

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: P945951

Luminaire Tested: **GALN-SB1D-730-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-730-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9949 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

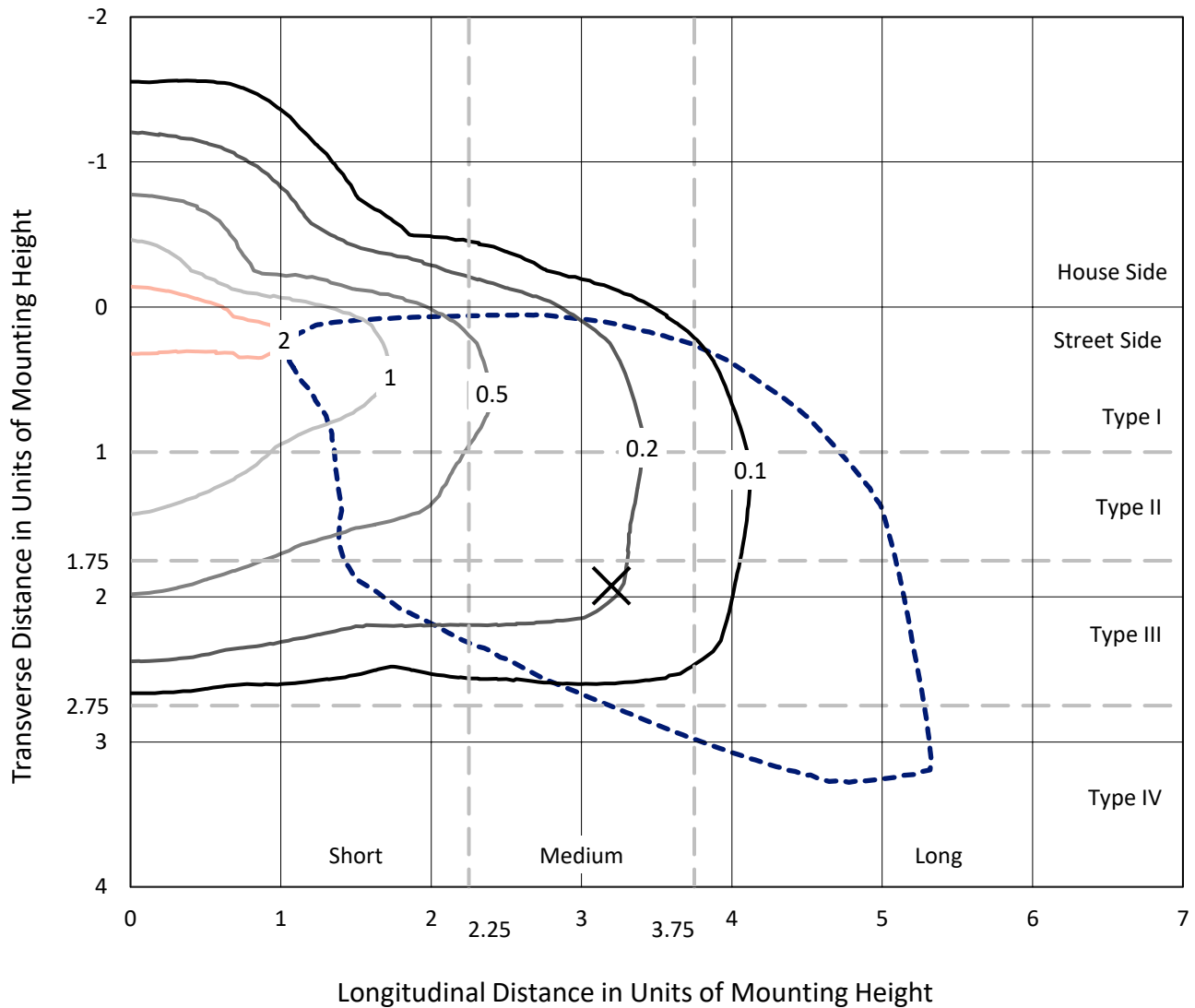
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

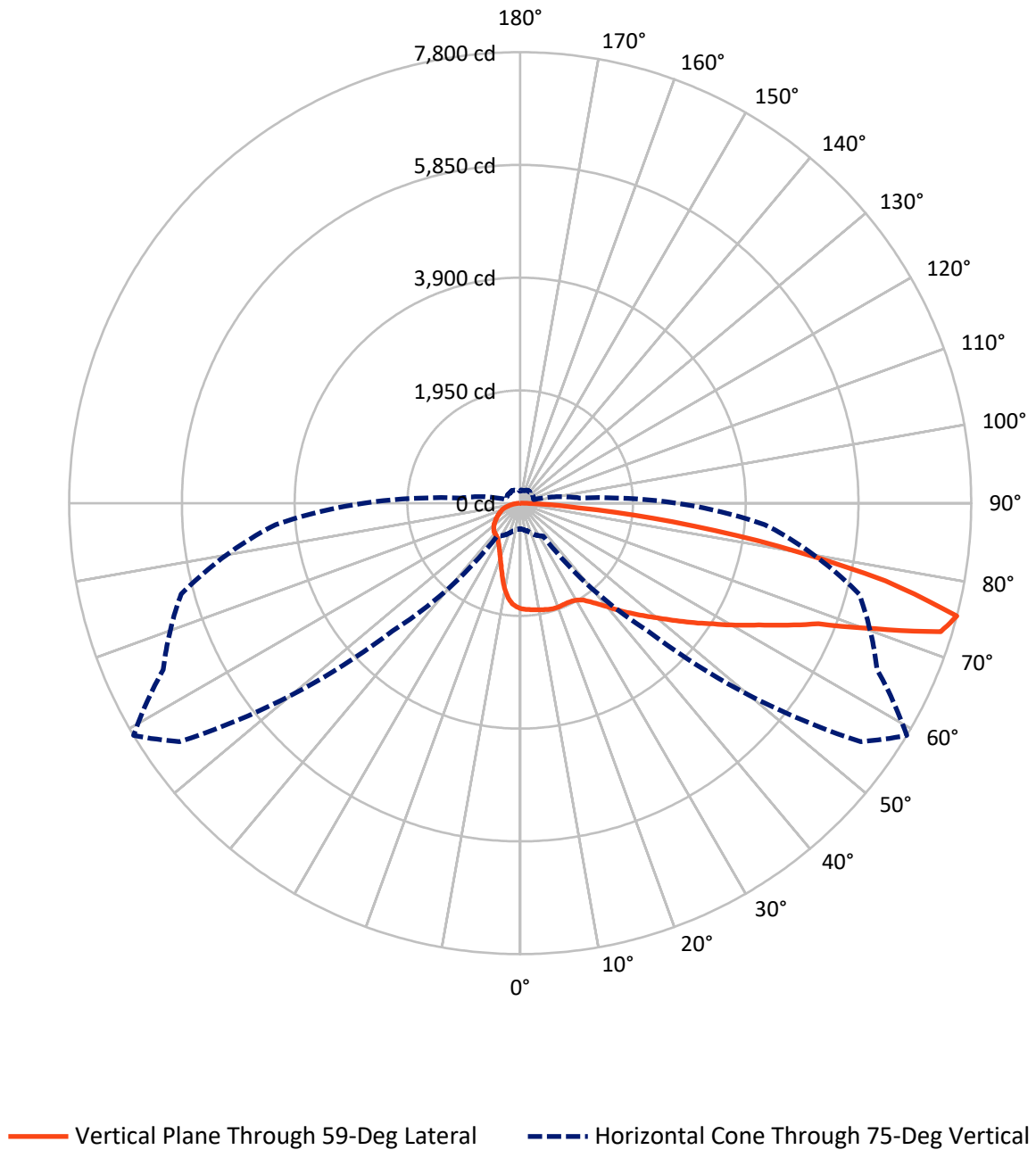
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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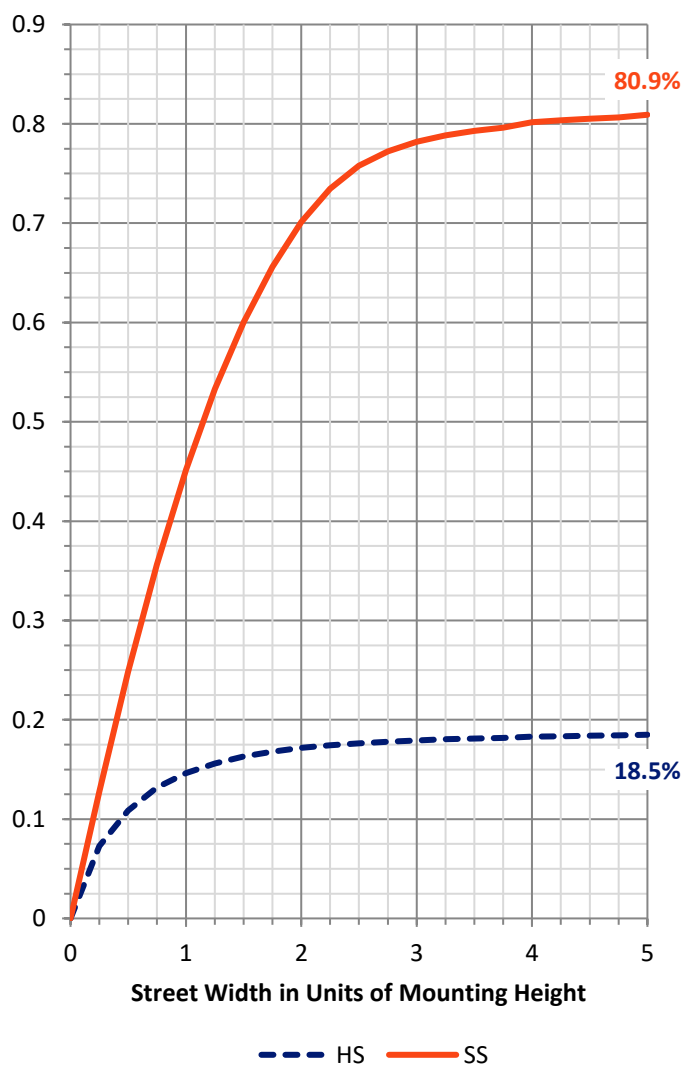
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1866.0	0.0	1866.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8083.0	0.0	8083.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	9949.0	0.0	9949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	1.6
10°-20°	418.5	4.2
20°-30°	635.7	6.4
30°-40°	945.0	9.5
40°-50°	1405.3	14.1
50°-60°	1907.6	19.2
60°-70°	2328.8	23.4
70°-80°	1827.6	18.4
80°-90°	316.6	3.2
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°	9949.0	100.0
0°-180°	9949.0	100.0

Coefficient of Utilization



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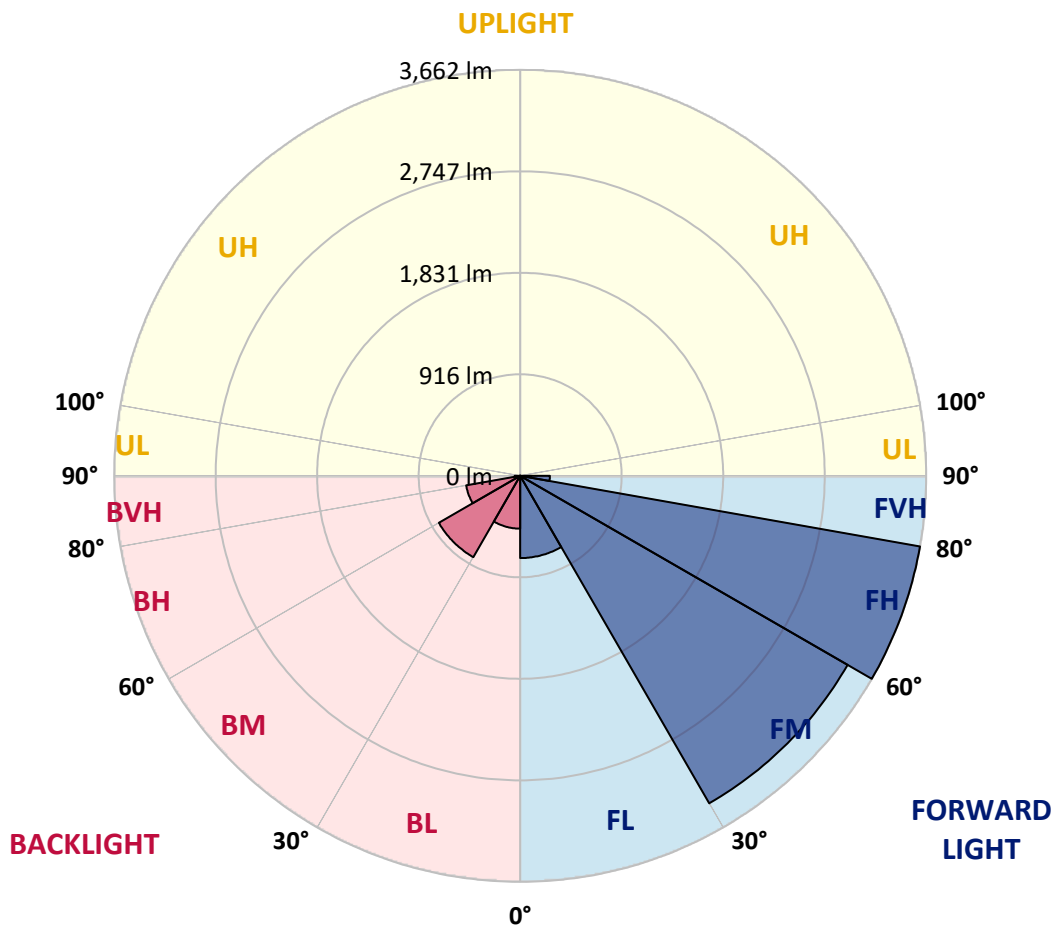
