

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: P941437

Luminaire Tested: **GALN-SB5A-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-722-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18731 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.7
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

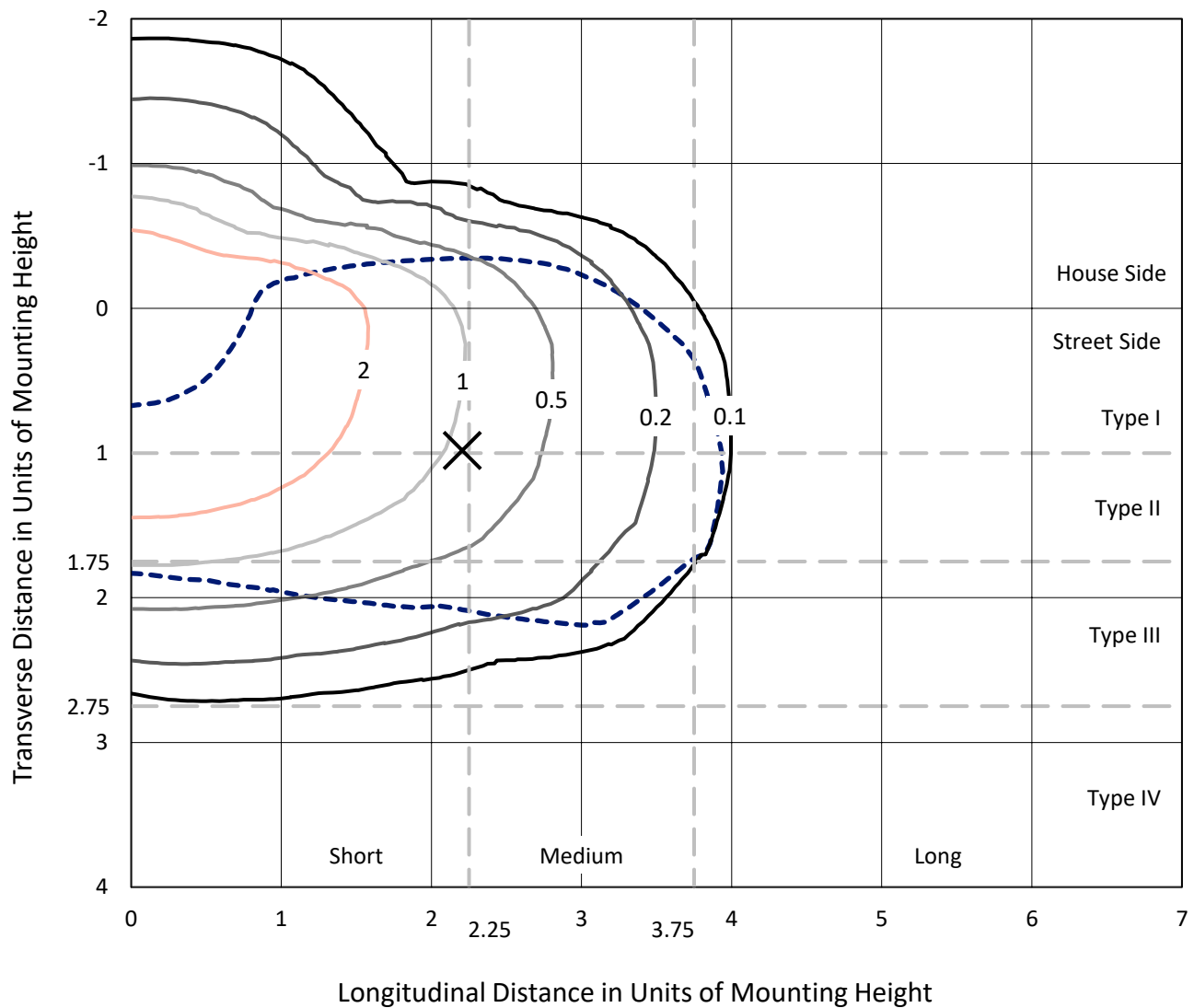


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

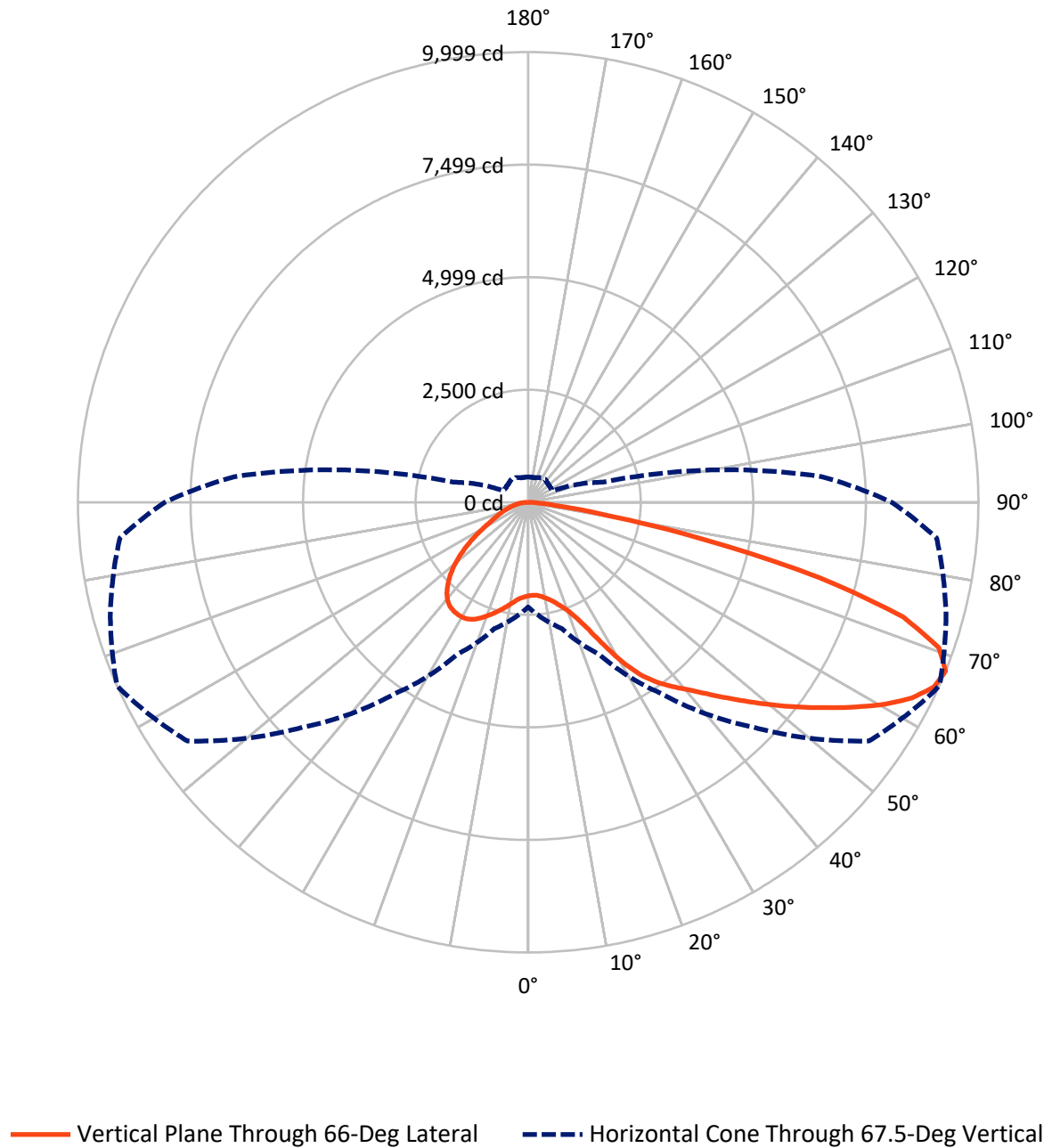


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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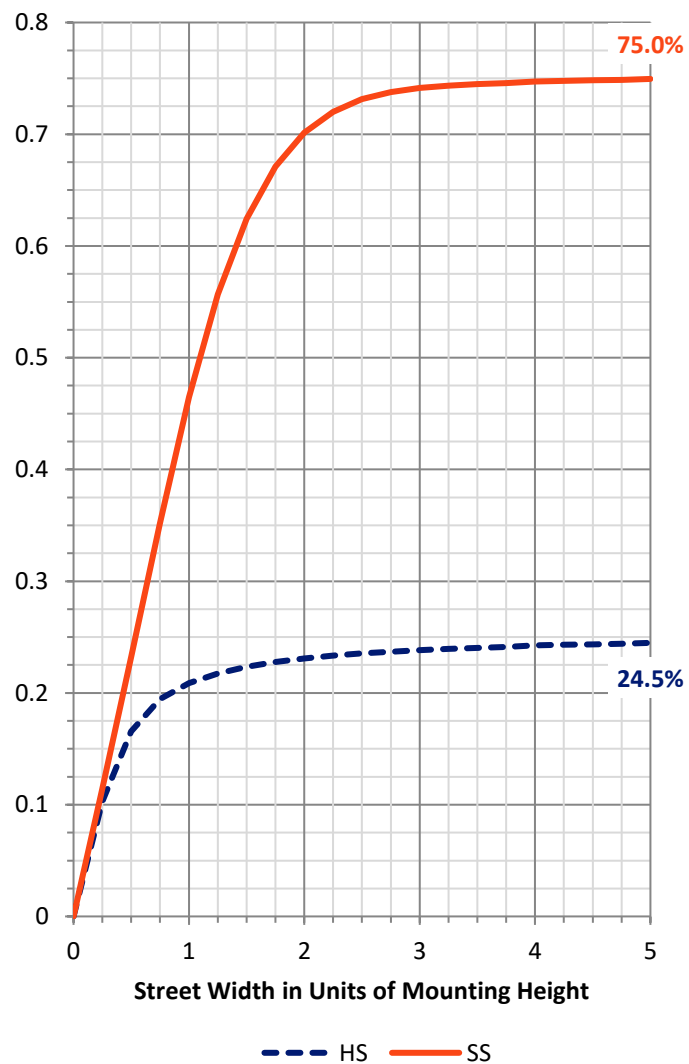
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4657.4	0.0	4657.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	14073.6	0.0	14073.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	18731.0	0.0	18731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	1.1
10°-20°	680.5	3.6
20°-30°	1311.7	7.0
30°-40°	2299.8	12.3
40°-50°	3419.1	18.3
50°-60°	4334.1	23.1
60°-70°	4240.8	22.6
70°-80°	2022.9	10.8
80°-90°	216.2	1.2
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°	18731.0	100.0
0°-180°	18731.0	100.0

Coefficient of Utilization



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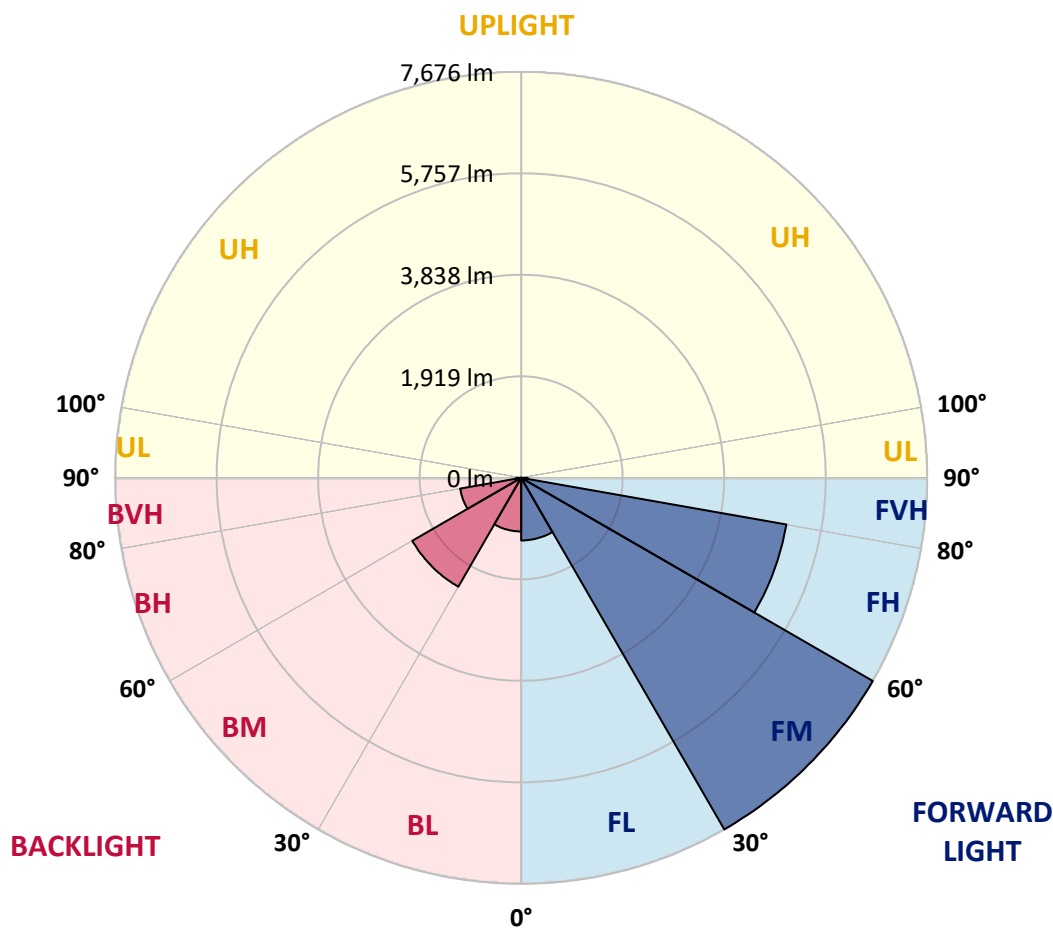
