

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: P319651

Luminaire Tested: **GAN-SA7C-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45564 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

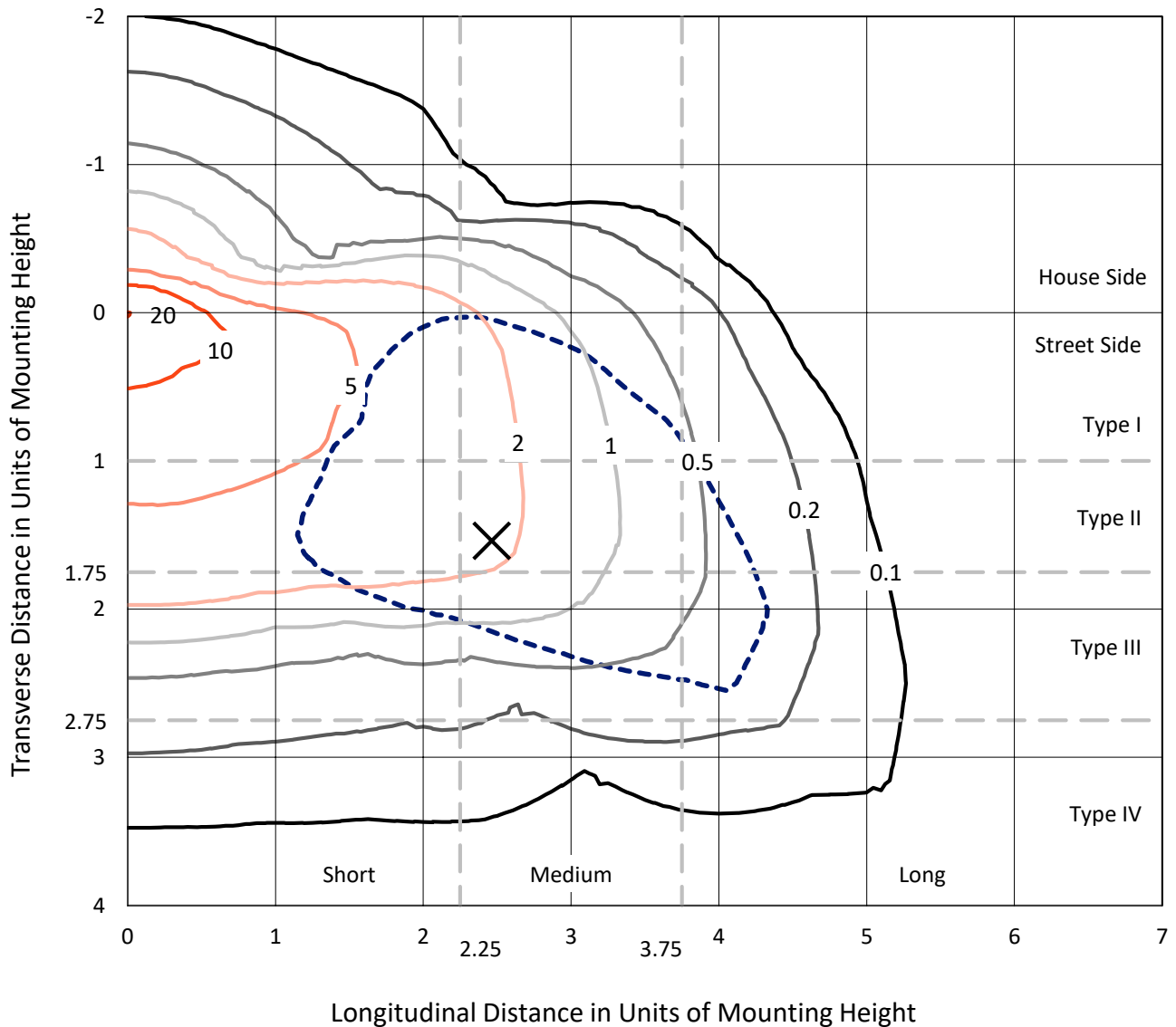
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319651
 CATALOG NUMBER: GAN-SA7C-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

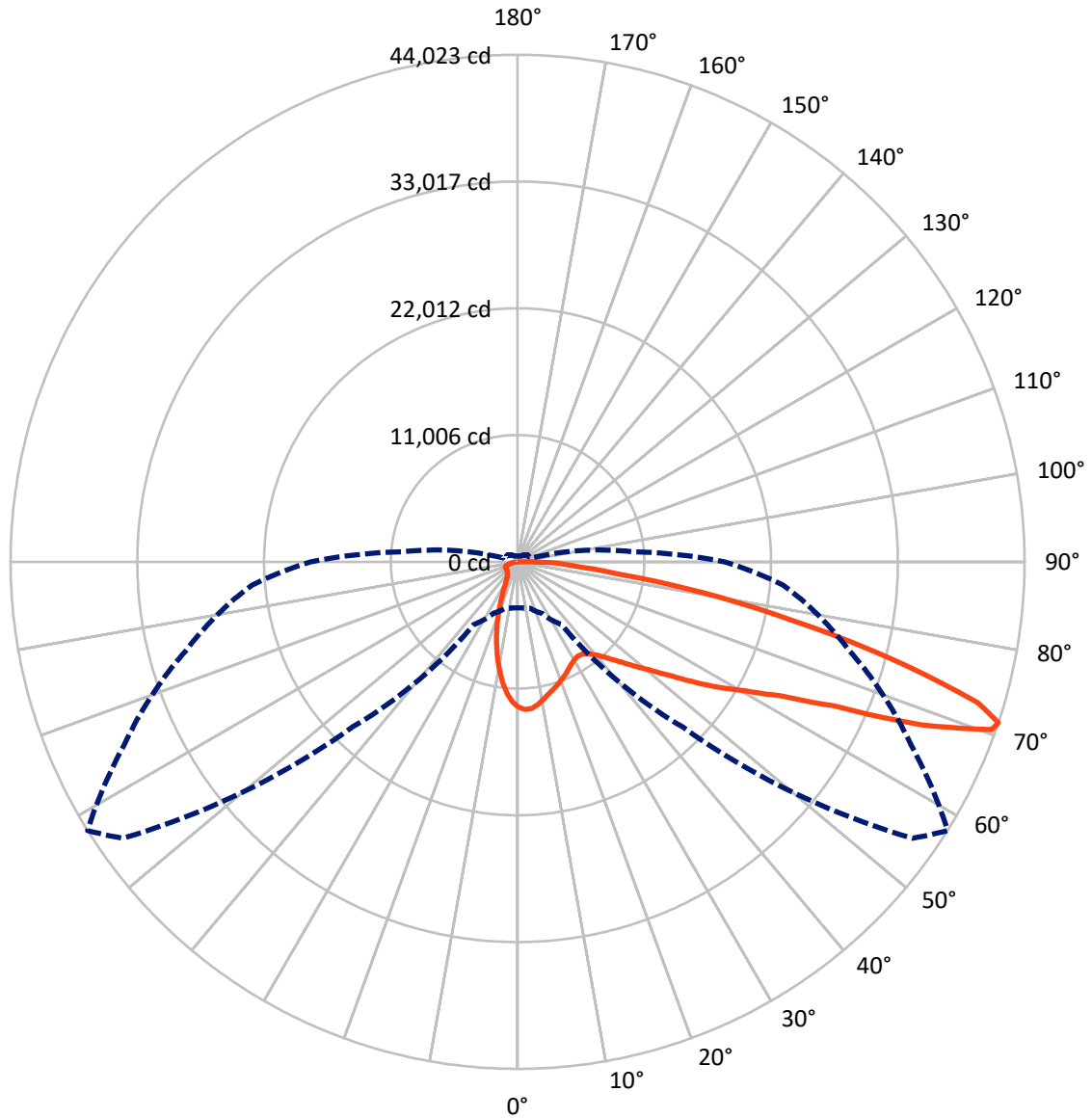
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GAN-SA7C-730-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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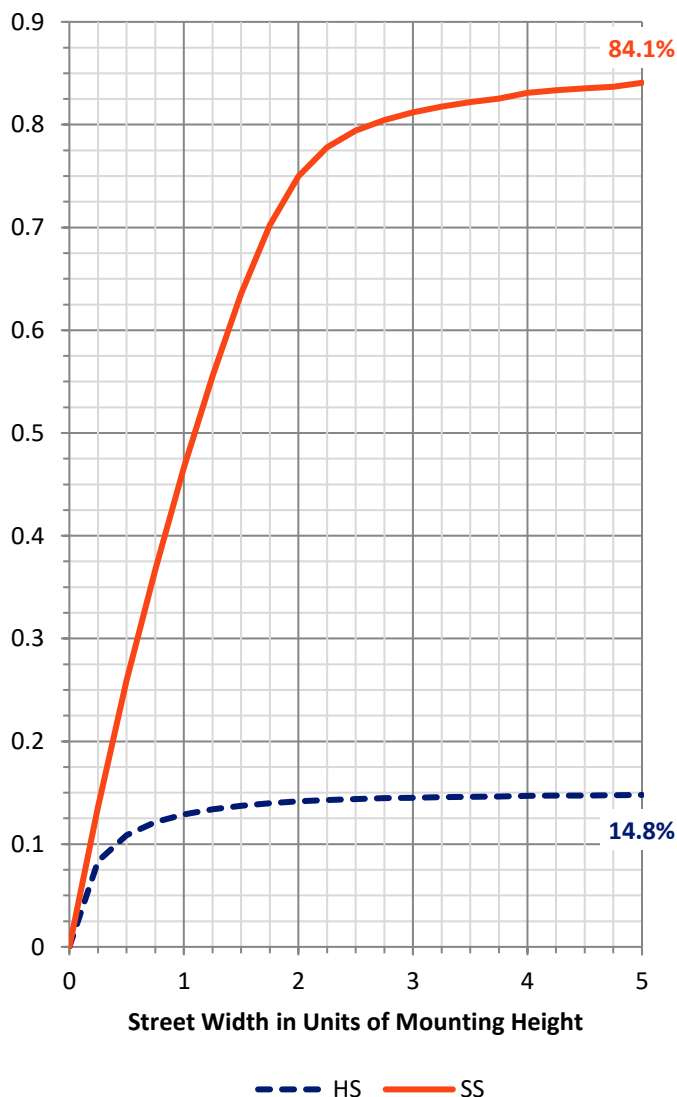
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6812.1	0.0	6812.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	38751.9	0.0	38751.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	45564.0	0.0	45564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1089.1	2.4
10°-20°	2421.7	5.3
20°-30°	3077.8	6.8
30°-40°	3920.5	8.6
40°-50°	5559.4	12.2
50°-60°	8603.4	18.9
60°-70°	11712.5	25.7
70°-80°	7813.6	17.1
80°-90°	1366.1	3.0
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°	45564.0	100.0
0°-180°	45564.0	100.0

Coefficient of Utilization

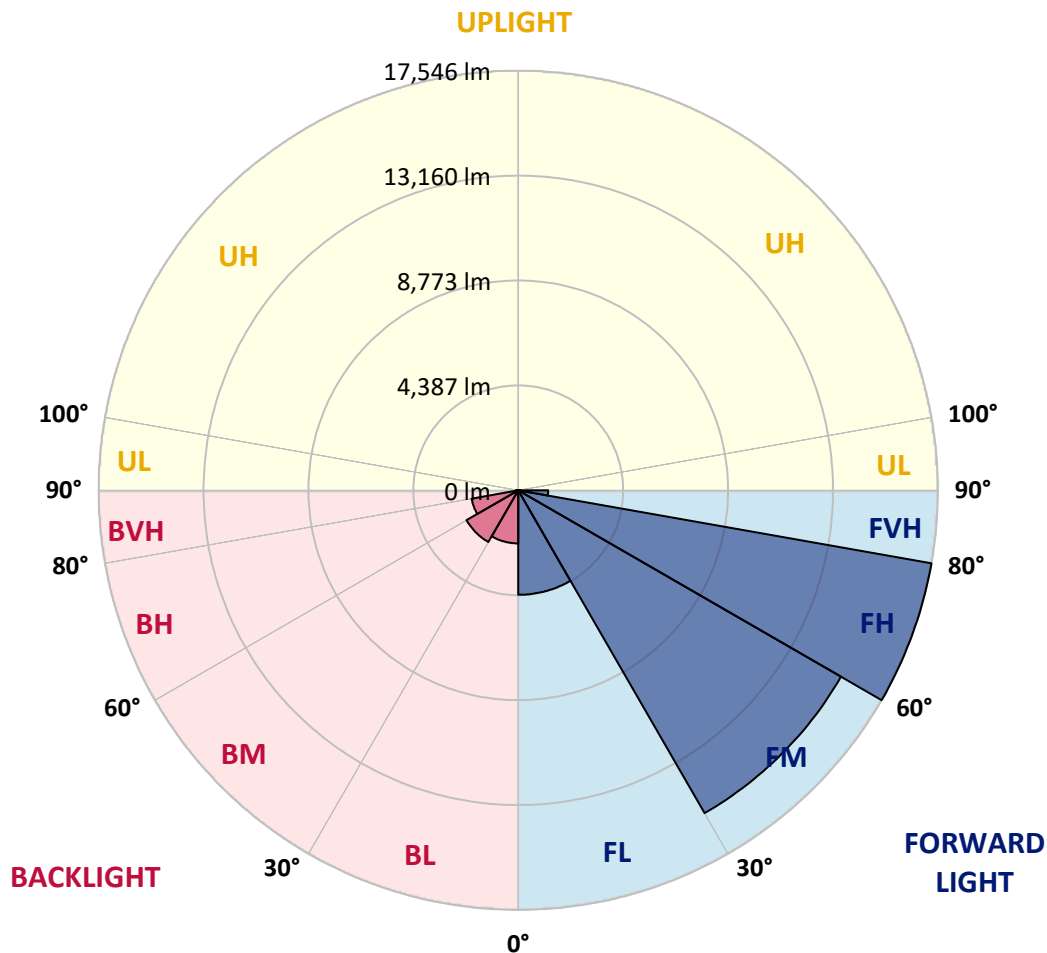


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 CATALOG NUMBER: GAN-SA7C-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4368.1	9.6			
