

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: P301950

Luminaire Tested: **GLNA-AF-06-LED-E1-SL4-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-SL4-7027-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15026.4 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

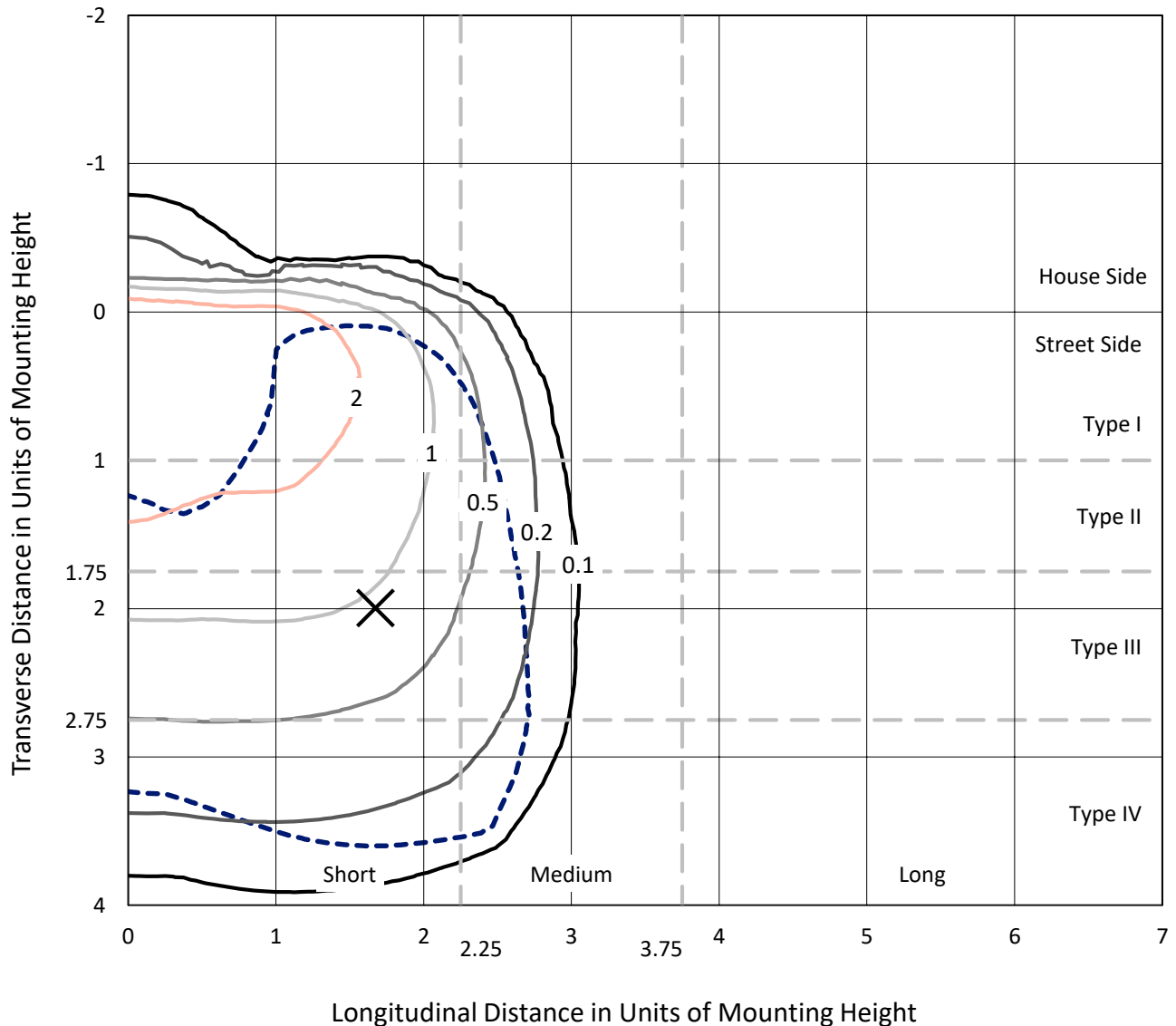
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

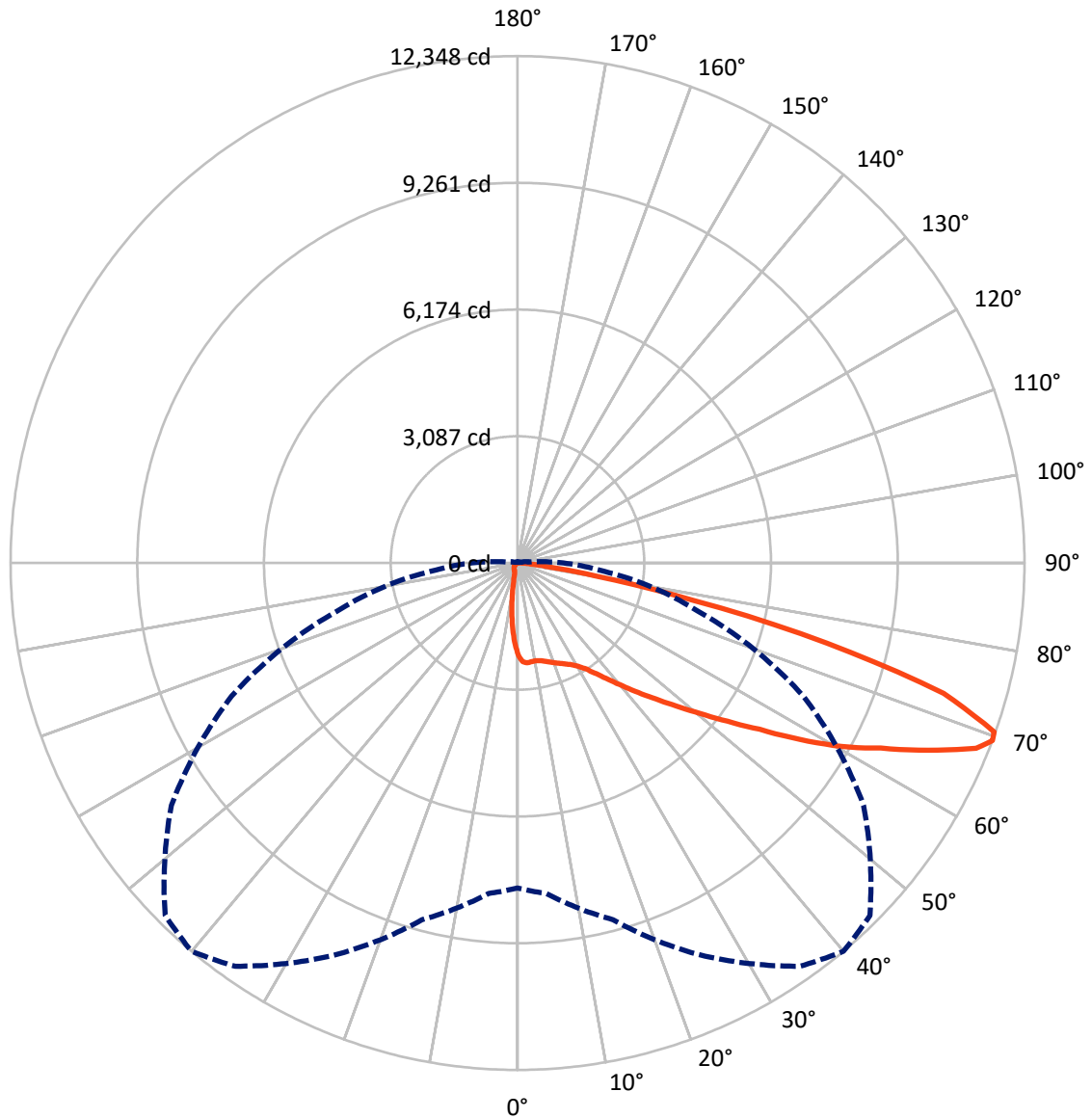


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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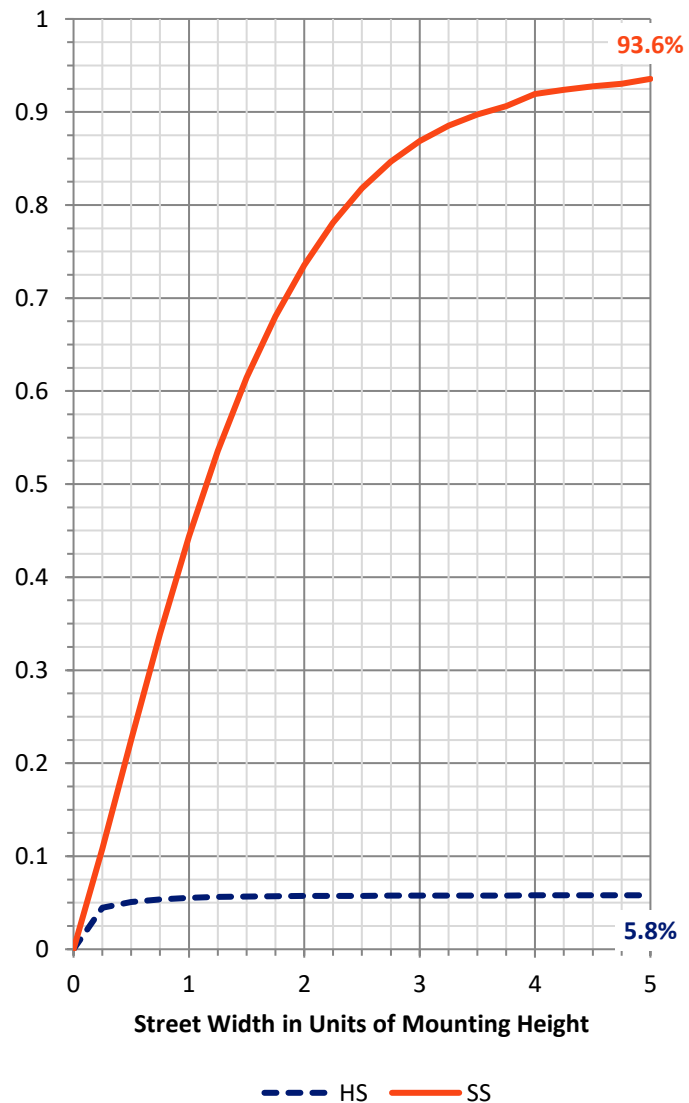
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	879.1	0.0	879.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	14147.3	0.0	14147.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	15026.4	0.0	15026.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	1.2
10°-20°	447.6	3.0
20°-30°	754.0	5.0
30°-40°	1234.3	8.2
40°-50°	2137.1	14.2
50°-60°	3366.2	22.4
60°-70°	4396.1	29.3
70°-80°	2264.2	15.1
80°-90°	244.9	1.6
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°	15026.4	100.0
0°-180°	15026.4	100.0



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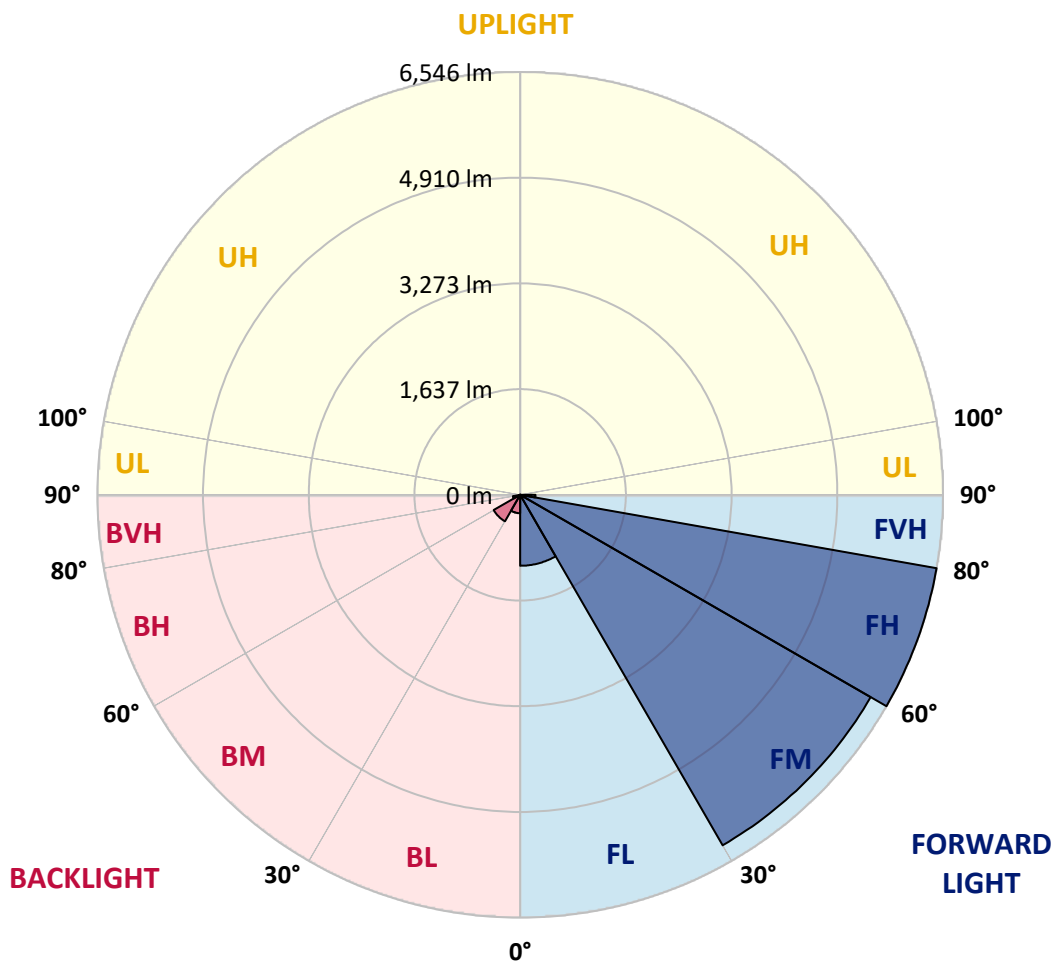
