

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: P940769

Luminaire Tested: **GALN-SB4A-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16481 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 114
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

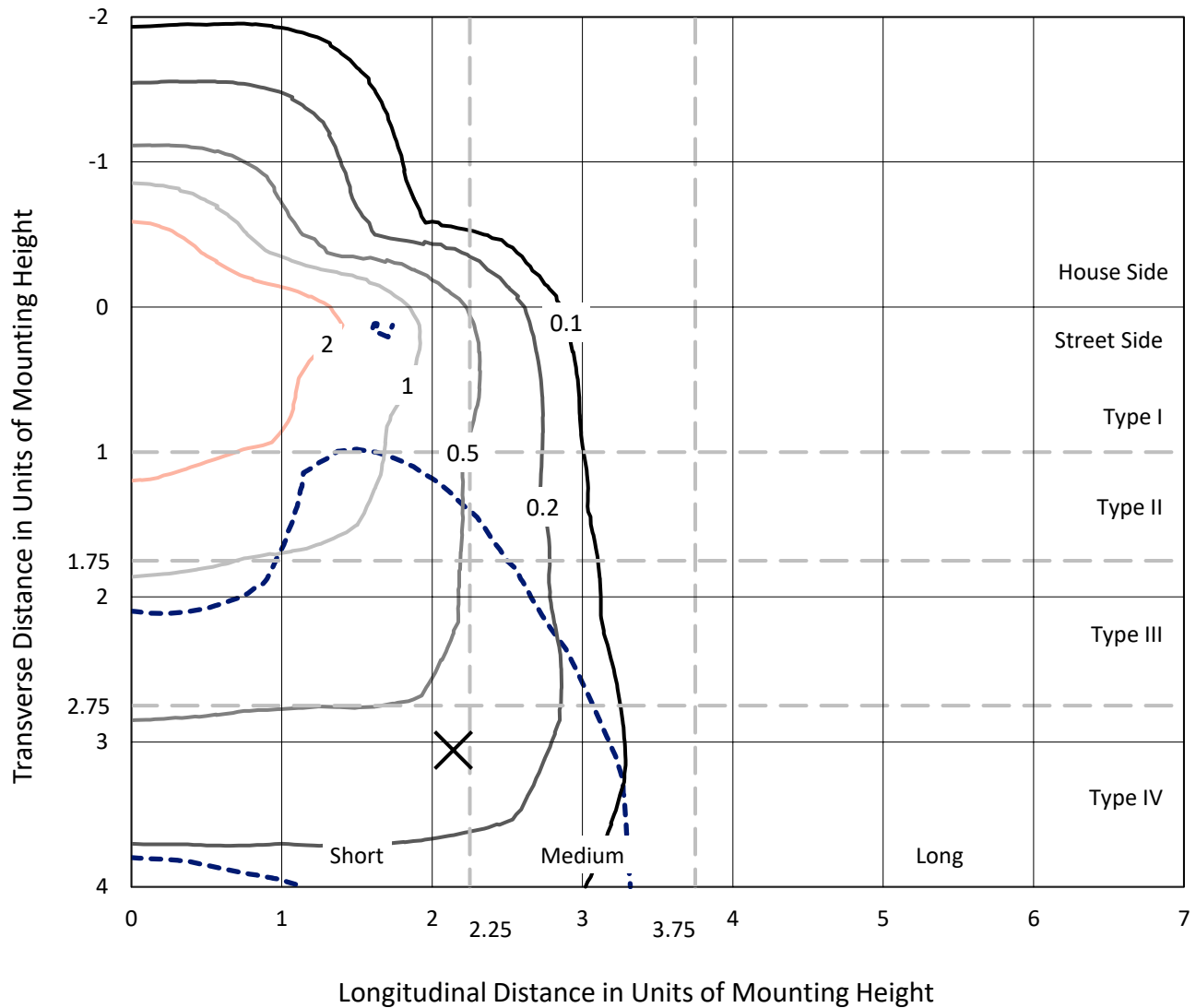


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

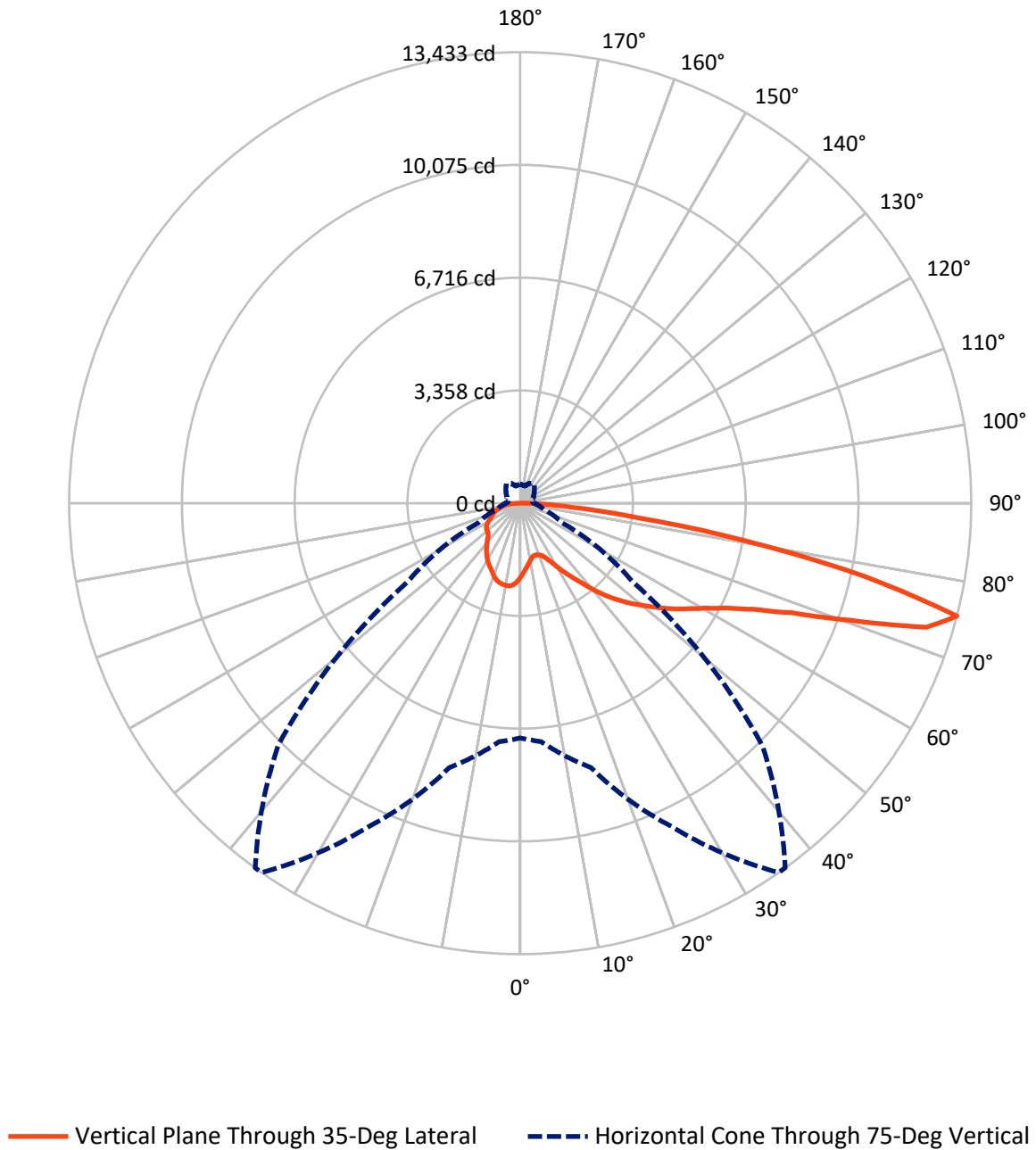


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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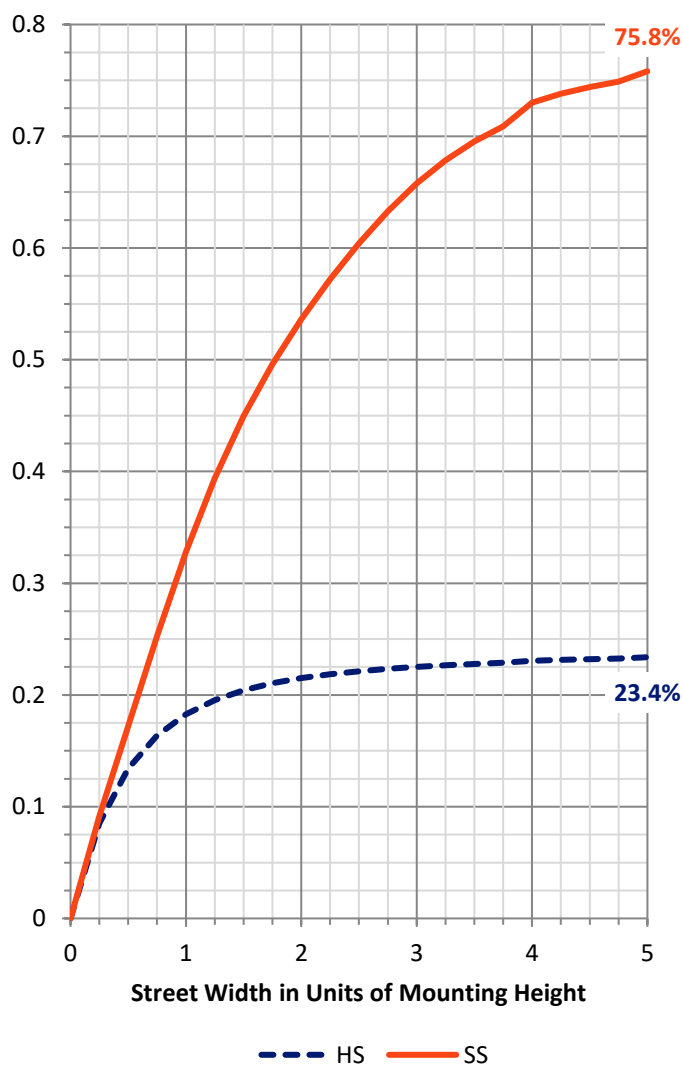
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3922.1	0.0	3922.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	12558.9	0.0	12558.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	16481.0	0.0	16481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	1.3
10°-20°	599.8	3.6
20°-30°	1007.2	6.1
30°-40°	1565.3	9.5
40°-50°	2323.3	14.1
50°-60°	3207.5	19.5
60°-70°	3891.4	23.6
70°-80°	3216.0	19.5
80°-90°	462.6	2.8
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°	16481.0	100.0
0°-180°	16481.0	100.0

Coefficient of Utilization



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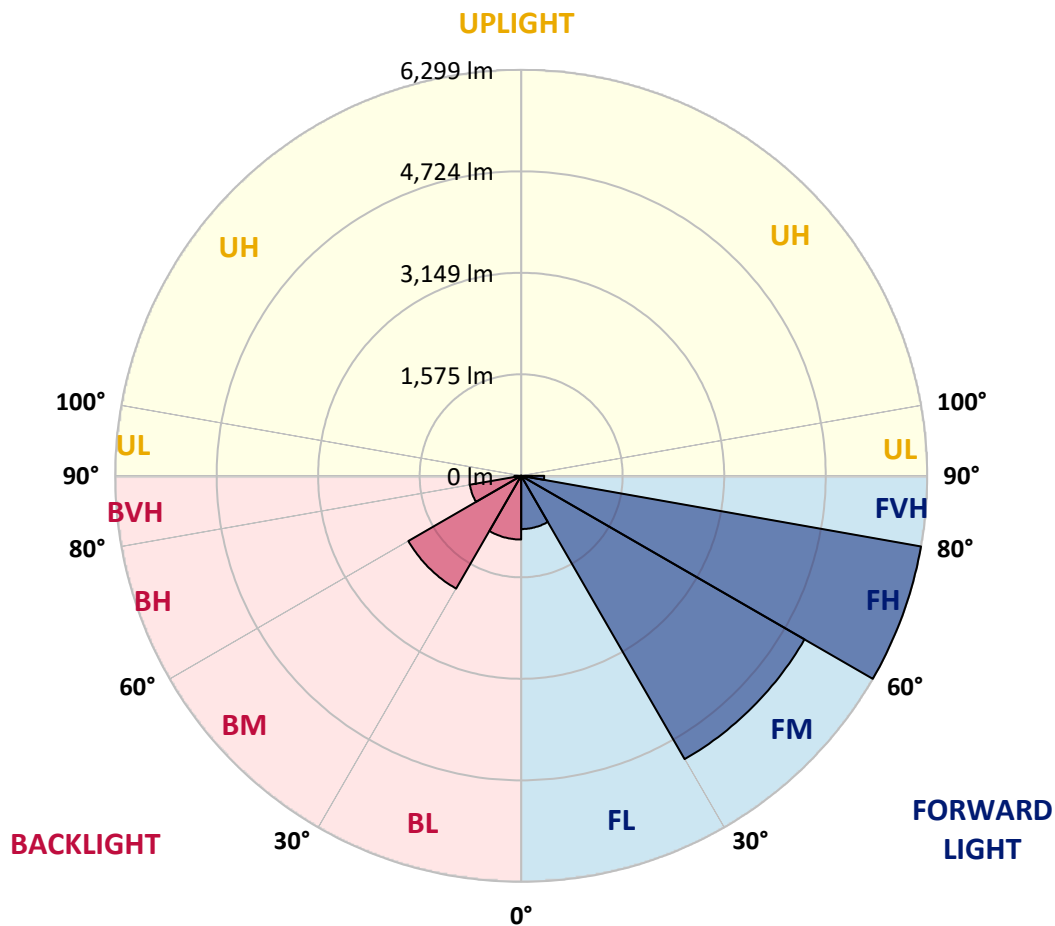