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.6	6.3			
FM	(30°-60°)	7675.8	41.0			
FH	(60°-80°)	5091.6	27.2			G3/7500
FVH	(80°-90°)	122.6	0.7			G2/225
BL	(0°-30°)	1014.6	5.4	B3/2500		
BM	(30°-60°)	2377.2	12.7	B2/2500		
BH	(60°-80°)	1172.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	93.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5
2.5°	2055.9	2067.7	2064.7	2059.8	2058.8	2060.8	2063.7	2066.7	2065.7	2070.6	2078.5
5°	2050.0	2061.8	2060.8	2060.8	2064.7	2072.6	2077.5	2082.4	2077.5	2083.4	2094.2
7.5°	2053.9	2062.8	2066.7	2070.6	2080.5	2095.2	2107.0	2117.9	2112.0	2118.8	2132.6
10°	2104.1	2111.0	2114.9	2114.9	2121.8	2138.5	2150.3	2170.0	2165.1	2175.9	2193.6
12.5°	2195.6	2202.5	2202.5	2198.6	2203.5	2214.3	2218.2	2239.9	2231.0	2248.8	2266.5
15°	2307.8	2321.6	2310.8	2303.9	2305.8	2316.7	2315.7	2332.4	2323.5	2338.3	2354.1
17.5°	2431.8	2449.5	2431.8	2430.8	2426.9	2438.7	2439.7	2454.4	2438.7	2449.5	2460.3
20°	2578.4	2603.0	2588.3	2593.2	2584.3	2589.3	2594.2	2615.8	2591.2	2599.1	2596.2
22.5°	2785.1	2814.6	2798.9	2817.6	2811.7	2807.7	2806.8	2845.1	2806.8	2809.7	2781.2
25°	3086.3	3121.7	3094.1	3119.7	3119.7	3132.5	3147.3	3196.5	3132.5	3113.8	3040.0
