

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: P458433

Luminaire Tested: **GALN-SA9D-760-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-760-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70003 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

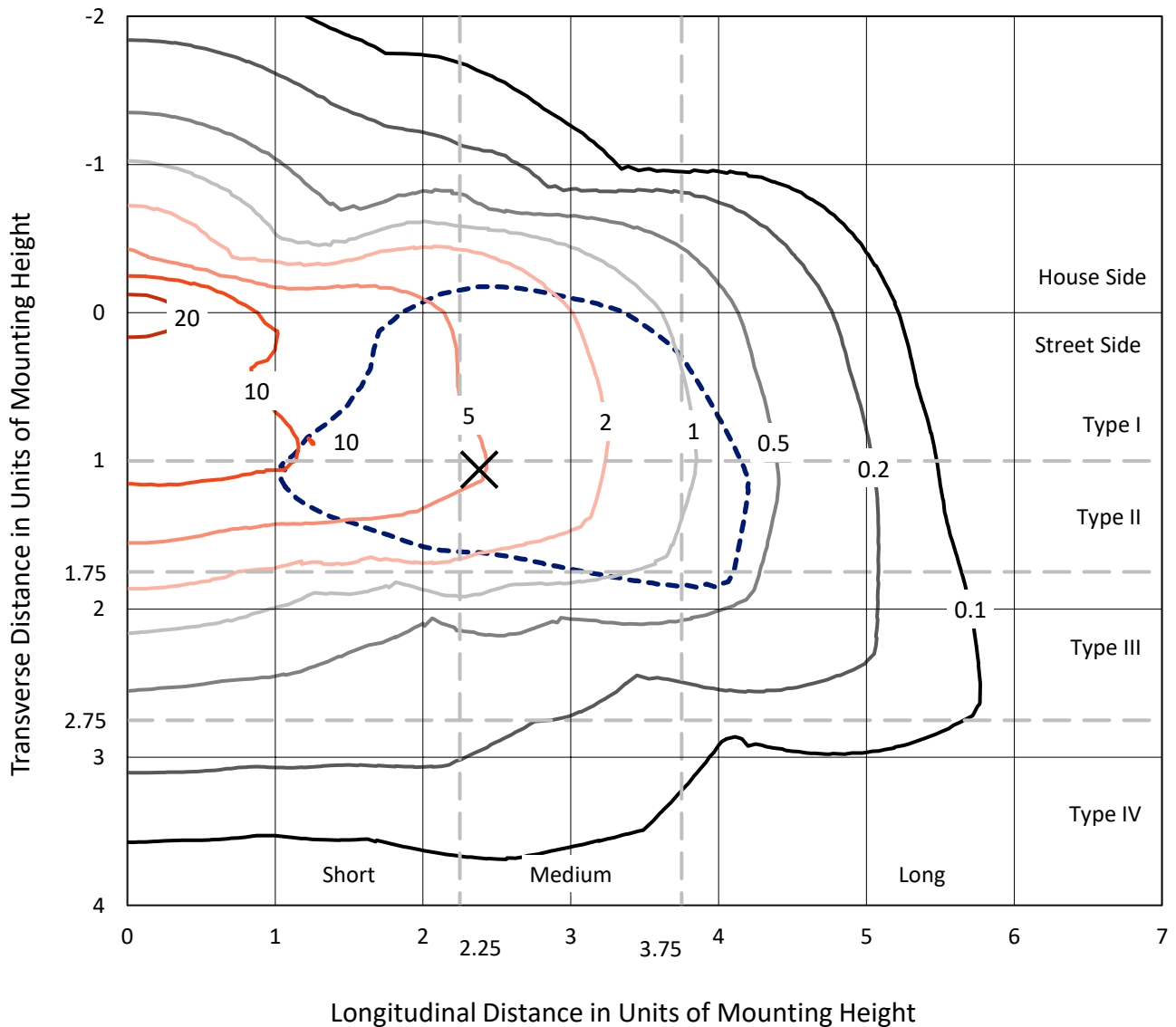
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

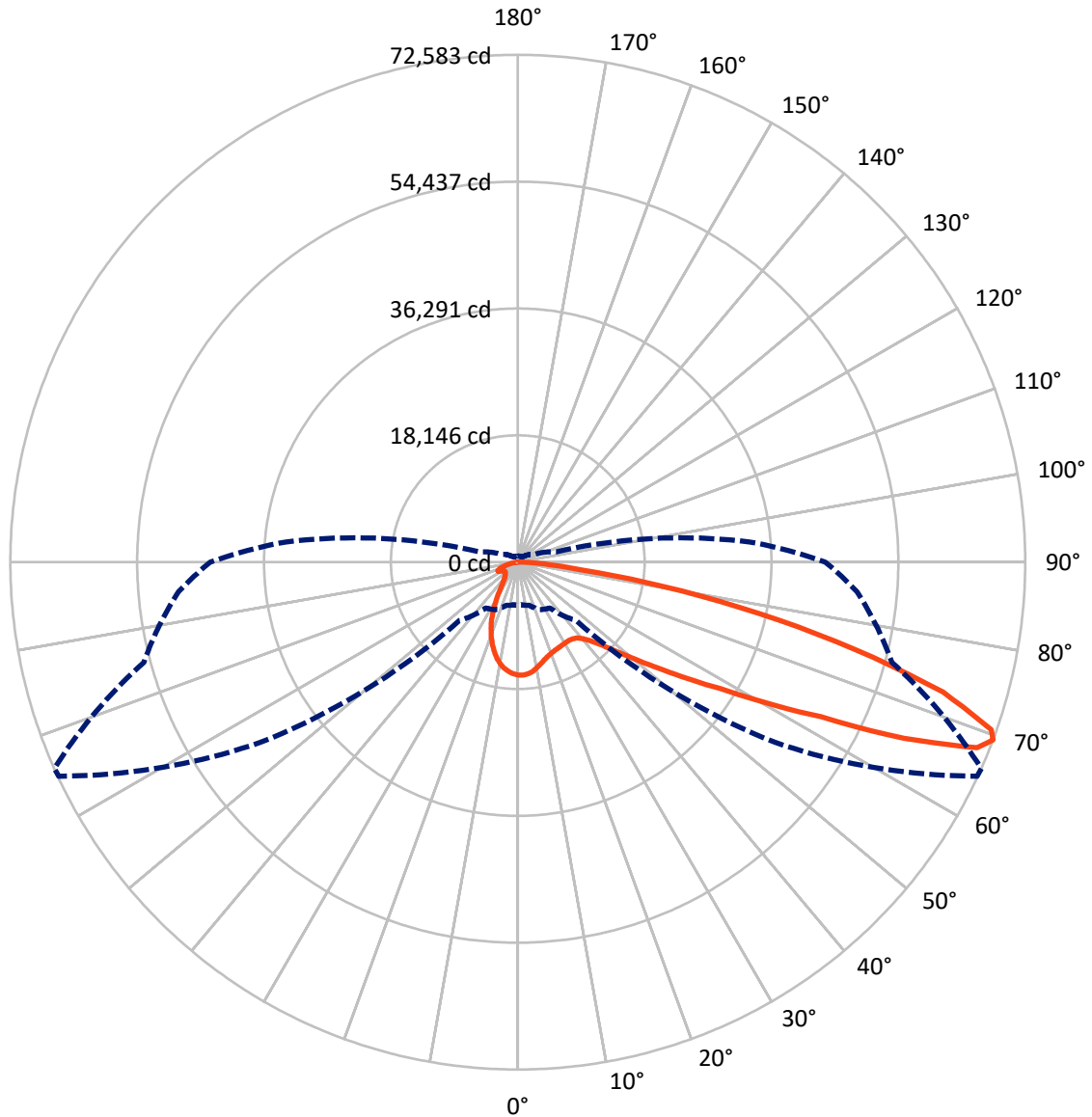
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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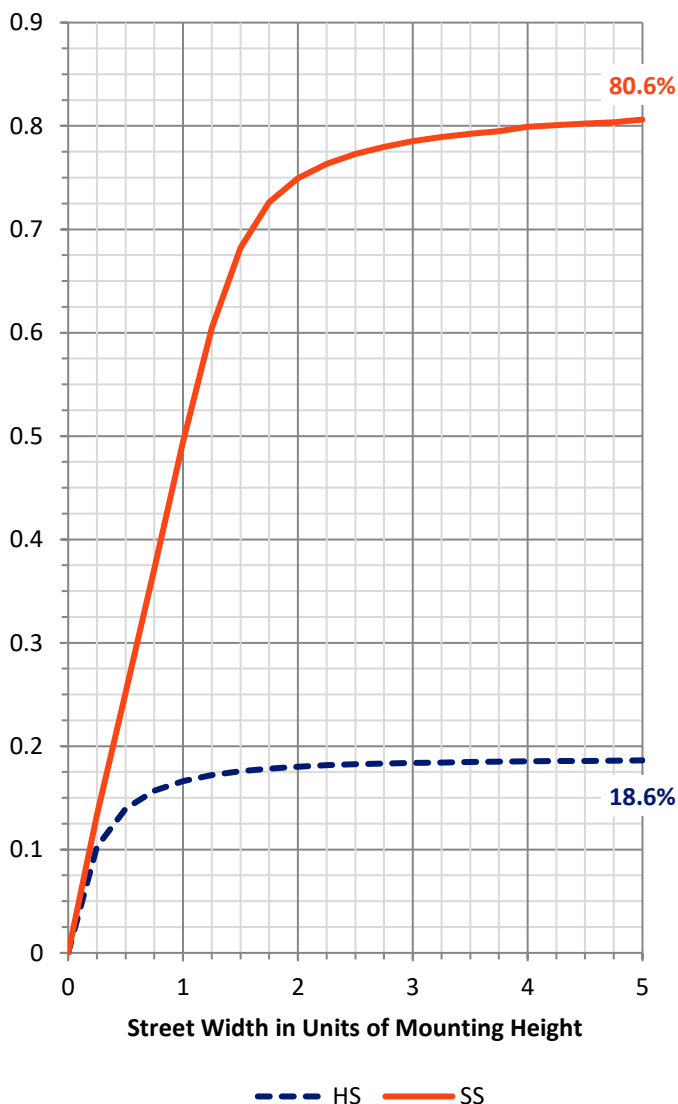
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13164.9	0.0	13164.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	56838.1	0.0	56838.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	70003.0	0.0	70003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1403.8	2.0
10°-20°	3329.7	4.8
20°-30°	4533.0	6.5
30°-40°	6091.3	8.7
40°-50°	9095.4	13.0
50°-60°	14467.7	20.7
60°-70°	17794.5	25.4
70°-80°	11577.9	16.5
80°-90°	1709.7	2.4
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°	70003.0	100.0
0°-180°	70003.0	100.0

Coefficient of Utilization



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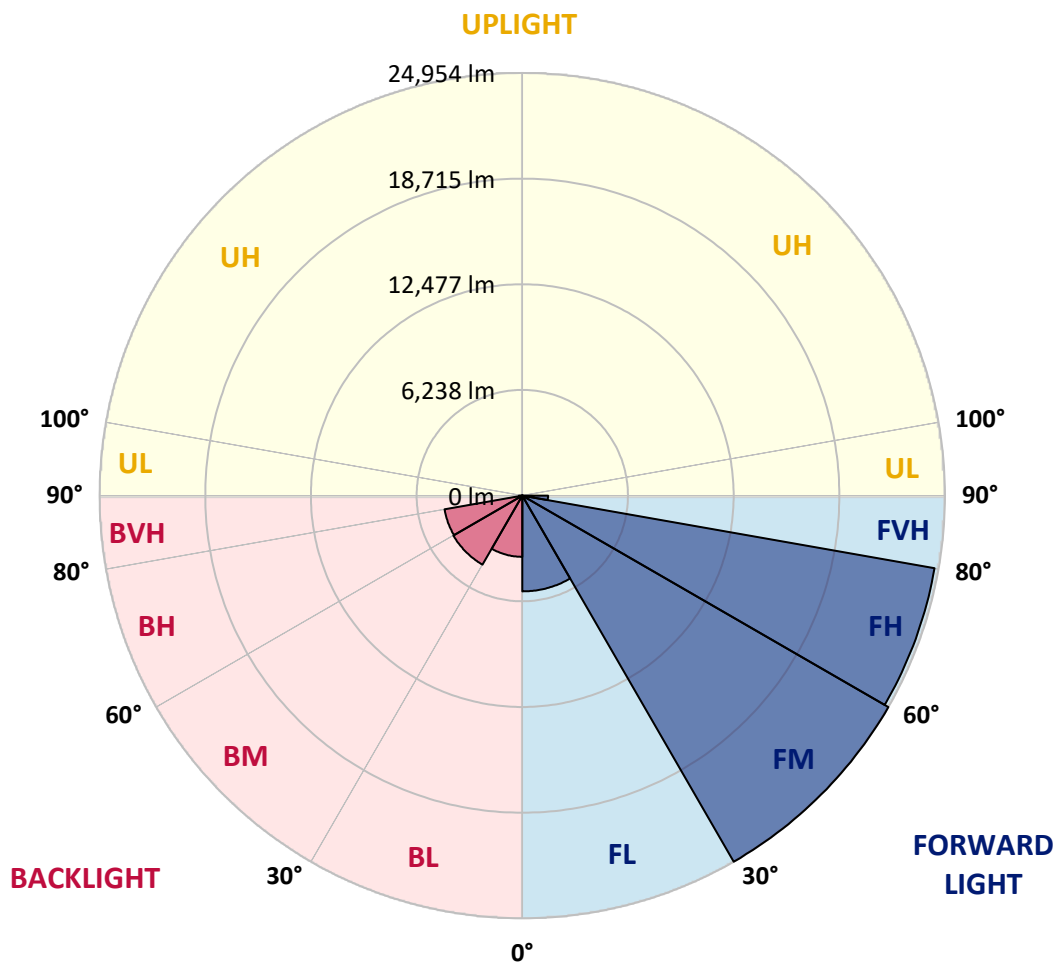
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5652.7	8.1			
FM	(30°-60°)	24954.0	35.6			
FH	(60°-80°)	24711.4	35.3			G5