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	741.8	7.5			
FM	(30°-60°)	3410.9	34.3			
FH	(60°-80°)	3662.1	36.8			G2/5000
FVH	(80°-90°)	268.1	2.7			G3/500
BL	(0°-30°)	476.2	4.8	B1/500		
BM	(30°-60°)	847.0	8.5	B1/1000		
BH	(60°-80°)	494.4	5.0	B1/500		G1/500
BVH	(80°-90°)	48.5	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1
2.5°	1841.6	1835.2	1841.6	1839.0	1837.9	1835.8	1836.3	1840.0	1837.9	1840.6	1831.5
5°	1829.3	1825.6	1832.0	1830.4	1837.4	1838.4	1845.4	1849.7	1852.3	1852.9	1845.9
7.5°	1809.0	1805.2	1814.3	1821.8	1836.8	1841.1	1855.6	1862.5	1866.3	1872.7	1862.5
10°	1734.6	1733.0	1755.5	1783.8	1819.2	1841.1	1863.0	1874.8	1880.7	1897.8	1886.1
12.5°	1602.9	1605.1	1634.5	1689.1	1759.8	1830.4	1871.6	1888.7	1897.8	1919.2	1913.9
15°	1477.2	1476.6	1508.7	1567.1	1666.1	1783.3	1875.9	1905.3	1920.8	1952.4	1948.1
17.5°	1404.4	1402.2	1424.7	1469.1	1561.2	1711.0	1865.2	1914.4	1947.6	1987.2	1983.5
20°	1391.0	1386.7	1398.5	1420.4	1485.7	1631.8	1837.4	1914.4	1969.0	2020.4	2018.3
22.5°	1439.7	1432.7	1427.9	1425.2	1454.1	1566.5	1805.8	1908.0	2000.6	2068.0	2064.3
25°	1537.6	1526.9	1502.3	1478.2	1469.7	1537.1	1777.9	1906.4	2047.7	2132.3	2118.3