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	826.5	5.0			
FM	(30°-60°)	5075.3	30.8			
FH	(60°-80°)	6298.8	38.2			G3/7500
FVH	(80°-90°)	358.4	2.2			G3/500
BL	(0°-30°)	988.4	6.0	B2/1000		
BM	(30°-60°)	2020.9	12.3	B2/2500		
BH	(60°-80°)	808.6	4.9	B2/1000		G2/1000
BVH	(80°-90°)	104.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2
2.5°	2025.1	2037.6	2043.0	2040.3	2053.7	2051.9	2070.6	2093.7	2125.8	2157.0	2202.4
5°	1869.2	1882.6	1894.2	1904.9	1930.7	1938.7	1968.1	2012.7	2071.5	2131.2	2206.0
7.5°	1724.0	1735.6	1753.4	1773.0	1816.7	1824.7	1873.7	1943.2	2025.1	2112.5	2215.8
10°	1605.5	1617.1	1635.8	1658.1	1712.4	1722.2	1784.6	1877.2	1984.2	2094.6	2226.5
12.5°	1554.7	1558.3	1569.0	1591.2	1638.5	1644.7	1713.3	1819.3	1944.1	2081.3	2242.5
15°	1552.0	1559.2	1560.1	1571.6	1610.8	1613.5	1676.8	1781.9	1919.1	2078.6	2266.6
17.5°	1578.8	1584.1	1576.1	1583.2	1616.2	1620.6	1670.5	1764.1	1911.1	2090.2	2307.6
20°	1650.0	1654.5	1630.4	1620.6	1644.7	1648.3	1697.3	1775.7	1919.1	2114.2	2363.7
22.5°	1801.5	1804.2	1745.4	1705.3	1707.1	1708.9	1751.6	1822.9	1950.3	2157.9	2435.0
25°	2037.6	2035.8	1942.3	1864.8	1820.2	1810.4	1838.9	1899.5	2002.9	2215.8	2526.7
27.5°	2313.8	2300.4	2206.9	2091.1	1994.0	1979.7	1973.5	1999.3	2077.7	2292.4	2639.0
