

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: P957016

Luminaire Tested: **GALN-SB9C-730-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-730-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67801 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 449.8
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

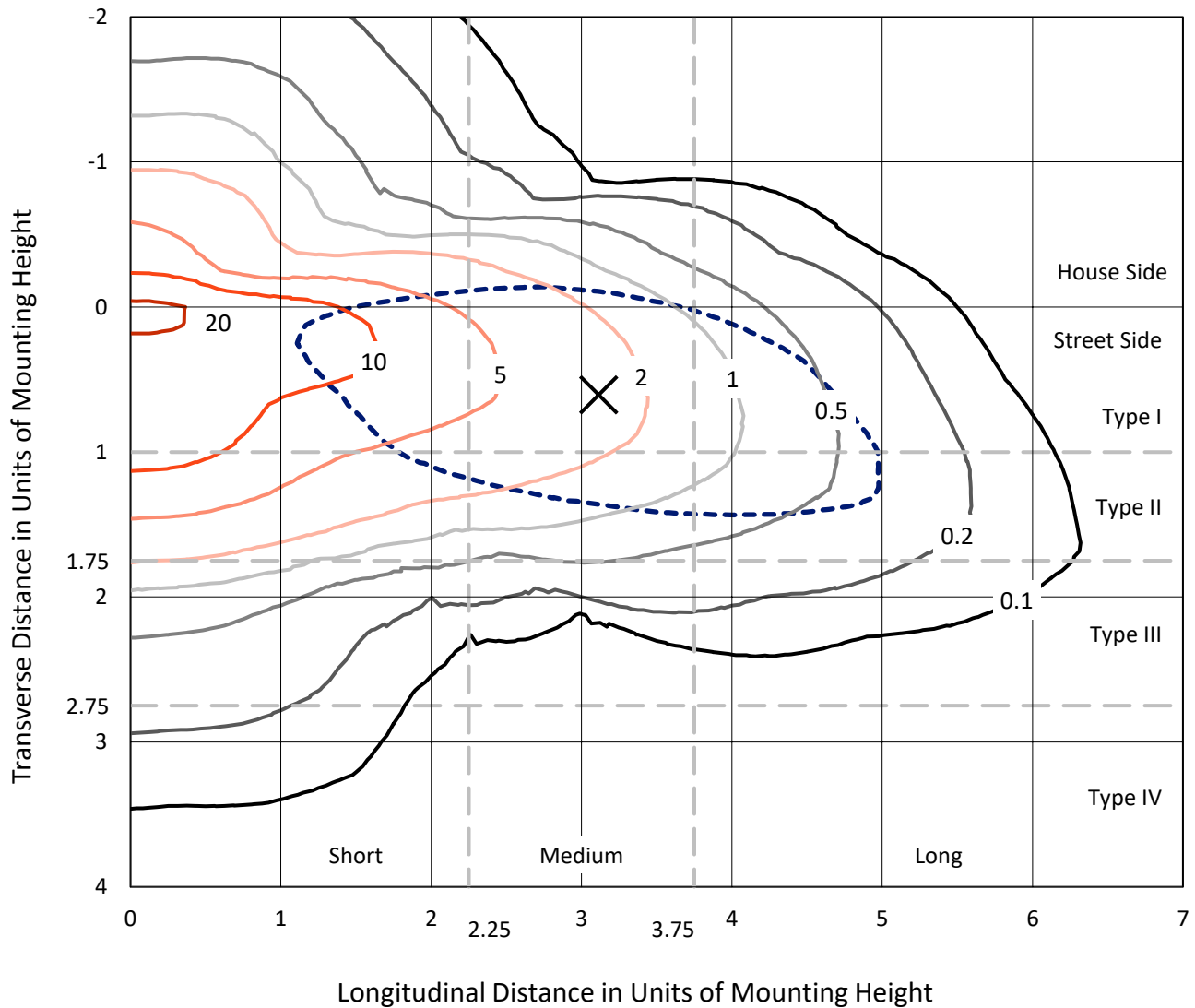


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

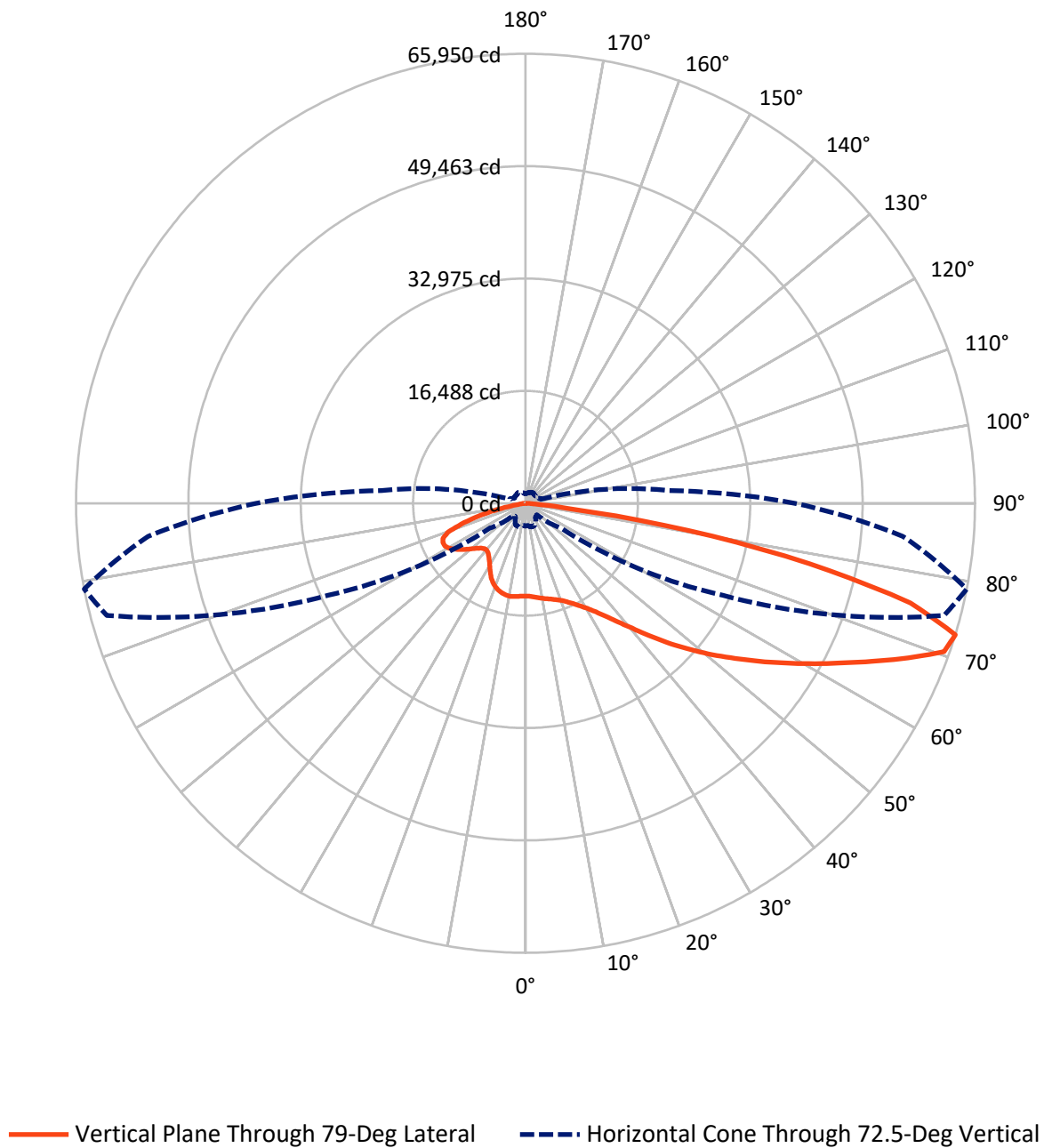


Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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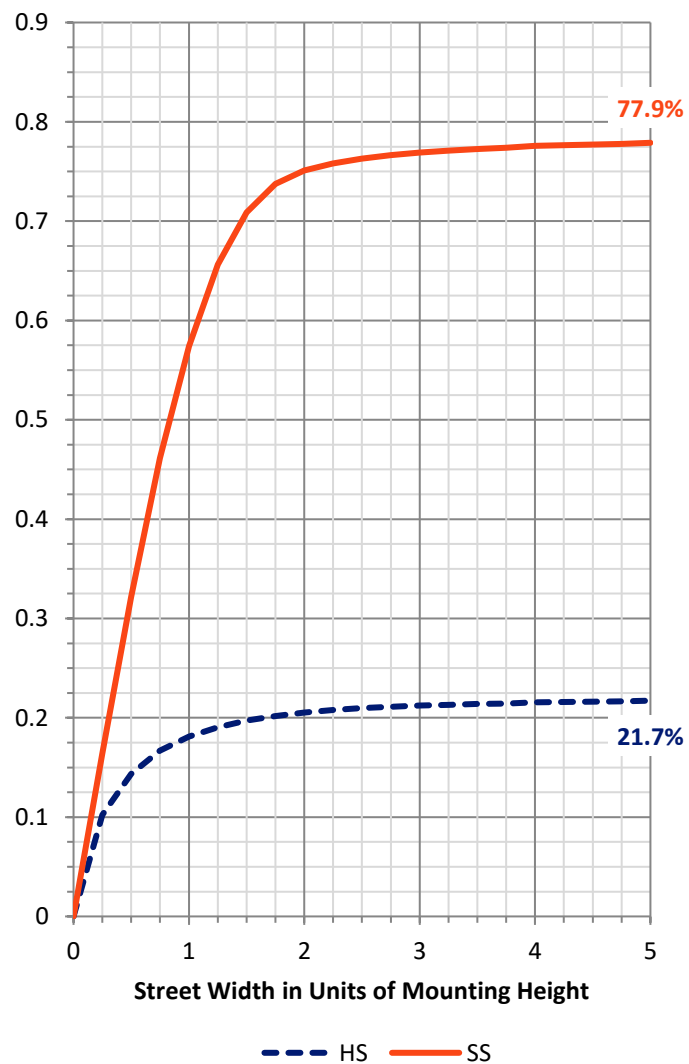
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14920.0	0.0	14920.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	52881.1	0.0	52881.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	67801.0	0.0	67801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1235.4	1.8
10°-20°	3230.0	4.8
20°-30°	5212.0	7.7
30°-40°	7822.4	11.5
40°-50°	11096.5	16.4
50°-60°	14013.4	20.7
60°-70°	14232.6	21.0
70°-80°	9700.1	14.3
80°-90°	1258.5	1.9
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°	67801.0	100.0
0°-180°	67801.0	100.0

Coefficient of Utilization



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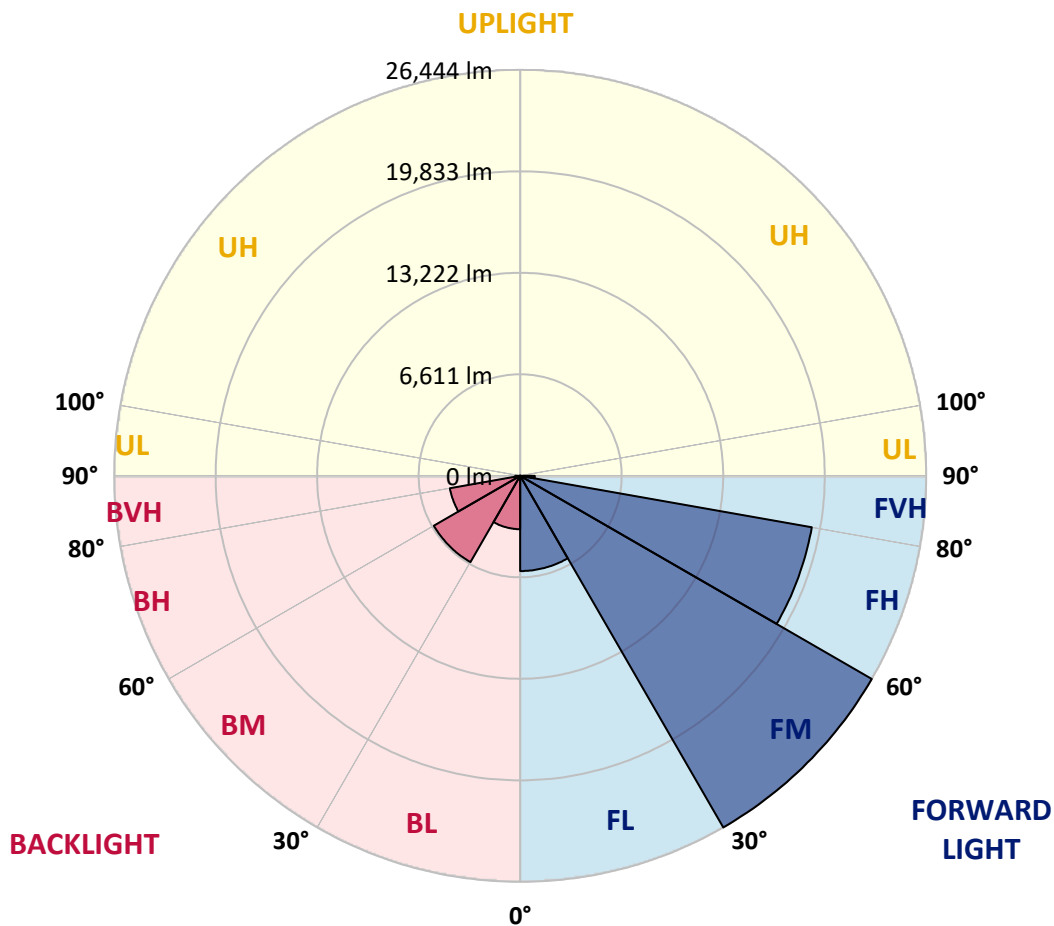
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6202.1	9.1			