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1098.9	7.3			
FM	(30°-60°)	6265.1	41.7			
FH	(60°-80°)	6546.1	43.6			G3/7500
FVH	(80°-90°)	237.2	1.6			G3/500
BL	(0°-30°)	284.8	1.9	B1/500		
BM	(30°-60°)	472.5	3.1	B1/1000		
BH	(60°-80°)	114.2	0.8	B1/500		G1/500
BVH	(80°-90°)	7.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0
2.5°	2465.1	2451.6	2443.6	2432.9	2419.4	2407.8	2403.3	2370.2	2338.9	2296.0	2246.8
5°	2510.7	2506.2	2491.9	2477.6	2461.5	2443.6	2433.7	2394.4	2349.7	2287.1	2201.2
7.5°	2515.1	2509.8	2491.9	2472.2	2449.8	2428.4	2411.4	2372.0	2330.9	2267.4	2162.7
10°	2508.0	2501.7	2488.3	2466.8	2439.1	2418.5	2401.5	2364.0	2329.1	2271.9	2155.6
12.5°	2499.9	2493.7	2487.4	2476.7	2452.5	2438.2	2423.9	2388.1	2356.8	2308.5	2181.5
15°	2508.0	2504.4	2511.6	2507.1	2493.7	2481.2	2466.8	2434.6	2406.0	2365.8	2228.9
17.5°	2542.0	2542.0	2564.3	2567.0	2554.5	2536.6	2516.0	2483.8	2459.7	2425.7	2285.3
20°	2621.6	2618.9	2647.5	2652.9	2622.5	2594.7	2564.3	2525.0	2506.2	2484.7	2340.7
22.5°	2758.4	2745.9	2762.9	2757.5	2697.6	2654.7	2617.1	2568.8	2559.0	2549.1	2402.4
25°	2936.4	2929.3	2940.9	2888.1	2782.6	2724.4	2679.7	2625.2	2625.2	2635.0	2472.2