FVH	(80°-90°)	1520.0	2.2			G5
BL	(0°-30°)	3613.8	5.2	B4/5000		
BM	(30°-60°)	4700.5	6.7	B3/5000		
BH	(60°-80°)	4661.0	6.7	B4/5000		G4/5000
BVH	(80°-90°)	189.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6
2.5°	15599.6	15661.7	15731.5	15809.0	15956.3	16037.7	16095.9	16161.8	16169.5	16204.4	16177.3
5°	14448.3	14521.9	14626.6	14773.9	14994.9	15339.9	15696.6	15987.3	16022.2	16185.0	16231.5
7.5°	13486.9	13529.5	13614.8	13851.3	14165.3	14549.1	15068.5	15657.8	15743.1	16130.7	16266.4
10°	12703.8	12746.4	12847.2	13091.5	13401.6	13882.3	14452.2	15227.5	15297.3	15964.1	16274.2
12.5°	12118.4	12157.2	12265.7	12506.1	12862.7	13312.4	13940.4	14762.3	14863.1	15743.1	16200.5
15°	11672.6	11746.3	11835.4	12033.1	12409.2	12843.3	13452.0	14335.9	14417.3	15510.5	16150.1
17.5°	11482.6	11517.5	11579.6	11761.8	12037.0	12463.4	13075.9	14002.5	14099.4	15347.7	16138.5
20°	11490.4	11525.3	11536.9	11637.7	11835.4	12203.7	12808.5	13738.9	13855.2	15204.2	16157.9
22.5°	11754.0	11757.9	11715.2	11680.4	11757.9	12064.1	12618.5	13541.1	13676.8	15142.2	16173.4
25°	12161.1	12230.8	12168.8	12006.0	11862.6	12009.9	12544.8	13432.6	13560.5	15053.0	16154.0
27.5°	12820.1	12831.7	12781.3	12560.4	12188.2	12079.6	12513.8	13351.2	13459.7	14987.1	16057.1
30°	13704.0	13669.1	13622.6	13378.3	12793.0	12347.1	12579.7	13277.5	13390.0	14890.2	15940.8
