

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: LUMARK

Report Number: P963672

Luminaire Tested: **NAV-SB3A-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-830-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

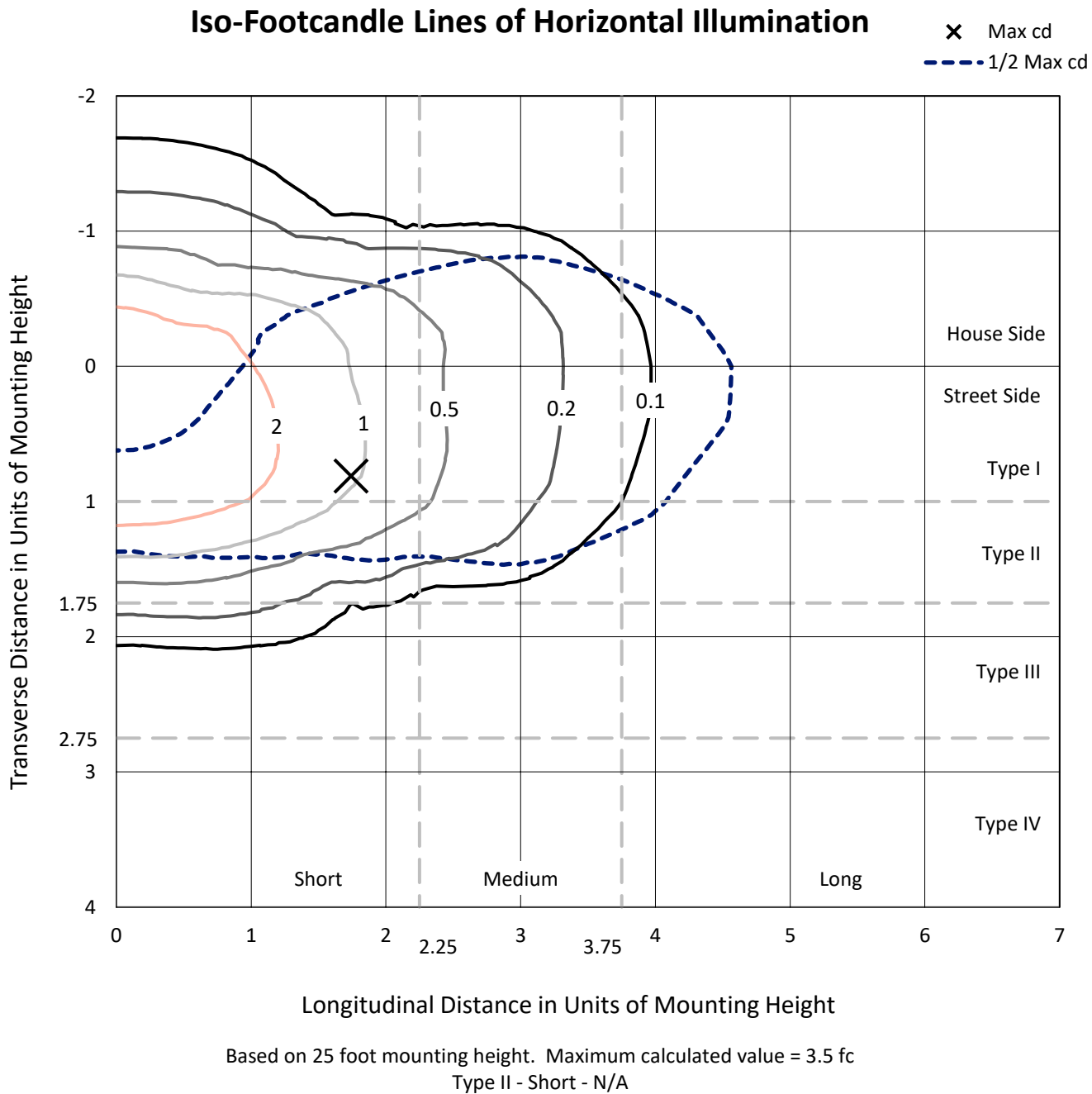
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12562.4 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 84.7
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

