

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: STREETWORKS

Report Number: P965758

Luminaire Tested: **NVN-SB4A-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4A-827-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15992 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

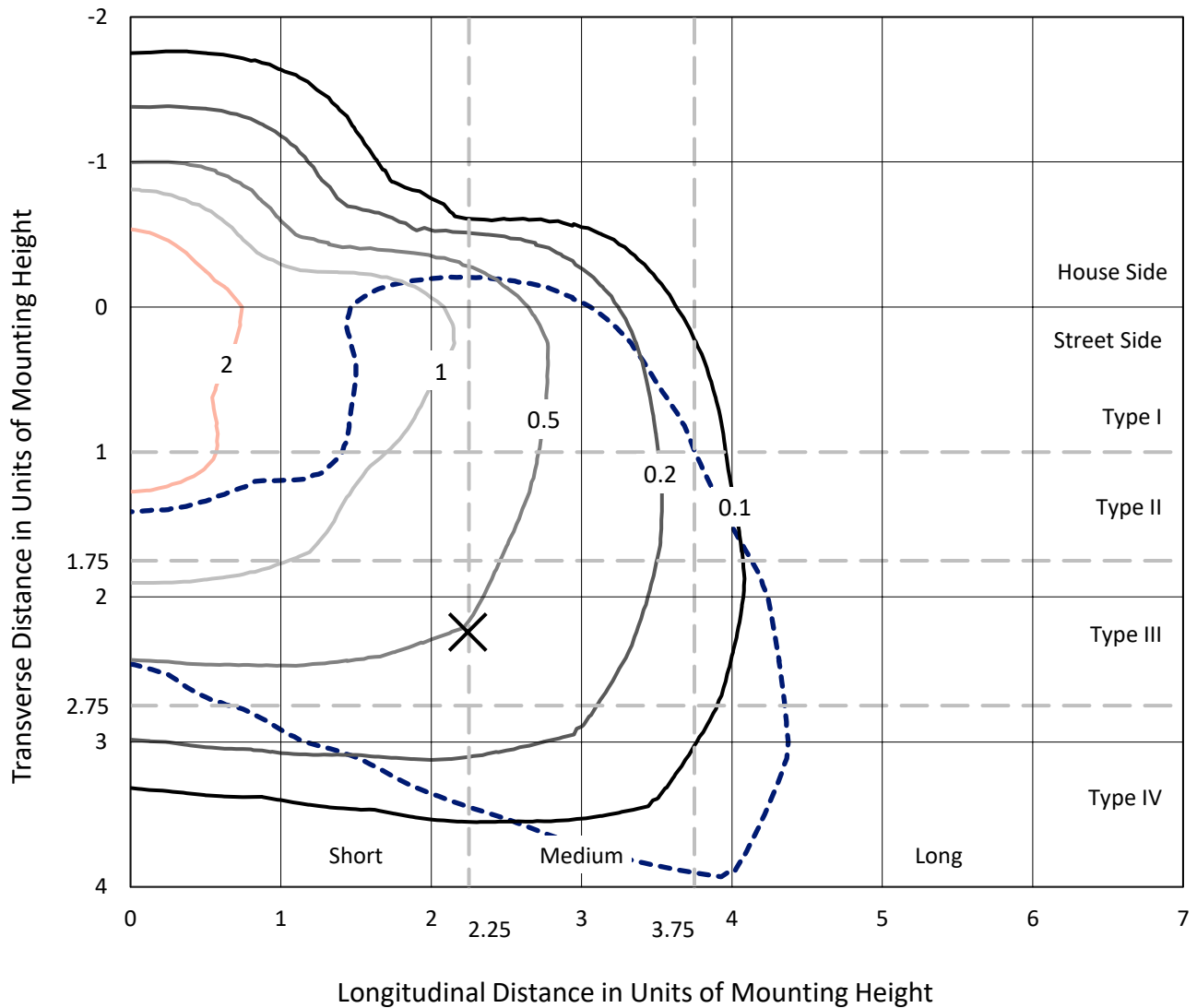
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

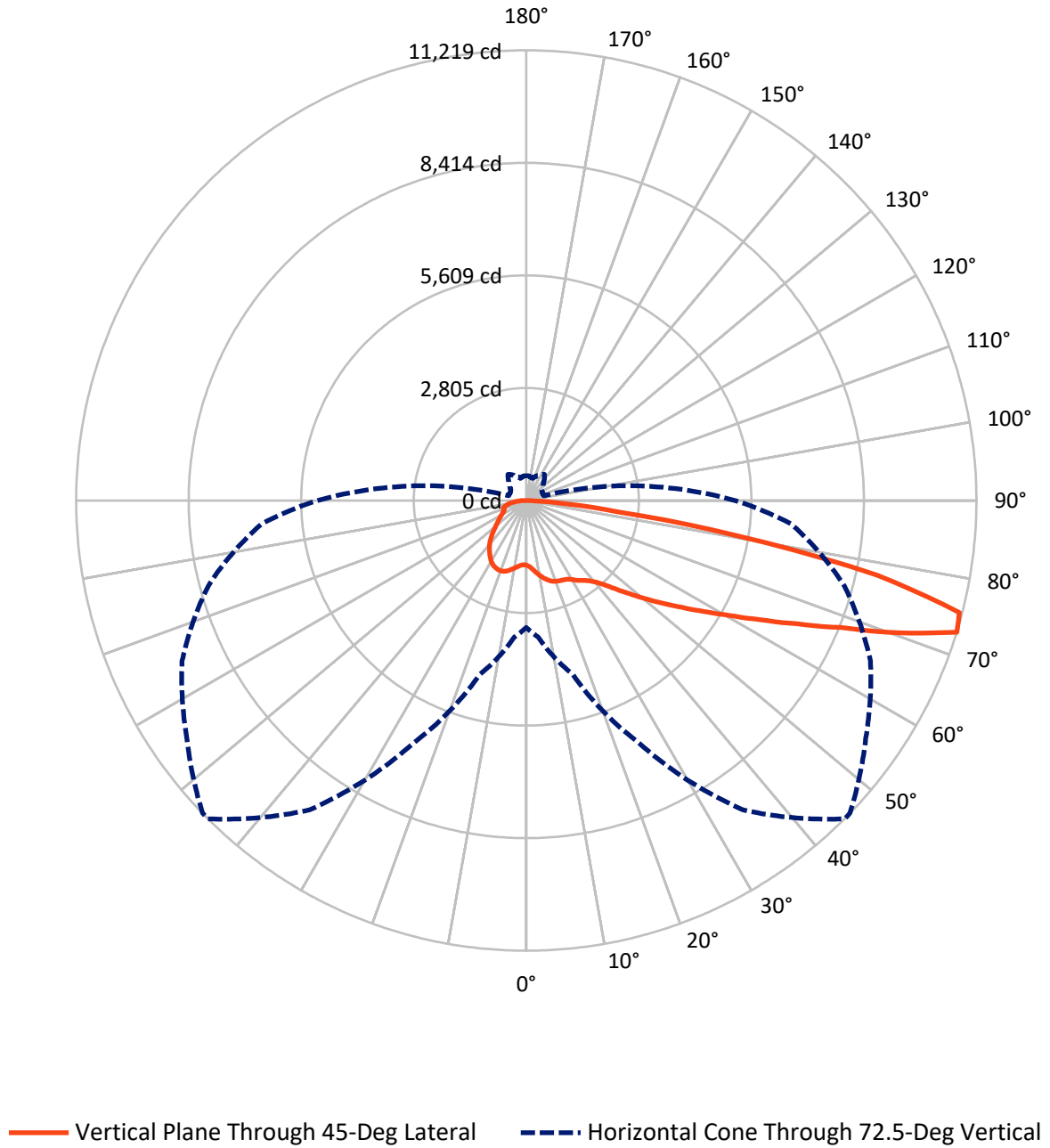
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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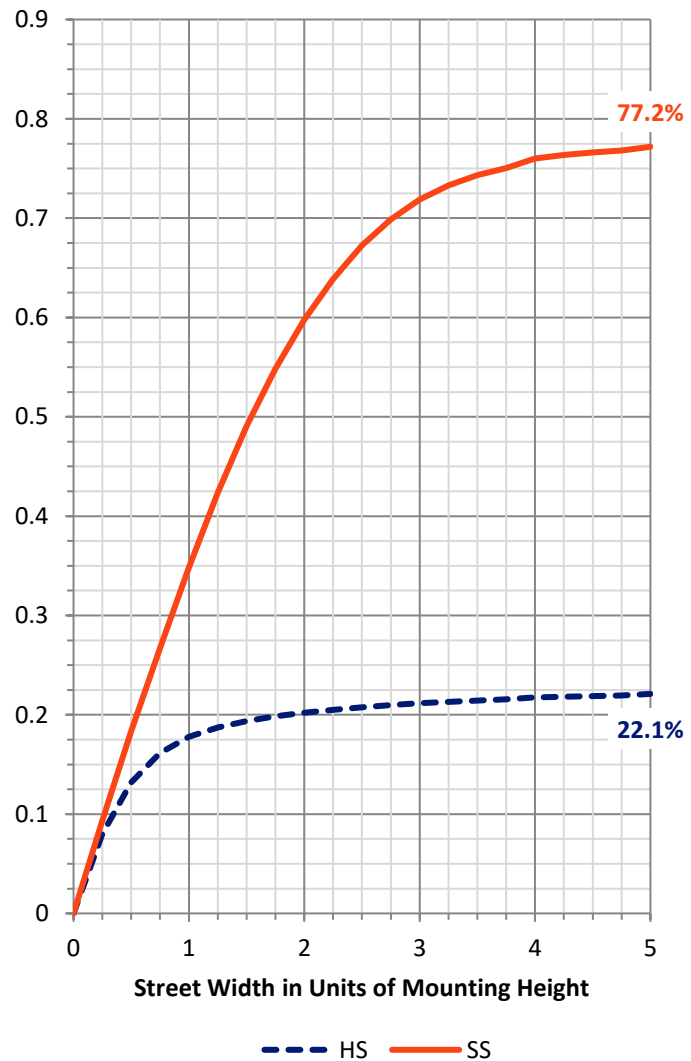
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3615.2	0.0	3615.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12376.8	0.0	12376.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	15992.0	0.0	15992.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	1.0
10°-20°	547.5	3.4
20°-30°	952.3	6.0
30°-40°	1365.2	8.5
40°-50°	1922.3	12.0
50°-60°	2944.5	18.4
60°-70°	4265.5	26.7
70°-80°	3406.3	21.3
80°-90°	424.2	2.7
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°	15992.0	100.0
0°-180°	15992.0	100.0



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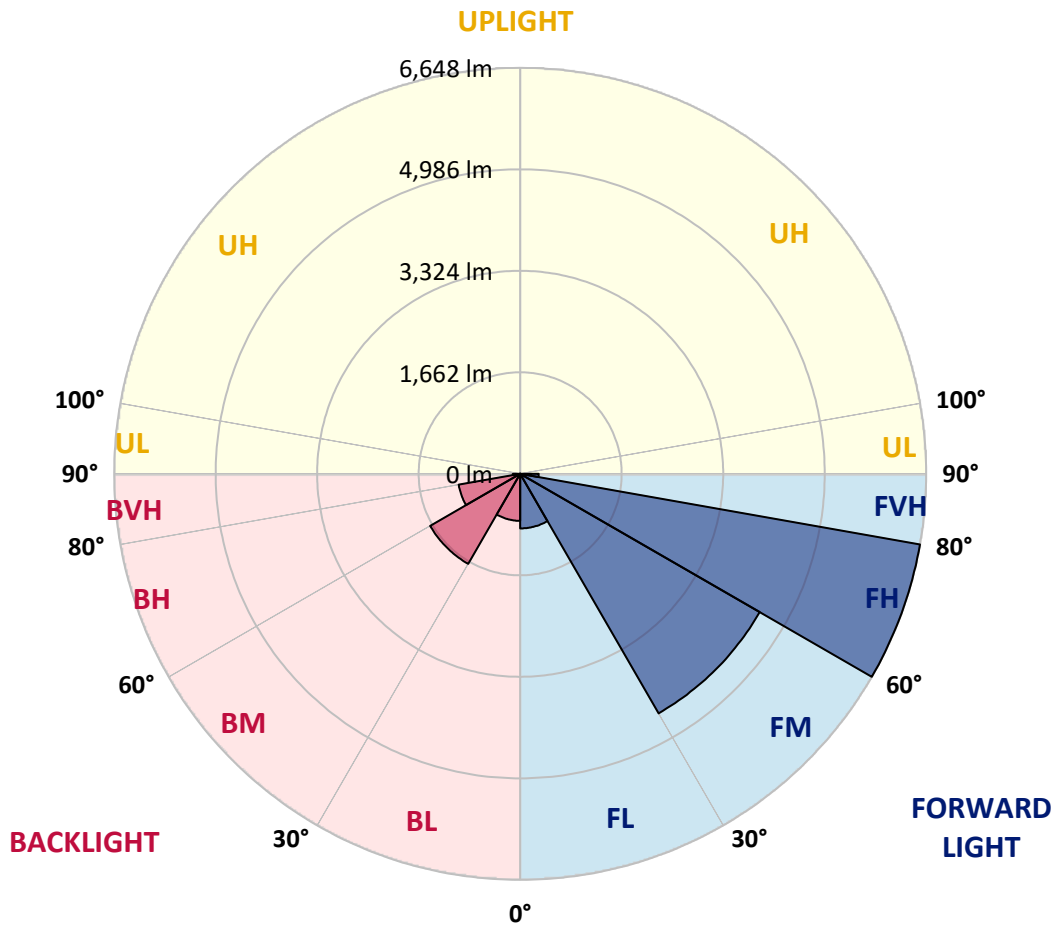