FM (30°-60°)	15585.1	34.2			
FH (60°-80°)	17546.1	38.5			G5
FVH (80°-90°)	1252.6	2.7			G5
BL (0°-30°)	2220.6	4.9	B3/2500		
BM (30°-60°)	2498.2	5.5	B2/2500		
BH (60°-80°)	1979.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	113.5	0.2			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3
2.5°	12959.2	12941.7	12948.1	12935.4	12905.2	12875.0	12830.6	12838.5	12776.6	12684.6	12570.3
5°	12714.7	12708.4	12756.0	12783.0	12805.2	12787.8	12775.1	12790.9	12700.5	12573.5	12375.1
7.5°	12202.1	12132.3	12192.6	12283.0	12368.7	12433.8	12519.5	12530.6	12473.5	12340.2	12079.9
10°	11473.6	11406.9	11495.8	11637.1	11808.5	11964.0	12137.0	12168.8	12179.9	12059.2	11743.4
12.5°	10718.1	10667.3	10756.2	10954.6	11238.7	11478.3	11754.5	11802.1	11900.5	11819.6	11432.3
15°	10042.0	10022.9	10130.8	10326.1	10653.0	11019.7	11418.0	11505.3	11672.0	11645.0	11189.5
17.5°	9457.9	9453.1	9535.7	9740.4	10102.3	10565.7	11083.1	11230.7	11478.3	11510.1	10989.5
20°	9023.0	9013.5	9070.6	9221.4	9594.4	10119.7	10721.3	10924.4	11281.5	11392.6	10783.2
22.5°	8789.7	8788.1	8789.7	8861.1	9165.9	9654.7	10368.9	10616.5	11089.5	11299.0	10554.6
25°	8750.0	8745.3	8710.3	8702.4	8875.4	9265.8	10019.7	10292.7	10907.0	11233.9	10337.2
27.5°	8853.2	8859.5	8813.5	8738.9	8773.8	9010.3	9716.6	10008.6	10760.9	11221.2	10186.4