30°	2625.6	2613.2	2512.5	2361.0	2226.5	2203.3	2144.5	2131.2	2189.1	2396.7	2794.9
32.5°	2967.8	2959.8	2839.5	2655.9	2476.0	2449.2	2350.3	2314.7	2360.1	2554.4	3012.3
35°	3254.7	3247.5	3147.7	2958.9	2738.8	2705.8	2605.2	2565.1	2588.2	2756.6	3296.5
37.5°	3513.9	3510.4	3424.8	3276.0	3048.8	3008.8	2895.6	2882.2	2877.8	3023.0	3641.3
40°	3754.5	3745.6	3656.5	3578.1	3409.7	3373.2	3273.4	3261.8	3227.9	3350.9	4031.6
42.5°	4020.9	3997.7	3868.5	3832.0	3786.6	3756.3	3696.6	3698.4	3623.5	3720.6	4445.0
45°	4238.3	4224.9	4092.2	4070.8	4119.8	4107.3	4159.0	4172.3	4027.1	4108.2	4874.4
47.5°	4471.7	4459.2	4347.0	4331.8	4464.6	4468.1	4650.8	4655.2	4420.9	4510.9	5304.7
50°	4759.5	4741.7	4630.3	4649.0	4797.8	4811.2	5145.3	5115.0	4783.5	4919.9	5731.5
52.5°	4949.3	4959.9	4935.9	4966.2	5169.3	5181.8	5631.7	5554.2	5142.6	5323.5	6150.3
55°	5089.1	5110.5	5185.4	5254.9	5561.3	5573.8	6090.6	5972.1	5440.2	5697.7	6544.1
57.5°	5269.1	5238.8	5378.7	5514.1	5933.8	5966.7	6536.9	6374.8	5703.9	6020.2	6814.0
60°	5527.5	5506.1	5614.8	5815.3	6350.7	6403.3	7009.1	6737.4	5897.2	6275.9	6866.6
62.5°	6051.4	5997.9	6014.8	6192.1	6876.4	6945.9	7541.9	7053.7	5993.5	6375.7	6585.1
65°	6834.5	6742.7	6657.2	6780.2	7616.8	7685.4	8143.3	7302.3	5957.8	6182.3	5837.5