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.3	5.6			
FM (30°-60°)	4529.8	28.3			
FH (60°-80°)	6648.4	41.6			G3/7500
FVH (80°-90°)	304.3	1.9			G3/500
BL (0°-30°)	769.7	4.8	B2/1000		
BM (30°-60°)	1702.3	10.6	B2/2500		
BH (60°-80°)	1023.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	119.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1676.5	1687.5	1677.3	1668.1	1663.9	1652.9	1652.0	1645.3	1641.1	1629.3	1626.0
5°	1793.5	1807.9	1791.1	1772.5	1755.6	1728.7	1725.4	1705.9	1684.1	1658.8	1644.4
7.5°	1925.9	1938.5	1919.1	1891.3	1861.8	1817.1	1816.3	1780.9	1746.4	1703.4	1679.0
10°	2041.3	2058.1	2032.0	1994.0	1957.0	1906.5	1900.6	1860.2	1816.3	1760.7	1723.6
12.5°	2143.2	2155.0	2129.7	2083.4	2040.4	1989.8	1982.2	1937.7	1888.8	1825.6	1778.4
15°	2224.0	2239.2	2205.5	2155.8	2110.4	2060.7	2053.9	2013.4	1964.6	1898.0	1837.4
17.5°	2277.1	2289.7	2255.2	2199.6	2155.8	2114.6	2109.4	2075.8	2032.8	1965.4	1900.6
20°	2297.3	2310.9	2274.6	2218.2	2177.7	2145.7	2143.2	2118.8	2089.3	2027.8	1962.1
22.5°	2317.5	2330.2	2283.0	2224.0	2188.7	2168.5	2167.6	2151.6	2139.8	2089.3	2025.2
25°	2399.3	2402.7	2339.5	2254.4	2203.9	2186.1	2185.3	2184.5	2189.5	2149.9	2093.5
27.5°	2470.0	2469.2	2415.3	2335.3	2256.9	2219.8	2219.0	2227.4	2243.4	2210.6	2164.3