30°	9067.4	9064.3	9024.6	8946.8	8878.6	8915.1	9500.7	9792.8	10662.5	11276.8	10083.2
32.5°	9303.9	9321.4	9313.5	9270.6	9169.0	9023.0	9435.7	9721.4	10634.0	11410.1	10038.8
35°	9588.0	9607.1	9664.2	9697.6	9578.5	9343.6	9575.3	9822.9	10716.5	11660.9	10110.2
37.5°	9857.9	9907.1	10067.4	10208.6	10107.0	9845.2	9946.7	10122.9	10972.0	12056.1	10302.3
40°	10168.9	10211.8	10473.7	10773.6	10757.8	10486.4	10545.1	10662.5	11422.8	12622.7	10649.8
42.5°	10475.3	10561.0	10940.3	11365.7	11487.9	11248.2	11341.8	11403.7	12057.7	13373.4	11256.1
45°	10883.2	10975.2	11502.2	12014.8	12300.5	12165.6	12314.8	12338.6	12856.0	14395.5	12137.0
47.5°	11500.6	11605.3	12219.5	12757.6	13194.1	13208.3	13454.4	13444.8	13852.7	15565.3	13246.4
50°	12462.4	12613.2	13116.3	13619.4	14149.5	14444.7	14773.3	14727.3	15047.9	16811.2	14524.1
52.5°	13722.6	13792.4	14165.4	14536.8	15195.5	15857.3	16328.7	16287.4	16403.3	18092.0	15974.8
55°	15028.8	15081.2	15235.2	15438.3	16323.9	17403.2	18400.0	18334.9	18041.3	19422.1	17408.0
57.5°	16203.3	16309.7	16416.0	16500.1	17460.4	19018.9	20518.8	20523.6	19818.9	20856.9	18888.8
60°	16385.8	16479.5	17182.6	17846.0	19404.6	21174.3	22786.9	22739.2	21658.4	22413.9	20539.4
62.5°	14484.4	14695.5	15870.0	17634.9	21277.5	25116.8	25680.3	25621.5	23858.2	24332.8	22461.5