27.5°	3194.9	3168.1	3128.7	3035.7	2877.4	2803.1	2754.8	2696.7	2711.9	2748.6	2564.3
30°	3459.7	3430.1	3339.8	3196.7	2992.8	2915.0	2858.6	2797.8	2833.6	2900.6	2687.8
32.5°	3720.8	3687.7	3559.8	3379.2	3158.2	3080.4	3025.9	2958.8	3018.7	3131.4	2868.4
35°	3974.0	3944.4	3796.9	3584.0	3378.3	3313.9	3263.8	3205.6	3282.6	3440.0	3123.4
37.5°	4258.4	4226.2	4046.4	3815.6	3645.7	3599.2	3562.5	3504.4	3638.5	3869.3	3478.4
40°	4608.1	4553.6	4311.2	4081.3	3955.2	3932.8	3907.8	3899.7	4108.1	4427.4	3951.6
42.5°	5008.8	4919.4	4588.4	4361.2	4295.1	4311.2	4304.9	4340.7	4695.8	5121.5	4527.6
45°	5409.5	5294.1	4897.0	4660.0	4668.9	4725.3	4760.2	4903.3	5431.9	5917.6	5147.5
47.5°	5749.4	5635.8	5193.1	4982.9	5090.2	5201.1	5295.9	5566.9	6188.6	6701.1	5629.6
50°	6040.1	5932.8	5507.0	5338.0	5579.5	5758.4	5912.2	6313.8	7002.5	7297.7	5967.6
52.5°	6278.0	6206.5	5832.6	5744.9	6138.5	6400.6	6625.9	7107.2	7723.4	7782.4	6230.6
55°	6509.7	6458.7	6182.3	6228.8	6795.0	7151.9	7437.2	7948.8	8344.2	8186.7	6482.8
57.5°	6776.2	6729.7	6581.2	6842.4	7658.1	8107.1	8418.4	8694.8	8890.6	8600.0	6720.8
60°	7048.1	7021.3	7024.9	7524.0	8649.2	9080.3	9252.0	9323.6	9427.3	8989.0	6734.2
62.5°	7307.5	7358.5	7532.0	8282.4	9598.1	9929.1	10015.8	10086.5	9964.9	9050.8	6221.7