67.5°	7820.8	7729.9	7624.8	7740.6	8707.3	8761.7	8885.5	7442.1	5677.2	5437.5	4516.3
70°	8634.2	8600.4	8726.0	9202.7	10449.1	10450.9	9837.0	7326.3	4908.3	3855.2	2613.2
72.5°	8526.4	8505.9	9167.9	10641.6	12644.4	12597.2	10737.8	6449.6	3306.3	1739.1	979.2
75°	6994.9	7127.6	8153.1	10615.7	13432.9	13426.7	10186.3	4100.2	1367.6	720.8	506.1
77.5°	3750.9	3961.2	5293.2	7837.7	10486.5	10644.2	7161.5	1434.4	587.1	461.5	350.1
80°	1223.3	1406.8	2109.8	3990.6	6814.0	6784.6	3069.3	563.1	401.8	327.0	242.3
82.5°	519.4	540.8	942.6	1884.4	3497.0	3442.7	977.4	323.4	282.4	223.6	149.7
85°	203.1	227.2	416.1	871.4	1514.6	1481.7	352.8	160.4	180.9	146.1	89.1
87.5°	66.8	81.1	148.8	298.5	471.3	454.4	86.4	55.2	78.4	66.8	32.1
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°	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2	2196.2
2.5°	2214.9	2229.2	2246.1	2271.0	2292.4	2310.2	2329.0	2340.5	2345.0	2358.4	2357.5
5°	2231.0	2262.1	2304.0	2345.0	2385.1	2409.1	2430.5	2441.2	2451.0	2458.1	2459.9
7.5°	2257.7	2297.8	2363.7	2417.2	2451.0	2470.6	2484.9	2481.3	2484.9	2486.7	2489.3
10°	2280.8	2337.0	2415.4	2466.2	2492.0	2492.9	2489.3	2476.9	2470.6	2471.5	2473.3