65°	10380.0	10619.7	12037.0	14689.2	20369.6	29460.9	30902.0	30111.6	26857.9	26692.9	24712.1
67.5°	5988.4	6045.5	6659.7	8789.7	15509.7	29687.8	38868.0	37761.7	31516.2	29370.4	25813.6
70°	4428.2	4426.6	4572.6	5409.0	8392.9	24229.6	42656.5	43648.5	36420.6	30251.3	24256.6
71°	4004.4	4009.2	4172.6	4923.4	6647.0	20280.7	41851.8	44023.1	37712.5	29816.4	23129.7
72.5°	3425.1	3441.0	3667.9	4415.5	5591.6	13986.1	38385.5	41775.6	38325.2	28743.5	21366.4
75°	2598.2	2634.7	2948.9	3721.9	5110.7	7093.0	28172.1	33358.9	34046.2	25362.8	15876.4
77.5°	1853.8	1895.1	2250.6	3129.9	4858.3	5345.6	18866.6	24332.8	25054.9	16254.1	7161.3
80°	1171.3	1220.5	1488.8	2490.3	4564.7	5075.7	11856.1	16355.7	13662.3	5201.1	1822.1
82.5°	687.2	725.3	923.7	1626.8	3728.2	4888.5	6975.6	9065.9	5317.0	1571.3	828.5
85°	398.4	415.8	576.1	1036.4	2707.7	4613.9	5124.9	5067.8	2307.7	768.2	392.0
87.5°	185.7	206.3	341.2	541.2	1503.0	3344.1	4050.4	3499.7	1434.8	360.3	184.1
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°	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3	12624.3
2.5°	12514.8	12487.8	12375.1	12275.1	12170.3	12033.9	11883.1	11864.0	11772.0	11789.4	11757.7
5°	12267.2	12198.9	11927.5	11681.5	11391.1	11130.8	10848.2	10718.1	10530.8	10518.1	10470.5
7.5°	11913.2	11786.3	11365.7	10899.0	10432.4	9988.0	9548.4	9259.5	8964.3	8838.9	8827.8