30°	2573.7	2564.4	2500.4	2417.0	2345.4	2288.1	2283.0	2275.5	2288.1	2262.0	2235.0
32.5°	2793.5	2764.1	2660.5	2512.2	2418.7	2374.8	2368.2	2320.9	2326.0	2309.9	2296.5
35°	3108.6	3069.9	2931.7	2692.5	2509.6	2447.3	2443.9	2384.1	2374.0	2359.7	2364.8
37.5°	3483.6	3435.5	3274.6	2953.6	2666.3	2531.5	2526.5	2472.6	2431.3	2416.1	2444.8
40°	3860.0	3799.5	3666.3	3272.1	2897.2	2672.3	2656.3	2574.5	2527.3	2502.0	2562.7
42.5°	4225.7	4175.1	4061.5	3629.2	3181.9	2877.8	2842.4	2702.6	2667.2	2643.6	2753.1
45°	4549.3	4503.7	4420.3	4010.9	3515.5	3157.5	3123.0	2894.6	2883.7	2883.7	3042.1
47.5°	4812.1	4801.9	4713.5	4400.1	3908.9	3476.0	3416.1	3161.7	3191.2	3236.6	3452.3
50°	5103.6	5075.7	4981.4	4783.4	4371.4	3840.7	3791.9	3489.4	3599.8	3724.4	4045.5
52.5°	5371.4	5386.6	5281.3	5182.7	4893.8	4247.6	4161.7	3876.1	4114.6	4320.9	4740.4
55°	5646.9	5647.7	5618.2	5604.8	5441.4	4697.5	4603.2	4341.1	4720.2	4976.4	5550.9
57.5°	5905.5	5907.3	5951.0	6069.8	6076.6	5216.4	5109.4	4912.3	5393.3	5654.5	6386.6
60°	6136.4	6148.2	6267.8	6545.9	6635.1	5811.2	5710.1	5587.1	6089.2	6352.0	7265.3
62.5°	6213.9	6256.8	6523.1	6918.1	7186.9	6540.7	6441.3	6368.0	6820.5	7064.8	7999.9
