

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: P528816

Luminaire Tested: **GALN-SA3D-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15646 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

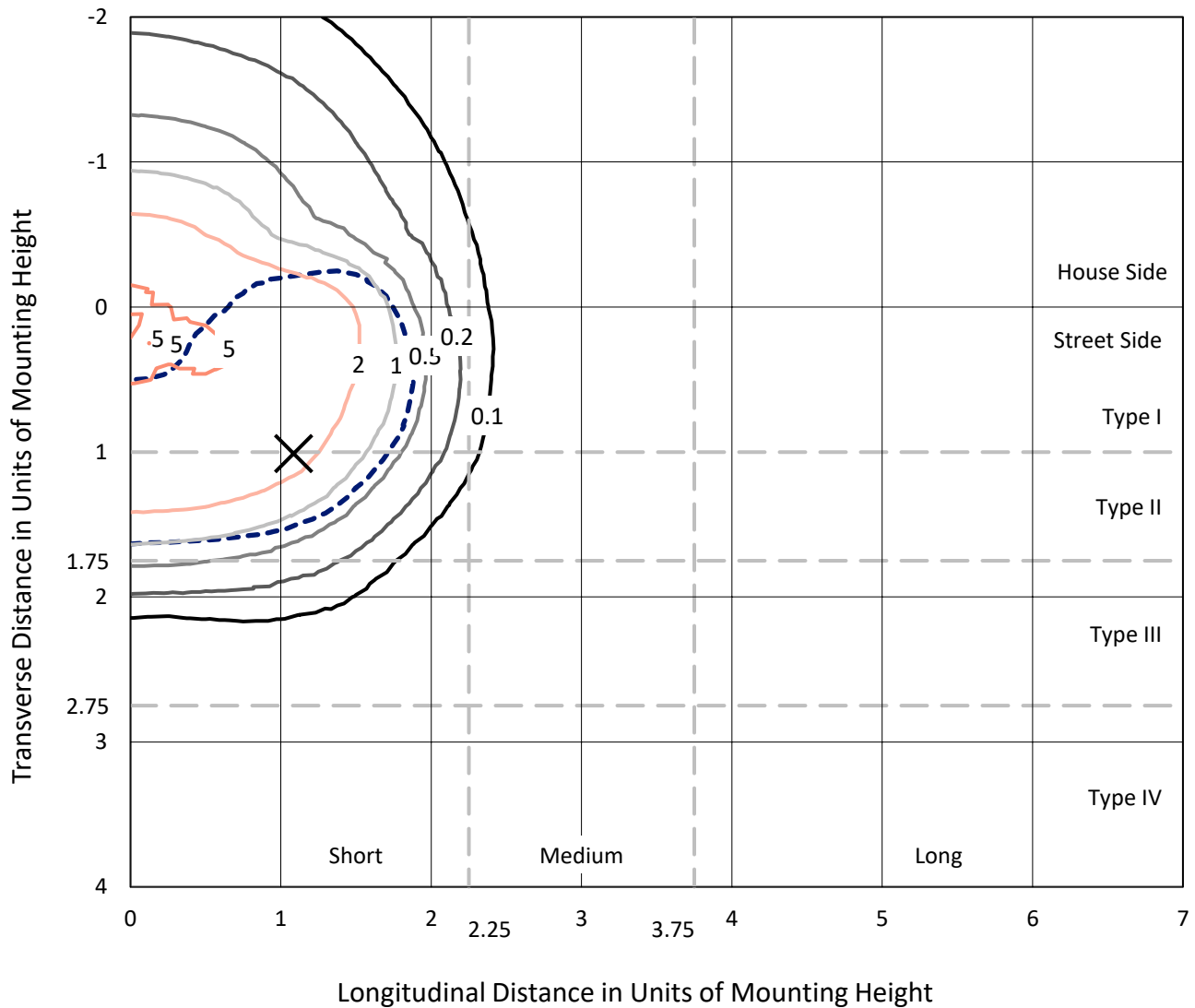
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

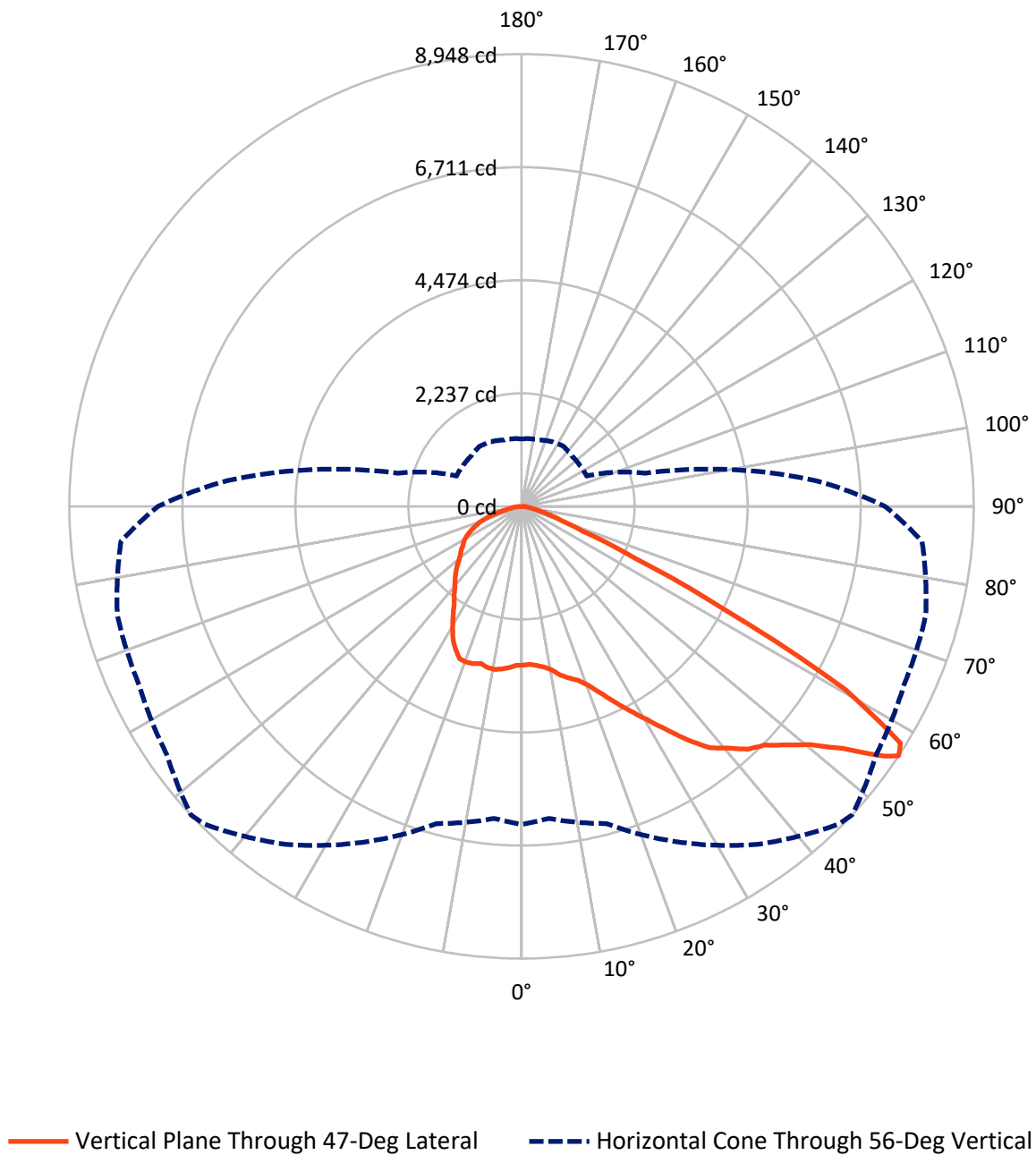


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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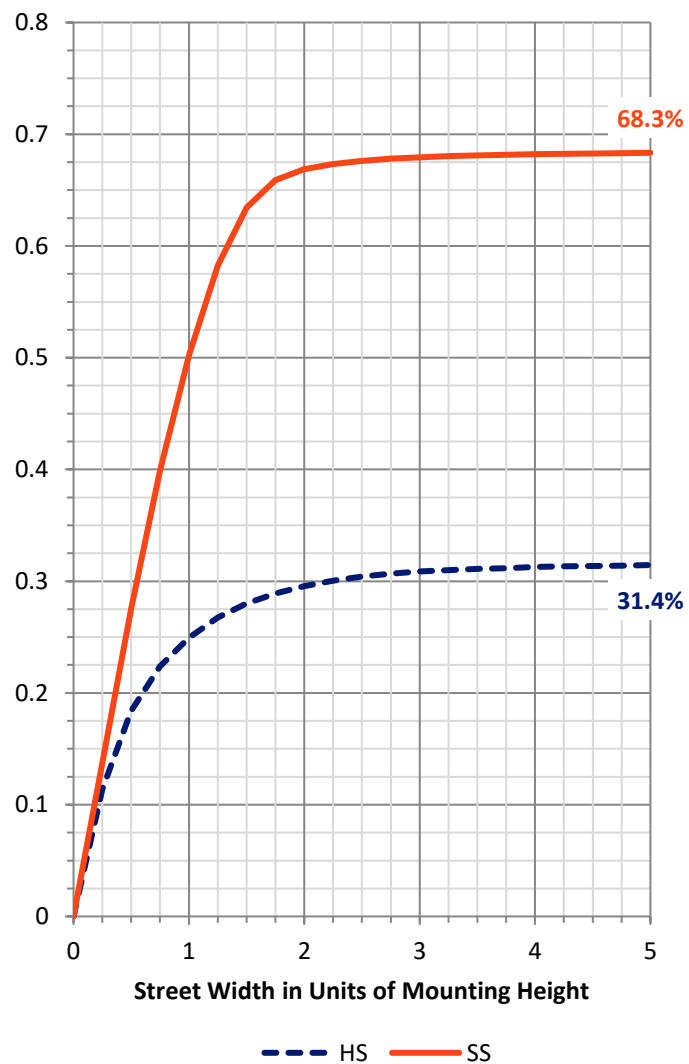
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4958.0	0.0	4958.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	10688.0	0.0	10688.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	15646.0	0.0	15646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.2	2.0
10°-20°	966.0	6.2
20°-30°	1707.6	10.9
30°-40°	2564.8	16.4
40°-50°	3519.9	22.5
50°-60°	4193.5	26.8
60°-70°	1794.6	11.5
70°-80°	507.9	3.2
80°-90°	85.5	0.5
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°	15646.0	100.0
0°-180°	15646.0	100.0

Coefficient of Utilization



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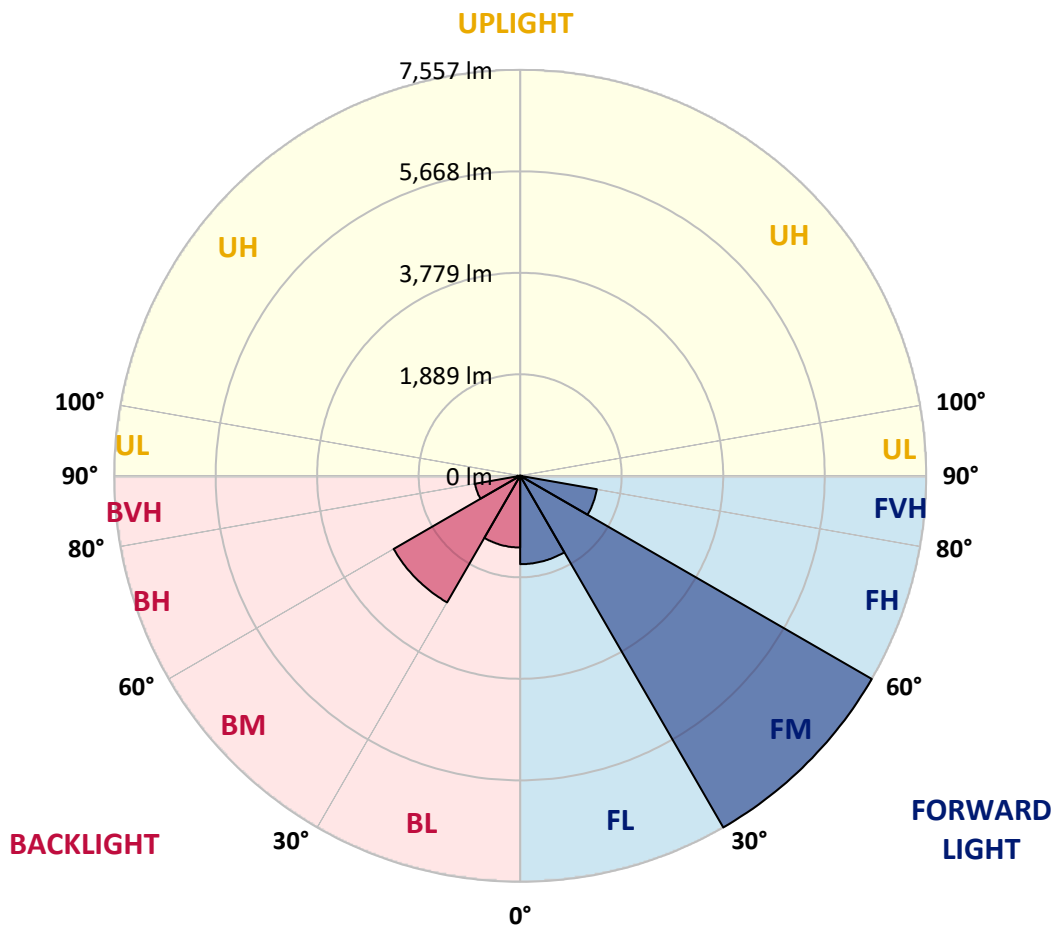
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1644.9	10.5			