32.5°	14599.5	14708.0	14665.4	14378.5	13618.7	12866.6	12793.0	13269.8	13362.8	14816.6	15812.9
35°	15549.3	15599.6	15801.2	15653.9	14874.7	13707.8	13192.2	13390.0	13463.6	14820.4	15723.7
37.5°	16293.6	16429.3	16902.2	17030.1	16297.4	14820.4	13839.6	13731.1	13762.1	15010.4	15758.6
40°	17193.0	17425.5	18034.2	18557.5	18076.8	16266.4	14940.6	14363.0	14401.8	15467.8	15987.3
42.5°	18332.7	18495.5	19313.5	20022.9	19945.4	18177.6	16274.2	15398.1	15417.4	16378.9	16627.0
45°	19666.3	19898.9	20817.6	21883.7	22065.9	20340.8	18200.9	16964.2	16952.6	17793.8	17821.0
47.5°	21372.0	21515.4	22426.4	23589.4	24326.0	23058.3	20538.5	19212.7	19088.6	19856.2	19635.2
50°	22942.0	23166.9	23856.9	25128.5	26962.1	26241.1	23612.7	22127.9	21837.2	22554.4	22182.2
52.5°	23601.1	23837.5	24419.0	25996.8	29222.2	30358.1	27516.5	25605.3	25120.7	25671.2	25535.5
55°	22457.4	22763.7	23306.4	25225.4	30214.6	35107.0	32781.0	29625.4	29272.6	29036.1	29074.9
57.5°	19383.3	19674.0	20406.7	22523.3	29028.4	38553.3	40297.8	34792.9	34037.0	32947.7	33133.7
60°	14754.5	14936.7	15316.7	17662.0	25512.2	39448.8	48834.2	41325.1	40844.4	36843.7	36975.5
62.5°	10478.6	10684.1	10947.7	12118.4	18677.7	36925.1	55517.5	50446.9	48729.5	40879.3	40751.4
65°	8509.3	8369.7	8687.6	9234.2	10959.3	28617.4	57021.7	63108.0	60743.3	46194.2	44418.7