65°	6082.5	6181.1	6695.8	7225.6	7754.7	7407.7	7309.1	7229.0	7580.4	7810.3	8603.0
67.5°	5759.8	5887.0	6685.7	7548.3	8443.8	8450.6	8358.8	8170.9	8395.0	8483.4	8799.3
70°	4909.8	5100.2	6096.8	7668.8	9234.9	9876.9	9788.4	9304.8	9208.0	8779.9	8246.7
72.5°	3163.4	3419.5	4489.4	6677.3	9410.9	11218.8	11213.8	10328.4	9464.8	8203.8	6614.0
75°	1154.1	1310.9	2085.9	4191.2	7899.7	11150.7	11183.5	10153.1	8640.1	6336.9	4120.4
77.5°	420.4	460.0	680.7	1610.8	4858.4	8946.8	9015.0	8117.0	6149.9	3180.3	1632.6
80°	220.7	242.6	348.8	625.0	2081.7	5313.3	5420.3	4823.9	2890.4	957.9	489.4
82.5°	122.2	132.2	195.5	339.5	937.7	2272.1	2336.1	1905.6	1016.8	406.1	202.2
85°	65.7	69.9	91.8	185.3	458.3	787.7	805.3	569.5	405.2	238.4	97.7
87.5°	19.4	23.6	30.3	58.9	179.5	176.9	181.1	112.9	160.1	120.4	32.0
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°	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1620.8	1618.4	1609.0	1604.8	1599.8	1599.0	1603.2	1604.0	1604.8	1605.7	1609.0
5°	1636.0	1627.6	1619.2	1614.2	1615.8	1616.6	1625.0	1631.0	1635.2	1638.6	1640.2
7.5°	1665.5	1658.8	1644.4	1643.6	1646.2	1653.7	1664.7	1678.1	1685.7	1691.7	1693.3
10°	1709.3	1696.7	1679.9	1682.3	1687.5	1698.4	1721.1	1732.0	1744.8	1755.6	1753.2