FM	(30°-60°)	26443.8	39.0			
FH	(60°-80°)	19287.1	28.4			G5
FVH	(80°-90°)	948.0	1.4			G5
BL	(0°-30°)	3475.3	5.1	B4/5000		
BM	(30°-60°)	6488.6	9.6	B4/8500		
BH	(60°-80°)	4645.6	6.9	B4/5000		G4/5000
BVH	(80°-90°)	310.5	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4
2.5°	13617.6	13553.0	13592.5	13578.1	13596.1	13617.6	13624.8	13635.5	13671.4	13667.8	13664.2
5°	13588.9	13524.3	13578.1	13560.2	13606.8	13657.0	13700.1	13739.5	13796.9	13822.0	13786.1
7.5°	13527.9	13484.9	13538.7	13592.5	13678.5	13753.9	13814.8	13904.5	13987.0	14001.3	14026.4
10°	13172.9	13140.6	13266.1	13406.0	13642.7	13847.1	13979.8	14083.8	14173.5	14187.8	14223.7
12.5°	12803.5	12764.0	12903.9	13094.0	13477.7	13847.1	14126.8	14263.1	14342.0	14388.7	14442.5
15°	12742.5	12710.2	12789.1	12954.1	13273.3	13750.3	14227.3	14478.3	14546.5	14600.3	14621.8
17.5°	13036.6	12975.6	13007.9	13065.3	13251.8	13660.6	14306.2	14722.2	14826.2	14883.6	14883.6
20°	13718.0	13631.9	13581.7	13466.9	13434.7	13675.0	14299.0	15016.3	15152.6	15224.3	15242.2
22.5°	14625.4	14568.0	14460.4	14169.9	13854.3	13850.7	14435.3	15392.8	15647.5	15715.6	15672.6
25°	15722.8	15636.7	15500.4	15105.9	14499.8	14198.6	14664.8	15873.4	16300.2	16318.1	16192.6
27.5°	16985.2	16856.1	16669.6	16149.6	15331.9	14743.7	15016.3	16425.7	17049.8	17042.6	16784.4