67.5°	6997.4	6850.0	7164.1	8137.1	8334.8	16611.5	51602.1	71326.5	70853.6	51974.3	48144.1
69°	6194.9	6117.4	6392.6	7501.3	8001.4	11796.7	44953.7	72470.1	72582.6	55381.8	48717.9
70°	5582.4	5613.4	5880.9	7179.6	7850.2	9726.5	38421.5	70892.3	71846.0	57083.7	48097.6
72.5°	4109.3	4175.2	4547.3	5946.8	7706.8	8253.4	22864.5	61921.8	63608.1	57184.5	44000.0
75°	2872.6	2841.6	3171.1	4477.5	7280.4	8179.7	13428.7	47888.3	49799.5	49427.3	36971.6
77.5°	1880.2	1930.6	2194.2	3163.3	6125.1	8117.7	8753.5	33975.0	35215.5	33056.2	21868.2
80°	1325.8	1321.9	1469.3	2159.3	4543.4	7799.8	7167.9	21414.6	21100.6	12990.7	6485.6
82.5°	759.8	814.1	984.7	1519.6	3039.3	6865.6	6594.2	10242.1	9350.5	3702.2	2190.3
85°	422.6	441.9	585.4	918.8	1775.5	5171.5	5756.8	4659.7	4396.1	1546.8	942.0
87.5°	135.7	147.3	244.2	465.2	806.3	2442.3	3260.3	2151.5	1984.8	558.2	379.9
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°	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6	16165.6
2.5°	16188.9	16235.4	16111.4	15991.2	15882.6	15731.5	15595.8	15483.3	15405.8	15394.2	15355.4
5°	16243.2	16247.0	16010.6	15692.7	15382.6	15041.4	14688.6	14436.7	14200.2	14068.4	14002.5
7.5°	16281.9	16247.0	15820.6	15305.0	14708.0	14087.8	13467.5	12971.3	12587.5	12436.3	12494.4
10°	16266.4	16157.9	15533.7	14708.0	13839.6	12913.1	12021.5	11323.7	10684.1	10354.5	10362.3