12.5°	2308.5	2370.8	2455.5	2498.2	2505.4	2485.8	2470.6	2449.2	2441.2	2437.7	2435.9
15°	2345.9	2417.2	2499.1	2515.2	2497.3	2472.4	2446.6	2411.8	2394.0	2379.7	2384.2
17.5°	2391.3	2469.7	2533.0	2521.4	2483.1	2442.1	2400.2	2347.7	2311.1	2296.0	2296.9
20°	2454.6	2525.0	2558.8	2508.0	2450.1	2387.8	2316.5	2252.3	2218.5	2203.3	2201.6
22.5°	2531.2	2598.9	2583.8	2484.9	2402.9	2303.1	2214.0	2166.8	2149.9	2139.2	2141.0
25°	2623.0	2680.9	2601.6	2451.0	2325.4	2190.9	2122.3	2107.1	2099.1	2091.1	2091.1
27.5°	2742.4	2773.5	2615.0	2401.1	2204.2	2071.5	2046.5	2049.2	2046.5	2033.2	2035.8
30°	2900.1	2893.8	2627.4	2320.0	2065.2	1963.7	1965.4	1977.0	1978.8	1969.9	1974.4
32.5°	3107.7	3044.4	2633.7	2214.9	1932.5	1869.2	1871.0	1883.5	1892.4	1877.2	1884.4
35°	3358.9	3219.9	2623.9	2083.1	1830.0	1779.2	1765.9	1769.4	1772.1	1757.9	1767.7
37.5°	3652.0	3416.8	2580.2	1936.9	1745.4	1691.0	1662.5	1638.5	1624.2	1610.8	1619.8
40°	3973.7	3631.5	2500.0	1794.4	1650.9	1597.5	1554.7	1509.3	1461.2	1443.3	1451.4
42.5°	4310.4	3852.5	2402.9	1658.1	1542.2	1498.6	1453.1	1387.2	1315.0	1278.5	1283.0
45°	4659.7	4078.8	2307.6	1523.5	1430.9	1412.2	1359.6	1280.3	1201.9	1155.6	1152.0
47.5°	5001.8	4292.6	2167.7	1388.1	1326.6	1347.1	1306.1	1233.1	1145.8	1072.7	1064.7