30°	18315.8	18186.7	17989.4	17358.2	16328.9	15478.9	15504.0	17021.1	17939.2	17899.7	17458.6
32.5°	19287.7	19190.9	19151.4	18663.7	17476.6	16346.8	16063.5	17681.0	19036.6	19000.8	18383.9
35°	20033.7	19908.1	19954.8	19707.3	18728.2	17318.7	16748.5	18466.4	20370.8	20367.2	19599.7
37.5°	20772.5	20661.3	20700.7	20535.8	19886.6	18552.5	17584.1	19427.6	22024.1	22103.0	21070.1
40°	21446.7	21328.3	21486.2	21331.9	20786.8	19865.1	18534.5	20514.2	23939.3	24089.9	22849.0
42.5°	21852.0	21758.7	22020.5	22024.1	21568.6	20973.3	19578.2	21712.1	26155.6	26492.8	25036.7
45°	21991.8	21959.6	22354.1	22436.5	22260.8	21615.3	20517.8	23017.5	28544.2	29146.7	27529.2
47.5°	21841.2	21780.2	22325.4	22630.2	22770.1	21916.5	21296.1	24430.6	30983.0	31865.2	30247.7
50°	21080.9	20962.5	21773.1	22415.0	22913.5	22113.8	22081.5	26062.4	33755.2	34720.0	32980.6
52.5°	19714.5	19624.8	20546.5	21661.9	22597.9	22210.6	22963.7	27844.8	36387.7	37635.7	35781.6
55°	17967.9	17849.5	18864.5	20320.6	21812.5	22178.3	23846.0	29838.9	39493.5	40759.5	38675.8
57.5°	15199.2	14962.5	16246.4	17967.9	20532.2	22138.9	24764.1	31822.2	42649.5	44166.6	41763.7
60°	11160.9	10809.4	12383.9	14424.5	18028.9	21755.1	25901.0	34045.7	46436.8	47803.2	45134.9
62.5°	6498.6	6294.1	7323.4	9227.8	13588.9	19495.7	26539.4	36631.5	50159.5	51594.0	48448.7