27.5°	1696.1	1682.7	1632.9	1575.1	1523.2	1552.1	1765.6	1916.0	2099.6	2200.2	2172.4
30°	1892.5	1878.0	1815.4	1726.6	1633.4	1607.8	1781.2	1944.4	2166.0	2290.7	2236.1
32.5°	2068.6	2052.5	1999.0	1908.5	1782.8	1704.1	1830.4	1998.5	2270.3	2416.4	2331.9
35°	2224.8	2206.1	2157.9	2074.5	1965.8	1839.5	1919.2	2094.3	2418.6	2620.9	2461.9
37.5°	2377.9	2356.0	2303.5	2215.2	2139.2	2019.9	2041.8	2217.4	2615.5	2869.2	2634.3
40°	2549.2	2517.6	2453.9	2366.7	2292.8	2231.3	2202.9	2368.3	2815.7	3146.5	2849.4
42.5°	2715.1	2685.1	2609.1	2534.7	2442.1	2424.5	2389.7	2544.9	3034.6	3451.0	3067.8
45°	2893.8	2858.0	2765.9	2671.7	2613.4	2552.9	2570.6	2721.5	3249.2	3761.4	3296.9
47.5°	3061.4	3021.2	2912.6	2807.7	2775.6	2661.0	2736.5	2915.8	3472.4	4076.1	3523.8
50°	3151.8	3112.2	3021.8	2927.0	2901.9	2794.3	2916.3	3129.3	3706.3	4389.7	3741.6
52.5°	3227.3	3184.5	3066.2	3013.7	3006.2	2939.3	3137.9	3373.4	3940.2	4667.0	3951.9
55°	3307.6	3259.9	3109.0	3061.9	3096.2	3102.0	3400.7	3650.1	4187.4	4937.3	4150.5
57.5°	3400.2	3339.7	3150.2	3102.6	3183.9	3292.6	3702.5	3937.0	4430.4	5187.7	4327.1
60°	3487.4	3426.4	3229.4	3167.3	3278.7	3513.6	4048.8	4284.3	4705.5	5410.9	4494.1
62.5°	3504.5	3454.2	3292.6	3292.0	3407.1	3771.6	4458.8	4634.9	4945.8	5631.4	4644.0