27.5°	3531.1	3566.5	3512.4	3528.1	3523.2	3554.7	3539.0	3661.0	3592.1	3561.6	3413.0
30°	4066.5	4129.4	4027.1	4023.2	4018.2	4068.4	4091.1	4171.8	4101.9	4071.4	3892.3
32.5°	4645.1	4711.1	4589.0	4553.6	4534.9	4565.4	4546.7	4611.7	4563.4	4516.2	4294.8
35°	5257.3	5322.2	5206.1	5137.2	5062.4	4998.4	4931.5	4948.2	4903.0	4831.1	4601.8
37.5°	5835.9	5955.0	5832.0	5758.2	5620.4	5495.4	5308.4	5230.7	5188.4	5122.4	4891.2
40°	6425.4	6493.3	6399.8	6336.9	6187.3	5991.4	5692.3	5527.9	5470.8	5406.9	5211.0
42.5°	6859.4	6924.4	6874.2	6830.9	6713.8	6486.5	6099.7	5894.0	5811.3	5739.5	5573.2
45°	7203.9	7252.1	7220.6	7236.4	7186.2	6965.7	6521.9	6286.7	6201.1	6113.5	5982.6
47.5°	7342.7	7393.8	7444.0	7537.5	7623.1	7460.8	6975.6	6711.8	6621.3	6531.7	6402.8
50°	7326.9	7379.1	7524.7	7723.5	7989.2	7935.1	7453.9	7164.5	7080.9	6978.5	6859.4
52.5°	7200.9	7260.0	7447.0	7777.6	8200.8	8290.4	7941.0	7632.0	7553.3	7431.2	7312.1
55°	6870.3	6905.7	7186.2	7654.6	8251.0	8538.4	8418.3	8130.0	8051.2	7881.0	7751.1
57.5°	6257.1	6308.3	6716.7	7323.0	8125.0	8706.7	8837.6	8653.5	8577.7	8332.7	8196.9
60°	5457.0	5538.7	6006.2	6765.9	7804.2	8705.7	9218.4	9168.2	9105.2	8777.5	8635.8
62.5°	4551.6	4646.1	5095.9	5978.6	7243.3	8458.7	9456.6	9599.3	9566.8	9187.9	9006.8