FM	(30°-60°)	7557.4	48.3			
FH	(60°-80°)	1449.4	9.3			G1/1800
FVH	(80°-90°)	36.3	0.2			G1/100
BL	(0°-30°)	1334.9	8.5	B3/2500		
BM	(30°-60°)	2720.9	17.4	B3/5000		
BH	(60°-80°)	853.0	5.5	B2/1000		G2/1000
BVH	(80°-90°)	49.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8
2.5°	3130.8	3124.8	3120.9	3152.8	3140.8	3142.8	3130.8	3142.8	3150.8	3132.8	3158.8
5°	3124.8	3142.8	3126.8	3136.8	3162.8	3154.8	3162.8	3186.7	3180.7	3174.7	3166.8
7.5°	3180.7	3182.7	3194.7	3198.7	3206.7	3198.7	3210.7	3232.6	3226.6	3192.7	3196.7
10°	3260.5	3264.5	3266.5	3288.5	3302.4	3304.4	3290.5	3270.5	3268.5	3314.4	3282.5
12.5°	3352.3	3342.3	3366.3	3374.3	3390.2	3408.2	3426.2	3384.3	3410.2	3412.2	3374.3
15°	3486.0	3496.0	3468.1	3468.1	3474.0	3476.0	3525.9	3506.0	3502.0	3480.0	3496.0
17.5°	3685.6	3617.7	3615.7	3587.8	3583.8	3599.8	3617.7	3633.7	3687.6	3643.7	3557.9
20°	3831.2	3847.2	3789.3	3755.4	3761.4	3797.3	3779.3	3851.2	3889.1	3817.3	3733.5
22.5°	4088.6	4034.8	4048.7	3972.9	3978.9	4016.8	4014.8	4088.6	4110.6	3996.9	3875.1
25°	4262.2	4248.3	4260.2	4200.4	4208.4	4238.3	4286.2	4407.9	4372.0	4246.3	3964.9
27.5°	4515.7	4487.7	4477.8	4455.8	4447.8	4527.6	4583.5	4713.2	4687.3	4503.7	4124.6
30°	4775.1	4757.1	4767.1	4677.3	4709.2	4878.8	4894.8	5072.4	5060.4	4737.2	4302.2