65°	3208.0	3176.4	3080.6	3287.2	3591.2	4143.0	4915.3	5083.4	5251.4	5824.1	4775.6
67.5°	2441.6	2445.9	2438.9	2837.7	3442.4	4676.6	5576.3	5563.4	5628.7	6040.3	4927.1
70°	1116.4	1141.6	1305.4	1958.8	2757.9	4738.2	6669.2	6502.7	6102.4	6320.2	5058.2
72.5°	603.2	622.4	689.3	948.9	1658.1	4212.6	7485.9	7604.2	6732.3	6508.6	4914.2
75°	442.6	453.3	499.9	603.2	696.3	3130.9	7193.1	7800.1	6811.0	6069.2	4243.6
77.5°	331.3	336.1	374.1	477.9	356.4	1650.6	5747.6	6459.9	5830.5	4986.5	3134.7
80°	240.3	245.7	274.0	358.6	249.9	603.7	3946.6	4534.3	3993.2	3178.6	1562.3
82.5°	165.9	168.1	180.4	244.1	174.5	234.4	2239.3	2658.9	2229.1	1115.4	421.7
85°	100.1	102.8	108.1	142.4	99.0	111.3	966.6	999.8	666.3	266.5	131.1
87.5°	41.2	43.9	48.2	59.9	39.1	31.0	159.5	200.2	124.7	78.1	40.7
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°	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1	1826.1
2.5°	1828.8	1825.0	1814.9	1801.0	1788.1	1772.1	1765.1	1759.2	1753.9	1743.7	1738.9
5°	1840.0	1829.9	1802.6	1767.2	1727.1	1683.2	1640.4	1611.0	1585.8	1567.1	1551.6
7.5°	1857.2	1837.9	1788.1	1715.9	1623.8	1529.6	1444.5	1384.0	1338.5	1322.0	1293.1