12.5°	1754.0	1743.0	1723.6	1725.4	1733.8	1753.2	1775.0	1788.5	1796.9	1805.3	1808.7
15°	1812.1	1792.7	1771.7	1771.7	1786.8	1807.9	1818.0	1828.9	1834.0	1843.3	1846.6
17.5°	1872.0	1846.6	1818.9	1817.1	1835.7	1845.8	1851.7	1853.4	1855.0	1865.2	1868.6
20°	1931.7	1903.9	1864.4	1861.0	1865.2	1863.4	1862.6	1861.0	1863.4	1876.2	1881.2
22.5°	1990.7	1958.7	1903.9	1888.8	1877.0	1861.0	1860.2	1859.2	1861.0	1873.6	1882.0
25°	2059.7	2021.0	1947.7	1902.2	1862.6	1840.8	1843.3	1844.1	1845.8	1855.9	1869.4
27.5°	2134.8	2091.8	1988.2	1898.0	1826.4	1811.3	1807.1	1809.5	1815.5	1831.5	1847.5
30°	2209.7	2159.2	2025.2	1881.2	1780.9	1759.8	1746.4	1752.3	1770.8	1786.8	1804.5
32.5°	2278.0	2227.4	2054.7	1844.1	1722.8	1689.9	1672.3	1679.9	1698.4	1704.3	1725.4
35°	2358.0	2300.7	2067.3	1785.1	1659.6	1609.0	1585.5	1574.5	1583.8	1577.9	1596.4
37.5°	2447.3	2387.5	2065.7	1707.6	1585.5	1527.4	1494.6	1453.2	1433.9	1413.6	1426.3
40°	2579.6	2493.6	2045.5	1614.2	1493.6	1440.5	1381.6	1311.7	1267.9	1228.3	1230.8
42.5°	2759.8	2641.1	2008.4	1511.4	1390.0	1340.3	1260.3	1178.5	1109.5	1043.8	1037.9
45°	3028.6	2834.0	1962.1	1401.8	1278.0	1229.2	1142.4	1050.5	972.2	888.0	877.8
47.5°	3416.1	3093.4	1918.3	1277.1	1160.1	1115.4	1037.1	951.9	859.3	777.6	768.3