65°	5046.1	4988.7	5078.3	5225.4	7563.7	14596.7	24570.5	39152.8	54893.5	55897.7	51902.4
67.5°	4615.7	4572.7	4612.1	4336.0	3837.5	8130.4	19438.3	39791.2	59964.7	60574.4	54925.8
70°	4102.8	4052.6	4181.7	3945.0	3019.8	3697.6	12559.6	37474.3	63999.4	65143.5	57224.7
72.5°	3342.5	3285.1	3586.4	3478.8	2542.8	2374.2	6308.5	31969.2	63576.2	65950.4	55578.5
75°	2567.9	2535.6	2894.2	2983.9	2072.9	1868.5	3026.9	23763.5	55947.9	58340.0	47900.0
77.5°	1994.0	1968.9	2151.8	2478.2	1671.3	1448.9	1861.3	15073.7	42161.8	42581.4	33009.3
80°	1495.5	1423.8	1592.4	1918.7	1301.9	1058.0	1262.4	8790.3	26650.6	24158.0	14367.1
82.5°	936.1	900.2	1040.1	1280.3	918.1	728.0	821.3	4856.0	10680.3	6290.6	2772.3
85°	534.4	520.0	566.7	731.6	498.5	419.6	469.8	2144.7	1951.0	1341.3	835.6
87.5°	215.2	208.0	258.2	326.4	182.9	154.2	165.0	516.4	430.4	398.1	276.2
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°	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4	13610.4
2.5°	13649.9	13649.9	13599.6	13520.7	13431.1	13373.7	13280.5	13255.4	13158.5	13129.8	13176.5
5°	13814.8	13786.1	13631.9	13409.6	13104.7	12825.0	12516.6	12322.9	12050.3	11953.5	12025.2
7.5°	14022.8	13943.9	13678.5	13190.8	12552.4	11924.8	11272.1	10777.1	10303.7	10135.2	10156.7
10°	14212.9	14101.7	13649.9	12796.3	11691.7	10605.0	9564.9	8836.9	8284.6	8058.7	8108.9