10°	1874.8	1851.8	1765.1	1637.7	1478.8	1333.7	1220.8	1158.7	1122.3	1110.5	1092.4
12.5°	1895.7	1862.0	1729.2	1529.1	1316.6	1157.6	1059.2	1022.8	1004.0	997.6	999.2
15°	1926.2	1870.5	1675.2	1393.1	1161.9	1029.2	965.5	940.4	930.7	930.2	932.3
17.5°	1949.2	1872.1	1591.2	1247.6	1043.1	951.6	899.1	889.5	895.9	905.6	909.3
20°	1974.9	1857.7	1480.9	1114.8	959.6	883.6	861.7	868.1	883.6	897.5	902.4
22.5°	1993.1	1831.5	1347.6	1011.5	887.4	844.6	843.5	856.9	865.4	872.4	876.1
25°	2009.2	1787.0	1206.4	924.8	828.0	821.0	832.8	828.5	822.6	828.5	832.2
27.5°	2020.9	1716.9	1080.0	848.8	786.2	804.9	798.0	788.4	787.8	791.0	796.4
30°	2017.2	1623.3	976.2	776.6	756.8	775.0	758.4	756.8	755.2	756.8	762.7
32.5°	2017.2	1516.8	896.5	726.8	738.0	731.1	729.5	725.7	719.3	718.8	725.7
35°	2028.4	1410.3	828.0	700.0	722.5	705.9	707.0	697.9	684.5	678.1	684.5
37.5°	2051.4	1324.6	760.0	687.2	695.2	694.7	690.4	674.9	651.3	631.0	638.0
40°	2107.1	1299.5	713.4	681.3	682.4	688.8	677.6	647.6	594.1	560.9	565.2
42.5°	2194.3	1341.8	703.3	666.9	673.8	680.2	658.3	588.7	550.7	530.9	530.9
45°	2305.1	1415.6	725.2	646.0	653.5	664.7	599.4	566.2	549.1	549.7	552.3
47.5°	2445.3	1493.2	765.9	627.8	624.0	630.5	560.4	540.0	516.5	522.4	537.3