65°	3495.7	3560.6	4008.4	4960.1	6370.3	7928.2	9484.1	9893.5	9899.4	9499.9	9200.7
67.5°	2327.5	2514.5	2903.2	3722.0	5201.2	7061.2	9242.0	9941.8	9998.8	9607.2	9103.3
70°	1135.7	1381.7	1762.6	2419.0	3722.0	5731.6	8609.2	9546.1	9673.1	9294.2	8522.6
72.5°	471.4	551.1	758.8	1193.8	2136.6	3867.7	7337.7	8473.4	8708.6	8235.3	7165.5
75°	317.9	344.4	434.0	612.1	973.3	1907.3	5291.7	6318.2	6697.1	6219.8	5084.1
77.5°	245.1	261.8	315.9	428.1	578.7	721.4	2832.3	3807.6	4003.5	3706.3	2645.4
80°	192.9	205.7	236.2	312.0	410.4	385.8	965.4	1725.2	1838.4	1542.1	850.3
82.5°	167.3	172.2	169.3	211.6	272.6	225.4	316.9	636.7	702.7	509.8	277.5
85°	121.0	134.8	140.7	130.9	144.7	114.2	129.9	225.4	248.0	221.4	156.5
87.5°	49.2	72.8	89.6	84.6	53.1	32.5	40.3	65.9	75.8	82.7	51.2
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°	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5	2077.5
2.5°	2079.5	2086.4	2091.3	2097.2	2101.1	2107.0	2118.8	2125.7	2126.7	2131.6	2130.7
5°	2098.2	2108.0	2118.8	2134.6	2152.3	2167.1	2189.7	2205.5	2211.4	2216.3	2215.3
7.5°	2138.5	2152.3	2172.0	2199.5	2225.1	2244.8	2272.4	2291.1	2309.8	2316.7	2317.6
10°	2198.6	2218.2	2246.8	2284.2	2311.7	2337.3	2365.9	2381.6	2400.3	2408.2	2412.1