12.5°	14403.0	14198.6	13459.8	12140.0	10468.7	8994.7	7886.5	7319.9	6979.1	6706.6	6796.2
15°	14582.3	14295.4	13165.7	11261.3	9127.4	7631.9	6814.2	6362.3	6089.7	5910.4	5942.7
17.5°	14790.3	14377.9	12724.6	10145.9	7850.6	6688.6	6021.6	5749.0	5695.2	5673.7	5688.0
20°	15080.8	14453.2	12143.6	8897.9	6911.0	5935.5	5591.2	5566.1	5562.5	5551.8	5587.6
22.5°	15392.8	14542.9	11376.1	7764.6	6111.2	5465.7	5404.7	5354.5	5322.2	5318.6	5358.1
25°	15762.2	14571.6	10414.9	6835.7	5429.8	5243.3	5171.6	5096.3	5074.8	5074.8	5096.3
27.5°	16120.9	14474.7	9296.0	6028.7	5046.1	5038.9	4945.7	4920.5	4917.0	4927.7	4956.4
30°	16479.5	14291.8	8184.2	5282.8	4823.7	4823.7	4791.4	4809.4	4823.7	4859.6	4884.7
32.5°	16963.7	14098.2	7255.3	4730.5	4630.0	4594.2	4626.5	4662.3	4676.7	4723.3	4762.7
35°	17673.8	13961.9	6516.5	4429.2	4429.2	4382.6	4400.5	4393.3	4361.1	4339.5	4389.8
37.5°	18613.4	13954.7	5906.8	4289.3	4260.6	4253.5	4257.1	4210.4	4084.9	3934.3	3937.9
40°	19743.2	14148.4	5437.0	4192.5	4171.0	4214.0	4192.5	4067.0	3722.7	3460.9	3453.7
42.5°	21260.2	14700.7	5135.7	4074.2	4138.7	4192.5	4106.4	3672.5	3439.4	3263.6	3256.5
45°	23046.2	15597.3	4981.5	3948.6	4077.7	4142.3	3726.3	3536.2	3349.7	3138.1	3123.8
47.5°	25069.0	16727.0	4945.7	3830.3	3941.5	3980.9	3564.9	3478.8	3267.2	3037.7	3019.8