50°	2607.5	1571.9	804.4	603.2	591.4	570.5	535.2	515.9	486.0	472.1	475.8
52.5°	2783.1	1647.9	819.9	573.2	556.1	532.0	518.1	494.5	458.1	435.1	434.6
55°	2949.5	1716.9	802.8	537.3	520.8	502.0	499.9	485.4	446.4	414.2	414.2
57.5°	3106.9	1774.7	760.0	501.0	484.9	473.7	488.1	481.1	431.9	390.7	388.6
60°	3240.1	1814.3	697.9	464.0	452.8	446.9	468.8	466.7	411.6	365.5	363.9
62.5°	3346.1	1829.9	629.4	428.7	426.0	415.3	442.1	442.1	385.9	340.9	339.3
65°	3429.1	1814.9	559.8	393.9	399.3	383.2	409.4	406.2	358.6	319.0	316.8
67.5°	3502.4	1765.6	482.8	359.7	372.0	351.6	375.2	367.7	328.6	297.0	294.9
70°	3535.0	1651.1	395.0	325.4	340.4	320.6	340.9	327.0	294.9	273.5	269.2
72.5°	3272.8	1372.3	311.0	289.5	302.4	286.3	304.0	287.9	258.5	248.9	240.8
75°	2707.6	1029.7	239.2	250.5	260.1	247.8	259.6	247.8	221.0	228.0	208.2
77.5°	1966.3	695.2	183.0	209.3	213.5	207.1	217.3	203.9	179.8	178.2	170.2
80°	977.8	407.3	143.4	165.4	163.8	159.5	171.3	164.8	144.5	153.1	151.5
82.5°	283.1	174.5	104.4	116.1	112.9	114.0	122.6	125.8	188.4	186.8	191.1
85°	88.8	68.5	62.6	64.8	61.5	63.2	72.3	143.4	132.7	77.6	84.0
87.5°	23.0	23.5	15.5	16.6	17.1	20.3	23.0	87.2	41.7	27.3	28.9
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)