65°	7746.7	7829.9	8244.0	9297.6	10641.9	10996.1	11085.6	10843.2	10049.8	8252.9	5060.7
67.5°	7961.3	8113.4	8852.2	10243.9	11654.4	12048.0	12014.9	10892.4	9018.6	6293.2	3247.7
69°	7916.6	8078.5	8992.6	10533.7	11990.7	12347.6	12137.4	10290.4	7683.2	4558.9	1993.7
70°	7739.5	7903.2	8920.2	10523.0	12033.7	12316.3	11910.3	9547.2	6496.3	3333.5	1246.8
72.5°	6463.2	6604.5	7919.3	9511.4	11085.6	10855.7	9964.0	6614.3	3165.4	907.8	280.9
75°	3978.4	4057.1	5682.3	7165.3	8372.8	7782.4	6638.5	3290.6	943.6	256.7	155.6
77.5°	2101.9	2137.7	3110.8	4223.5	5307.6	4391.7	3402.4	1283.5	434.7	161.0	112.7
80°	1242.4	1269.2	1675.3	1931.1	2296.9	1918.6	1360.4	788.0	311.3	101.1	100.2
82.5°	711.1	728.1	1214.6	1073.3	905.2	772.8	677.1	746.9	186.9	68.0	103.8
85°	261.2	264.8	683.3	816.6	538.4	320.2	336.3	618.9	50.1	42.9	81.4
87.5°	121.6	119.0	351.5	500.0	314.8	203.0	262.1	136.0	19.7	27.7	22.4
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°	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0
2.5°	2218.2	2185.1	2125.2	2063.5	2000.8	1952.5	1905.1	1867.6	1855.1	1831.8	1833.6
5°	2150.2	2089.4	1964.2	1837.2	1704.8	1595.7	1492.8	1409.6	1369.4	1328.2	1328.2