50°	27271.0	18064.7	5042.5	3690.4	3744.2	3607.9	3511.1	3432.2	3213.4	2987.5	2962.4
52.5°	29548.4	19538.7	5236.2	3500.3	3547.0	3396.3	3489.6	3421.4	3181.1	2876.3	2854.8
55°	31786.3	21023.5	5422.6	3278.0	3346.1	3206.2	3428.6	3378.4	3034.1	2689.8	2671.9
57.5°	34060.1	22501.1	5605.6	3080.7	3152.4	3023.3	3331.8	3263.6	2869.1	2517.7	2510.5
60°	36423.5	23935.7	5691.6	2890.6	2940.9	2854.8	3184.7	3066.4	2682.6	2341.9	2331.2
62.5°	38636.3	25129.9	5551.8	2700.6	2732.8	2697.0	2991.1	2833.3	2496.1	2144.7	2141.1
65°	40856.3	25840.0	5121.4	2514.1	2521.2	2503.3	2718.5	2582.2	2277.4	1972.5	1951.0
67.5°	42868.3	26238.1	4436.4	2313.2	2295.3	2288.1	2463.9	2309.6	2065.8	1800.4	1778.9
70°	43295.1	25226.8	3389.2	2076.5	2076.5	2058.6	2184.1	2026.3	1832.7	1617.5	1610.3
72.5°	39543.7	21220.8	2406.5	1807.5	1836.2	1800.4	1904.4	1771.7	1596.0	1452.5	1409.5
75°	31886.7	15561.4	1750.2	1531.4	1581.6	1520.6	1617.5	1524.2	1373.6	1370.0	1233.7
77.5°	21909.3	9622.3	1269.6	1262.4	1298.3	1219.4	1330.6	1280.3	1144.1	1083.1	1015.0
80°	9349.8	3837.5	925.3	975.5	975.5	903.8	1032.9	1047.2	928.9	900.2	900.2
82.5°	1861.3	1090.3	649.1	670.7	631.2	609.7	731.6	810.5	1119.0	1244.5	1248.1
85°	559.5	401.7	390.9	365.8	322.8	326.4	430.4	814.1	1004.2	573.8	494.9
87.5°	154.2	100.4	104.0	82.5	68.1	89.7	147.0	616.9	337.1	143.5	121.9
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)