12.5°	2273.4	2294.0	2331.4	2383.6	2409.2	2426.9	2436.7	2432.8	2436.7	2443.6	2445.6
15°	2359.0	2381.6	2423.9	2480.0	2497.7	2482.0	2460.3	2440.7	2437.7	2439.7	2446.6
17.5°	2460.3	2477.1	2526.3	2573.5	2560.7	2495.8	2448.5	2417.0	2401.3	2396.4	2403.3
20°	2602.1	2602.1	2642.4	2671.9	2586.3	2476.1	2402.3	2351.1	2318.6	2304.9	2301.9
22.5°	2774.3	2758.5	2784.1	2763.5	2581.4	2421.0	2318.6	2230.1	2180.8	2161.2	2158.2
25°	2992.8	2974.1	2967.2	2839.2	2546.0	2333.4	2167.1	2059.8	2016.5	2005.7	2007.6
27.5°	3322.5	3275.2	3185.7	2880.6	2481.0	2195.6	1989.9	1890.5	1865.9	1866.9	1869.9
30°	3761.4	3666.9	3447.4	2887.5	2374.7	2000.8	1808.8	1738.0	1726.2	1731.1	1747.8
32.5°	4167.8	4078.3	3715.1	2856.0	2211.4	1809.8	1646.5	1599.2	1581.5	1587.4	1595.3
35°	4486.7	4462.1	3963.1	2811.7	2010.6	1630.7	1500.8	1460.5	1426.0	1418.1	1424.0
37.5°	4787.8	4778.0	4149.1	2749.7	1811.8	1503.8	1383.7	1330.6	1280.4	1252.8	1253.8
40°	5118.5	5108.7	4271.2	2654.2	1635.6	1393.5	1278.4	1208.5	1146.5	1096.3	1101.3
42.5°	5490.5	5432.4	4329.2	2517.4	1486.0	1300.0	1192.8	1098.3	1016.6	970.4	973.3
45°	5897.0	5766.1	4328.2	2343.2	1360.1	1214.4	1101.3	967.4	891.6	848.3	846.4
47.5°	6328.0	6084.9	4275.1	2150.3	1238.0	1119.9	959.5	857.2	807.0	780.4	774.5