32.5°	4954.7	4964.6	4982.6	4932.7	5074.4	5210.1	5264.0	5465.5	5475.5	5138.2	4645.4
35°	5244.0	5210.1	5220.1	5277.9	5343.8	5591.2	5679.0	5812.7	5896.5	5559.3	4974.6
37.5°	5425.6	5461.5	5419.6	5511.4	5683.0	5980.3	6060.1	6197.8	6285.6	5974.3	5423.6
40°	5708.9	5651.1	5681.0	5746.8	5922.4	6309.6	6287.6	6429.3	6457.2	6327.5	5842.6
42.5°	6014.2	5986.3	5944.4	6094.1	6241.7	6523.1	6567.0	6501.1	6642.8	6672.7	6441.3
45°	6379.4	6413.3	6419.3	6423.3	6553.0	6798.4	6738.6	6680.7	6844.3	7061.8	6812.4
47.5°	6718.6	6610.9	6688.7	6796.4	6980.0	6982.0	7051.9	6914.2	7087.8	7281.3	7147.6
50°	6832.4	6780.5	6884.2	7087.8	7371.1	7401.1	7409.0	7213.5	7303.3	7456.9	7263.4
52.5°	6788.5	6770.5	7035.9	7351.2	7766.2	7917.9	7957.8	7716.3	7766.2	7696.4	7518.8
55°	6578.9	6632.8	6900.2	7542.7	8179.3	8648.2	8724.0	8418.7	8101.5	8155.3	7959.8
56°	6291.6	6197.8	6497.1	7325.2	8161.3	8885.7	8947.5	8566.4	8350.9	8281.0	7955.8
57.5°	5337.8	5216.1	5609.2	6590.9	7708.4	8795.9	8841.8	8628.2	8309.0	8167.3	7375.1
60°	3124.8	3184.7	3683.6	4545.6	5946.4	7211.5	7365.1	7520.8	7307.3	6672.7	5489.4
62.5°	1508.5	1470.6	1827.8	2606.0	3623.7	4603.5	4557.6	4994.6	5234.0	4741.1	3466.1
65°	790.2	786.2	997.7	1422.7	1991.4	2418.5	2460.4	2695.8	3025.1	2442.4	1760.0