7.5°	2091.2	2002.6	1806.8	1600.1	1386.4	1206.6	1044.7	923.1	856.0	802.3	801.4
10°	2068.8	1949.0	1675.3	1379.2	1081.4	836.3	644.0	520.6	457.1	415.9	414.1
12.5°	2078.7	1930.2	1574.2	1175.3	801.4	537.6	373.0	293.4	266.5	254.0	254.0
15°	2107.3	1924.8	1473.1	975.8	566.2	336.3	247.8	226.3	224.5	224.5	224.5
17.5°	2142.2	1926.6	1369.4	781.7	385.5	240.6	213.8	211.1	212.9	212.9	212.9
20°	2177.9	1927.5	1257.6	602.0	271.9	209.3	201.2	200.4	202.1	202.1	203.0
22.5°	2221.8	1932.0	1145.8	449.9	224.5	197.7	191.4	191.4	192.3	192.3	191.4
25°	2271.9	1940.9	1029.5	333.6	204.8	189.6	184.3	183.4	184.3	183.4	182.5
27.5°	2334.5	1953.4	899.8	261.2	195.9	181.6	177.1	177.1	176.2	175.3	174.4
30°	2413.2	1967.7	754.0	221.8	186.9	174.4	169.9	169.0	168.2	166.4	166.4
32.5°	2533.0	1999.1	610.0	201.2	177.1	164.6	161.0	161.0	159.2	157.4	156.5
35°	2717.3	2060.8	481.2	188.7	166.4	153.8	149.4	149.4	147.6	146.7	145.8
37.5°	2972.2	2154.7	373.9	177.1	155.6	142.2	137.7	136.8	135.1	133.3	132.4
40°	3311.2	2271.0	294.3	166.4	144.9	130.6	127.0	125.2	121.6	119.0	119.0
42.5°	3736.9	2403.3	238.8	154.7	132.4	119.9	117.2	114.5	108.2	105.5	104.6
45°	4182.4	2522.3	202.1	141.3	119.9	109.1	107.3	102.9	94.8	92.1	92.1