10°	11514.8	11299.0	10680.0	9989.6	9316.6	8667.5	8039.0	7573.9	7154.9	6956.5	6948.6
12.5°	11137.1	10818.1	9969.0	9029.4	8108.8	7267.6	6405.8	5794.7	5269.4	5093.2	5018.6
15°	10816.5	10367.3	9277.0	8075.5	6958.1	5790.0	4809.1	4166.3	3680.6	3512.4	3480.6
17.5°	10505.4	9927.7	8567.5	7112.1	5761.4	4477.4	3494.9	3017.2	2758.5	2690.2	2688.6
20°	10195.9	9475.3	7826.3	6126.4	4604.4	3348.9	2687.1	2472.8	2385.5	2377.6	2364.9
22.5°	9845.2	8996.0	7047.0	5137.6	3593.3	2633.1	2283.9	2198.2	2187.1	2215.7	2215.7
25°	9516.6	8519.9	6256.6	4169.5	2795.0	2196.6	2039.5	2022.0	2052.2	2103.0	2107.7
27.5°	9210.3	8061.2	5485.2	3309.2	2239.5	1934.7	1869.7	1890.3	1944.3	2003.0	2004.6
30°	8957.9	7627.9	4736.1	2607.7	1891.9	1739.5	1728.4	1769.7	1828.4	1874.4	1885.5
32.5°	8762.7	7258.1	4012.3	2096.6	1664.9	1593.5	1603.0	1637.9	1674.5	1699.8	1717.3
35°	8672.2	6940.7	3344.1	1768.1	1520.5	1480.8	1493.5	1512.6	1528.4	1547.5	1561.8
37.5°	8688.1	6694.6	2747.4	1563.4	1423.7	1403.0	1403.0	1403.0	1403.0	1412.6	1414.2
40°	8835.7	6553.4	2261.7	1433.2	1358.6	1336.4	1318.9	1303.1	1290.4	1296.7	1293.5
42.5°	9213.5	6540.7	1906.2	1350.7	1306.2	1269.7	1234.8	1212.6	1196.7	1203.1	1206.2
45°	9854.7	6699.4	1666.5	1291.9	1257.0	1201.5	1157.0	1133.2	1122.1	1142.8	1145.9
47.5°	10684.8	7045.4	1520.5	1249.1	1211.0	1138.0	1090.4	1068.2	1071.3	1101.5	1109.4