12.5°	16181.1	16002.8	15107.3	14037.4	12761.9	11521.4	10156.8	9214.8	8474.4	8036.3	7900.6
15°	16107.5	15797.4	14607.2	13126.3	11540.8	9769.2	8106.1	6943.1	6322.8	5977.8	5973.9
17.5°	16030.0	15599.6	14060.6	12161.1	10137.4	7858.0	6113.5	5225.7	4935.0	4969.9	4911.7
20°	15948.5	15367.0	13490.7	11087.2	8427.8	5861.5	4578.3	4217.8	4299.2	4458.1	4481.4
22.5°	15855.5	15118.9	12878.2	9904.8	6629.1	4411.6	3713.8	3659.6	3868.9	4117.0	4151.9
25°	15712.1	14808.8	12106.8	8668.2	5113.3	3554.9	3252.5	3291.3	3496.7	3706.1	3729.3
27.5°	15510.5	14425.0	11327.6	7125.3	3841.8	3050.9	2973.4	3023.8	3124.6	3252.5	3283.5
30°	15239.1	13990.8	10432.1	5791.7	3078.1	2798.9	2767.9	2795.1	2853.2	2907.5	2923.0
32.5°	14967.8	13572.2	9528.8	4434.9	2744.7	2632.2	2601.2	2601.2	2601.2	2609.0	2612.9
35°	14715.8	13176.7	8559.6	3454.1	2570.2	2500.4	2457.8	2411.3	2403.5	2376.4	2376.4
37.5°	14576.2	12816.2	7528.5	2892.0	2442.3	2391.9	2333.7	2256.2	2213.6	2217.4	2209.7
40°	14603.3	12579.7	6590.3	2574.1	2337.6	2283.3	2194.2	2105.0	2077.9	2077.9	2070.1
42.5°	14909.6	12502.2	5690.9	2407.4	2236.8	2174.8	2062.4	1981.0	1965.5	1961.6	1969.3
45°	15615.2	12692.2	4884.6	2298.9	2151.5	2058.5	1946.1	1872.4	1856.9	1856.9	1853.0
47.5°	16991.4	13308.5	4307.0	2229.1	2089.5	1969.3	1853.0	1779.4	1752.2	1744.5	1744.5
50°	19131.3	14646.0	3876.7	2167.0	2012.0	1887.9	1767.8	1682.5	1639.8	1635.9	1632.1