50°	5328.8	4493.1	1938.7	1250.9	1242.0	1327.5	1288.3	1183.2	1083.4	989.9	981.8
52.5°	5653.1	4655.2	1645.6	1126.2	1196.6	1322.2	1265.2	1149.3	1027.3	929.3	918.6
55°	5928.4	4739.0	1363.2	1019.3	1130.6	1276.7	1237.5	1109.2	948.0	843.7	834.8
57.5°	6085.2	4671.3	1127.9	914.1	1039.7	1201.9	1190.3	1023.7	853.5	773.3	762.7
60°	6017.5	4396.9	935.5	822.4	953.3	1120.8	1108.3	939.1	781.4	705.6	694.9
62.5°	5644.2	3873.9	783.1	742.2	874.9	1038.0	1026.4	874.0	726.1	653.1	641.5
65°	4892.2	3151.3	664.7	675.3	795.6	938.2	955.1	819.7	682.5	611.2	599.6
67.5°	3731.3	2282.6	572.0	617.4	718.1	840.2	889.2	780.5	645.9	578.2	567.5
70°	2126.7	1296.3	493.6	561.3	649.5	749.3	838.4	749.3	606.7	550.6	543.5
72.5°	806.3	595.2	426.8	505.2	583.6	672.7	782.3	700.3	561.3	519.4	512.3
75°	430.3	362.6	359.1	439.2	507.8	597.8	711.9	652.2	527.4	548.8	566.6
77.5°	293.1	256.6	300.3	376.0	425.0	515.0	637.0	579.1	457.1	455.3	419.6
80°	203.1	181.8	244.1	302.9	328.8	433.0	556.0	497.2	372.4	347.5	332.3
82.5°	122.1	118.5	182.6	226.3	232.5	334.1	460.6	417.0	304.7	265.5	267.3
85°	66.8	70.4	116.7	132.8	135.4	233.4	360.8	322.5	234.3	196.9	198.7
87.5°	18.7	24.1	42.8	52.6	65.0	121.2	214.7	191.6	117.6	82.0	82.0
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)