50°	3948.5	3465.8	1877.8	1155.8	1043.8	1010.1	947.7	861.0	767.5	701.7	697.5
52.5°	4625.9	3972.2	1861.0	1038.7	935.1	922.5	872.8	791.9	703.5	647.8	643.6
55°	5403.5	4577.9	1861.0	926.7	839.9	844.1	809.5	734.6	657.9	608.2	603.2
57.5°	6197.0	5191.1	1827.3	823.1	759.0	776.7	754.8	689.1	620.0	568.7	560.3
60°	6928.3	5705.0	1690.8	728.7	687.5	715.2	700.9	644.5	560.3	517.2	510.6
62.5°	7490.2	5994.8	1427.9	653.7	628.4	660.5	652.9	585.5	549.3	531.6	525.7
65°	7771.6	5947.7	1091.8	587.2	578.7	628.4	612.4	610.0	581.3	561.1	554.3
67.5°	7598.8	5541.7	791.9	538.3	550.1	599.0	660.5	670.6	617.6	577.9	571.1
70°	6841.5	4807.0	589.7	492.0	513.9	599.8	753.2	701.7	605.7	559.3	551.8
72.5°	5204.6	3584.6	457.5	443.1	466.7	604.0	794.5	687.5	572.1	618.4	613.3
75°	2976.4	1968.0	367.3	383.3	407.7	564.5	773.4	650.4	545.9	567.8	567.8
77.5°	1134.8	756.6	303.3	324.3	327.7	492.8	739.6	647.8	519.8	507.2	462.5
80°	393.4	295.7	251.0	257.8	253.6	438.1	709.3	563.6	425.5	380.8	368.2
82.5°	160.9	147.4	198.8	190.3	180.3	340.3	572.9	460.8	347.9	307.5	304.1
85°	69.9	93.5	131.4	115.4	104.4	235.9	459.1	390.0	294.0	253.6	252.8
87.5°	14.3	35.4	55.6	52.3	53.9	157.5	326.1	277.2	208.1	155.9	122.2
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)