52.5°	22104.7	16731.6	3710.0	2120.5	1926.7	1802.6	1670.8	1589.4	1535.2	1523.5	1515.8
55°	25582.0	19643.0	3938.7	2085.6	1837.5	1705.7	1570.0	1484.8	1434.4	1411.1	1407.2
57.5°	29609.9	23139.7	4807.0	2039.1	1756.1	1601.1	1469.3	1384.0	1329.7	1302.6	1294.8
60°	33226.8	26733.4	6322.8	2012.0	1686.3	1488.6	1353.0	1275.4	1225.0	1197.9	1194.0
62.5°	37200.4	30160.4	8133.2	2085.6	1655.3	1380.1	1244.4	1174.6	1132.0	1104.8	1104.8
65°	41445.3	33591.2	9331.1	2333.7	1701.9	1294.8	1128.1	1070.0	1031.2	1011.8	1007.9
67.5°	44306.3	34777.4	7687.4	2589.6	1818.1	1201.8	1015.7	969.2	945.9	926.5	926.5
69°	43996.1	33277.2	5671.5	2655.5	1853.0	1155.2	953.7	918.8	887.8	880.0	872.2
70°	43015.3	31567.6	4752.8	2612.9	1825.9	1112.6	914.9	872.2	845.1	837.4	833.5
72.5°	38312.9	27376.9	3539.4	2271.7	1554.5	965.3	810.2	771.5	748.2	736.6	736.6
75°	31831.2	22376.0	2764.1	1806.5	1217.3	814.1	693.9	662.9	643.5	635.8	631.9
77.5°	17840.4	12494.4	1984.8	1415.0	922.6	659.0	581.5	554.4	535.0	527.2	527.2
80°	4969.9	3570.4	1166.9	934.3	628.0	500.1	461.3	441.9	414.8	395.4	407.0
82.5°	1872.4	1546.8	666.8	562.1	399.3	333.4	321.8	306.3	294.6	267.5	267.5
85°	911.0	752.1	426.4	298.5	221.0	174.4	166.7	158.9	151.2	131.8	135.7
87.5°	314.0	333.4	186.1	108.5	65.9	42.6	34.9	19.4	19.4	19.4	19.4
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)