	29377.3	16293.6
75°	2422.9	2531.5	3081.9	4039.5	5737.5	6908.2	26117.1	33327.7	30055.8	16681.3	6660.1
77.5°	1380.1	1387.8	1984.9	3244.8	5152.1	5559.1	15475.6	21232.5	15909.8	5547.5	1977.1
80°	597.0	655.2	984.7	2357.0	4272.1	4923.4	8873.7	11668.7	6435.3	1174.6	639.6
82.5°	221.0	259.7	434.2	1449.9	3116.8	4055.0	5361.4	5570.8	2182.6	414.8	399.3
85°	0.0	7.8	158.9	678.4	1624.3	1810.4	3582.0	3302.9	965.3	197.7	259.7
87.5°	0.0	0.0	0.0	69.8	213.2	674.5	1112.6	1240.5	232.6	69.8	62.0
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°	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7	15378.7
2.5°	15262.4	15010.4	14378.5	13746.6	13277.6	12886.0	12296.8	11975.0	11804.4	11552.4	11568.0
5°	14878.6	14366.9	13254.3	12102.9	11172.5	10265.4	9179.9	8741.9	8373.6	8164.2	8024.7
7.5°	14308.8	13552.8	11905.2	10370.1	8939.6	7354.0	6163.9	5369.2	4834.2	4636.5	4446.5
10°	13684.6	12680.6	10536.8	8408.5	6423.6	4787.7	3779.7	3050.9	2791.2	2550.8	2574.1
12.5°	13107.0	11885.8	9280.7	6636.8	4500.8	3043.2	2372.5	2074.0	1988.7	1961.6	1961.6
15°	12634.0	11126.0	7931.6	4989.3	3085.8	2186.4	1899.6	1818.2	1787.1	1779.4	1779.4
17.5°	12130.1	10405.0	6714.4	3686.7	2244.6	1829.8	1732.9	1678.6	1667.0	1659.2	1659.2
20°	11680.4	9680.0	5559.1	2744.7	1814.3	1647.6	1585.6	1550.7	1539.0	1531.3	1535.2
22.5°	11253.9	9036.5	4473.7	2074.0	1597.2	1500.3	1438.2	1403.4	1380.1	1360.7	1364.6
25°	10874.0	8416.2	3597.5	1698.0	1438.2	1353.0	1290.9	1240.5	1190.1	1166.9	1163.0
27.5°	10606.5	7873.5	2802.8	1453.7	1294.8	1201.8	1124.2	1062.2	996.3	961.4	953.7
30°	10385.6	7323.0	2217.5	1283.2	1151.4	1062.2	965.3	876.1	806.3	771.5	755.9
32.5°	10242.1	6799.7	1748.4	1143.6	1031.2	922.6	814.1	724.9	647.4	612.5	604.8
35°	10218.9	6361.6	1430.5	1027.3	922.6	806.3	693.9	597.0	531.1	496.2	488.5
37.5°	10385.6	6024.3	1197.9	934.3	833.5	705.6	581.5	492.3	434.2	407.0	403.2
40°	10831.4	5811.1	1038.9	856.7	752.1	612.5	496.2	418.7	360.5	333.4	333.4
42.5°	11680.4	5818.9	934.3	783.1	670.7	523.3	422.6	348.9	298.5	275.2	267.5
45°	13006.2	6082.5	845.1	709.4	593.1	453.6	360.5	286.9	236.5	217.1	217.1
47.5°	14781.7	6605.8	767.6	635.8	523.3	387.7	306.3	232.6	190.0	170.6	170.6
50°	17103.8	7447.1	701.7	573.7	465.2	333.4	248.1	190.0	147.3	131.8	127.9
52.5°	19530.6	8486.0	624.1	519.5	399.3	283.0	201.6	147.3	112.4	100.8	96.9
55°	22209.4	9501.7	550.5	465.2	325.6	236.5	158.9	116.3	81.4	69.8	69.8
57.5°	24911.4	10498.0	461.3	387.7	255.9	174.4	124.1	85.3	54.3	42.6	42.6
60°	27198.7	10819.8	391.5	314.0	193.8	124.1	89.2	54.3	31.0	19.4	19.4
62.5°	27512.7	9734.3	329.5	240.4	139.6	85.3	46.5	31.0	11.6	7.8	7.8
65°	25806.9	7908.4	275.2	182.2	93.0	42.6	19.4	11.6	3.9	0.0	0.0
67°	23124.3	6412.0	224.8	135.7	65.9	27.1	11.6	3.9	0.0	0.0	0.0
67.5°	22438.1	6113.5	217.1	127.9	58.1	23.3	7.8	3.9	0.0	0.0	0.0
70°	17607.8	4578.3	155.1	77.5	34.9	15.5	0.0	0.0	0.0	0.0	0.0
72.5°	10943.8	2589.6	112.4	46.5	23.3	7.8	0.0	0.0	0.0	0.0	0.0
75°	4136.4	907.1	77.5	31.0	15.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1287.1	345.0	46.5	23.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	434.2	131.8	31.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	267.5	54.3	19.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	166.7	23.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.0	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)