50°	11754.5	7607.3	1450.7	1222.1	1179.3	1084.0	1034.8	1015.8	1025.3	1068.2	1077.7
52.5°	12929.0	8416.7	1458.6	1214.2	1158.6	1044.4	992.0	969.8	985.6	1025.3	1033.2
55°	14284.4	9389.6	1590.3	1225.3	1128.5	1019.0	957.1	919.0	931.7	968.2	974.5
57.5°	15790.7	10503.8	1855.4	1222.1	1090.4	995.1	920.6	863.4	872.9	895.2	901.5
60°	17358.8	11849.7	2266.5	1231.6	1072.9	966.6	871.4	799.9	796.8	815.8	819.0
62.5°	19241.1	13406.7	2736.3	1238.0	1084.0	930.1	806.3	736.4	726.9	731.7	734.9
65°	21180.7	14533.6	2560.1	1212.6	1118.9	899.9	749.1	674.5	657.1	653.9	655.5
67.5°	21241.0	13325.8	1795.1	1161.8	1133.2	884.0	706.3	622.2	593.6	582.5	580.9
70°	19049.1	10826.0	1398.3	1107.8	1076.1	858.7	666.6	579.3	536.5	519.0	517.4
71°	17979.4	9965.8	1325.3	1080.9	1033.2	833.3	649.1	560.3	515.8	496.8	493.6
72.5°	16301.7	8934.1	1236.4	1038.0	950.7	768.2	615.8	533.3	487.3	465.0	460.3
75°	11699.0	5842.3	1061.8	925.3	787.2	612.6	539.6	479.3	439.6	412.7	409.5
77.5°	4507.5	2325.2	803.1	769.8	603.1	479.3	444.4	414.2	385.7	358.7	357.1
80°	1393.5	1039.6	585.7	579.3	436.5	357.1	346.0	338.1	327.0	298.4	292.0
82.5°	744.4	596.8	403.1	374.6	285.7	238.1	250.8	253.9	255.5	225.4	222.2
85°	355.5	315.8	227.0	212.7	166.7	133.3	154.0	166.7	168.2	138.1	128.6
87.5°	169.8	165.1	106.3	80.9	61.9	44.4	54.0	66.7	73.0	52.4	46.0
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)