47.5°	4503.5	2550.0	178.0	128.8	108.2	97.5	96.6	88.5	81.4	79.6	78.7
50°	4703.8	2495.5	158.3	116.3	97.5	86.8	84.1	74.2	69.8	68.0	67.1
52.5°	4838.9	2398.0	142.2	105.5	87.7	76.9	70.7	63.5	59.9	58.1	58.1
55°	4947.1	2260.2	126.1	95.7	79.6	68.9	59.9	54.6	51.0	49.2	49.2
57.5°	4977.5	2073.3	110.0	87.7	71.6	60.8	51.0	47.4	42.9	42.0	42.0
60°	4756.6	1736.1	97.5	77.8	64.4	52.8	44.7	40.2	35.8	34.9	34.0
62.5°	4174.3	1343.4	85.9	68.9	56.3	45.6	38.5	33.1	29.5	29.5	29.5
65°	3184.2	900.7	75.1	59.9	49.2	38.5	33.1	26.8	25.0	25.0	25.9
67.5°	1906.0	490.1	64.4	51.0	42.0	32.2	27.7	23.3	22.4	23.3	23.3
69°	1117.1	288.0	58.1	45.6	36.7	28.6	24.1	20.6	22.4	23.3	23.3
70°	689.6	194.1	53.7	41.1	33.1	25.9	22.4	19.7	21.5	22.4	22.4
72.5°	192.3	100.2	42.9	32.2	26.8	21.5	17.9	17.9	20.6	21.5	21.5
75°	125.2	74.2	33.1	24.1	20.6	17.0	15.2	17.0	19.7	20.6	20.6
77.5°	103.8	60.8	26.8	19.7	17.0	16.1	14.3	15.2	17.9	18.8	18.8
80°	94.8	42.9	21.5	17.9	15.2	14.3	13.4	12.5	16.1	17.0	17.0
82.5°	90.3	34.0	18.8	16.1	14.3	12.5	11.6	12.5	14.3	15.2	16.1
85°	56.3	22.4	17.0	15.2	12.5	11.6	11.6	11.6	13.4	14.3	14.3
87.5°	20.6	17.9	15.2	12.5	10.7	10.7	10.7	10.7	11.6	13.4	13.4
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)