50°	6772.8	6383.1	4184.6	1928.9	1113.1	1012.7	871.0	801.1	762.7	738.1	729.2
52.5°	7191.1	6653.8	4075.3	1678.0	986.1	908.4	831.6	777.5	737.1	709.6	697.8
55°	7579.8	6887.0	3920.8	1421.1	882.8	838.5	812.9	767.6	721.4	688.9	676.1
57.5°	7925.3	7038.6	3654.1	1180.0	809.0	790.3	793.2	750.9	697.8	670.2	652.5
60°	8212.6	7149.8	3259.5	956.6	748.9	743.0	762.7	719.4	657.4	625.9	612.1
62.5°	8384.9	7147.8	2775.3	783.4	697.8	699.7	722.4	680.0	617.1	587.5	578.7
65°	8370.1	6972.6	2243.8	670.2	648.5	650.5	680.0	636.7	583.6	565.9	564.9
67.5°	8073.9	6545.5	1721.3	596.4	594.4	603.3	637.7	607.2	562.9	561.0	563.9
70°	7271.8	5658.8	1240.0	537.3	538.3	551.1	596.4	588.5	552.1	556.0	555.1
72.5°	5831.0	4314.5	832.6	475.3	476.3	497.0	557.0	573.8	541.3	593.4	601.3
75°	3883.4	2690.6	535.4	409.4	410.4	437.0	522.6	545.2	511.8	591.5	596.4
77.5°	1865.9	1209.5	387.8	344.4	344.4	369.1	451.7	488.1	436.0	459.6	421.2
80°	644.6	454.7	305.1	277.5	271.6	288.4	380.9	423.2	375.9	346.4	324.8
82.5°	253.9	236.2	245.1	215.5	195.8	206.7	296.2	349.4	276.5	250.0	249.0
85°	145.7	153.5	173.2	142.7	113.2	127.0	217.5	251.0	208.6	184.0	188.0
87.5°	39.4	54.1	79.7	73.8	51.2	54.1	103.3	138.8	120.1	92.5	95.5
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)