67.5°	580.7	596.6	702.4	999.7	1281.1	1307.0	1301.0	1418.8	1450.7	1227.2	1081.5
70°	455.0	462.9	540.8	760.3	953.8	854.0	836.1	850.1	943.8	983.7	935.9
72.5°	329.2	337.2	403.1	512.8	596.6	582.7	594.6	672.5	788.2	830.1	780.2
75°	219.5	225.5	261.4	313.3	353.2	381.1	403.1	492.9	600.6	624.6	600.6
77.5°	151.7	157.6	181.6	221.5	225.5	243.4	251.4	293.3	359.2	389.1	373.1
80°	85.8	85.8	97.8	113.7	139.7	163.6	167.6	201.5	231.5	251.4	255.4
82.5°	39.9	41.9	51.9	69.8	91.8	113.7	117.7	139.7	161.6	181.6	187.6
85°	20.0	21.9	29.9	41.9	55.9	67.8	65.8	67.8	71.8	67.8	69.8
87.5°	6.0	6.0	8.0	10.0	8.0	10.0	10.0	12.0	14.0	16.0	18.0
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°	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8	3142.8
2.5°	3160.8	3166.8	3126.8	3164.8	3150.8	3148.8	3176.7	3172.7	3182.7	3178.7	3154.8
5°	3162.8	3148.8	3190.7	3152.8	3170.7	3208.7	3182.7	3242.6	3212.6	3232.6	3188.7
7.5°	3224.6	3228.6	3220.6	3236.6	3228.6	3246.6	3232.6	3246.6	3222.6	3224.6	3264.5
10°	3278.5	3266.5	3280.5	3260.5	3274.5	3268.5	3236.6	3226.6	3234.6	3224.6	3250.6
12.5°	3378.3	3356.3	3346.3	3322.4	3306.4	3246.6	3196.7	3168.7	3206.7	3212.6	3200.7
15°	3480.0	3482.0	3436.1	3382.3	3282.5	3192.7	3204.7	3214.6	3214.6	3230.6	3200.7
17.5°	3543.9	3543.9	3502.0	3394.2	3292.5	3240.6	3228.6	3196.7	3168.7	3164.8	3162.8
20°	3655.6	3621.7	3525.9	3392.2	3288.5	3264.5	3174.7	3098.9	3041.0	3021.1	3019.1
22.5°	3783.3	3697.5	3563.8	3396.2	3282.5	3248.6	3080.9	2967.2	2863.4	2819.5	2825.5
25°	3901.1	3763.4	3585.8	3378.3	3260.5	3096.9	2909.3	2751.7	2643.9	2608.0	2590.1
27.5°	3982.9	3833.2	3585.8	3394.2	3178.7	2927.3	2735.7	2534.2	2440.4	2416.5	2420.5
30°	4092.6	3921.0	3647.7	3360.3	3015.1	2707.8	2478.3	2346.6	2290.8	2270.8	2284.8
32.5°	4350.0	4150.5	3733.5	3278.5	2821.5	2488.3	2302.7	2228.9	2147.1	2107.2	2093.2
35°	4629.4	4368.0	3817.3	3140.8	2604.0	2288.8	2173.0	2105.2	2007.4	1963.5	1971.5
37.5°	5024.5	4647.4	3823.2	2913.3	2368.6	2177.0	2071.3	1965.5	1885.7	1817.8	1797.9
40°	5557.3	5028.5	3809.3	2673.9	2179.0	2045.3	1967.5	1835.8	1746.0	1698.1	1708.1
42.5°	6026.2	5475.5	3751.4	2402.5	2007.4	1955.5	1867.7	1738.0	1650.2	1600.3	1596.3
45°	6421.3	5804.7	3641.7	2171.0	1863.7	1855.8	1754.0	1654.2	1584.4	1538.5	1558.4
47.5°	6786.5	6070.1	3476.0	1939.6	1732.0	1748.0	1650.2	1588.4	1544.5	1502.6	1500.6
50°	6918.2	6066.1	3330.4	1748.0	1626.3	1618.3	1614.3	1548.5	1502.6	1466.6	1482.6
52.5°	7137.7	6134.0	3172.7	1616.3	1530.5	1532.5	1546.5	1498.6	1446.7	1424.7	1444.7
55°	7452.9	6143.9	2825.5	1462.7	1450.7	1464.6	1464.6	1432.7	1388.8	1370.9	1360.9
56°	7195.5	5846.6	2534.2	1422.7	1410.8	1410.8	1448.7	1412.8	1358.9	1344.9	1332.9
57.5°	6636.8	5122.3	2121.1	1374.9	1356.9	1384.8	1404.8	1366.9	1317.0	1297.0	1309.0
60°	4577.5	3466.1	1594.4	1271.1	1271.1	1317.0	1332.9	1277.1	1255.1	1253.1	1237.2
62.5°	2671.9	2019.4	1247.1	1177.3	1181.3	1219.2	1231.2	1199.3	1171.3	1205.2	1221.2
65°	1416.8	1205.2	1069.6	1077.5	1079.5	1109.5	1161.3	1159.3	1157.4	1167.3	1169.3
67.5°	1025.7	1001.7	971.8	963.8	967.8	989.7	1041.6	1081.5	1079.5	1055.6	1037.6
70°	913.9	880.0	862.0	864.0	848.1	874.0	915.9	941.8	895.9	868.0	856.0
72.5°	760.3	750.3	738.3	740.3	708.4	702.4	654.5	654.5	642.5	634.5	648.5
75°	580.7	576.7	582.7	572.7	538.8	502.8	474.9	449.0	409.1	393.1	385.1
77.5°	367.2	379.1	393.1	371.2	357.2	331.2	303.3	277.4	245.4	227.5	227.5
80°	249.4	259.4	269.4	265.4	249.4	225.5	203.5	175.6	153.6	139.7	137.7
82.5°	189.6	197.5	211.5	195.6	179.6	159.6	141.7	121.7	101.8	85.8	85.8
85°	67.8	77.8	85.8	93.8	99.8	101.8	87.8	71.8	57.9	45.9	43.9
87.5°	18.0	20.0	21.9	20.0	20.0	20.0	21.9	20.0	18.0	14.0	14.0
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)