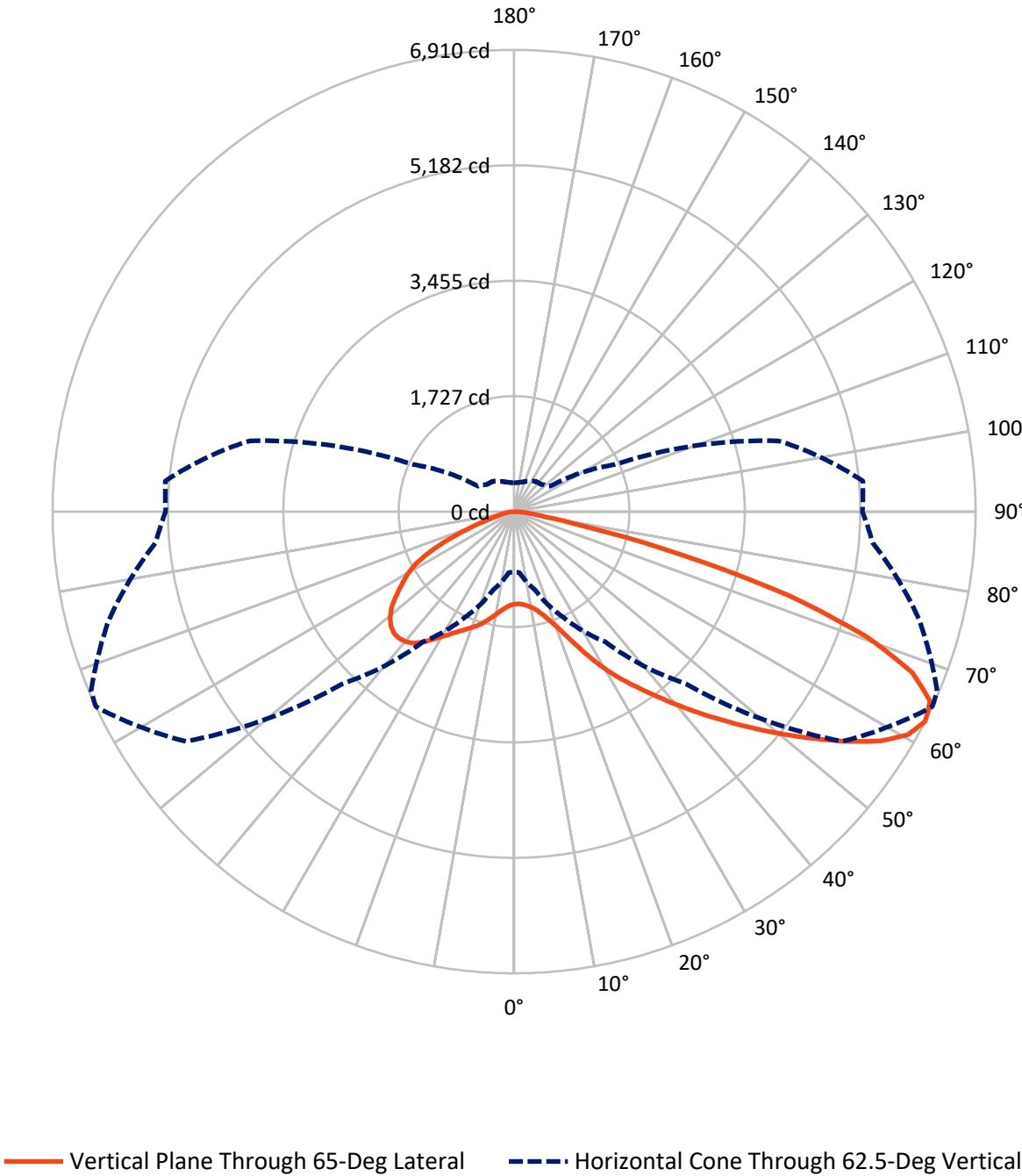


REPORT NUMBER: P963672
CATALOG NUMBER: NAV-SB3A-830-U-T2U



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Luminous Intensity Polar Plot



REPORT NUMBER: P963672

CATALOG NUMBER: NAV-SB3A-830-U-T2U

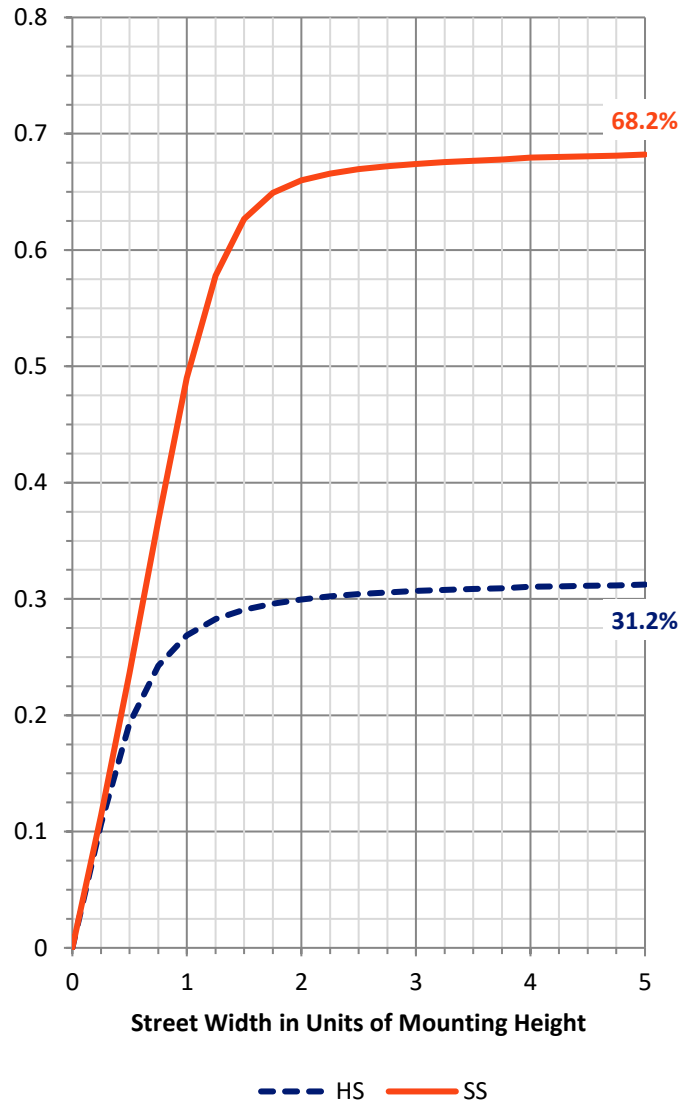
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3964.1	0.0	3964.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8598.3	0.0	8598.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	12562.4	0.0	12562.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	1.1
10°-20°	468.0	3.7
20°-30°	949.0	7.6
30°-40°	1642.2	13.1
40°-50°	2485.1	19.8
50°-60°	2913.6	23.2
60°-70°	2442.7	19.4
70°-80°	1348.6	10.7
80°-90°	175.2	1.4
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°	12562.4	100.0
0°-180°	12562.4	100.0

Coefficient of Utilization



REPORT NUMBER: P963672

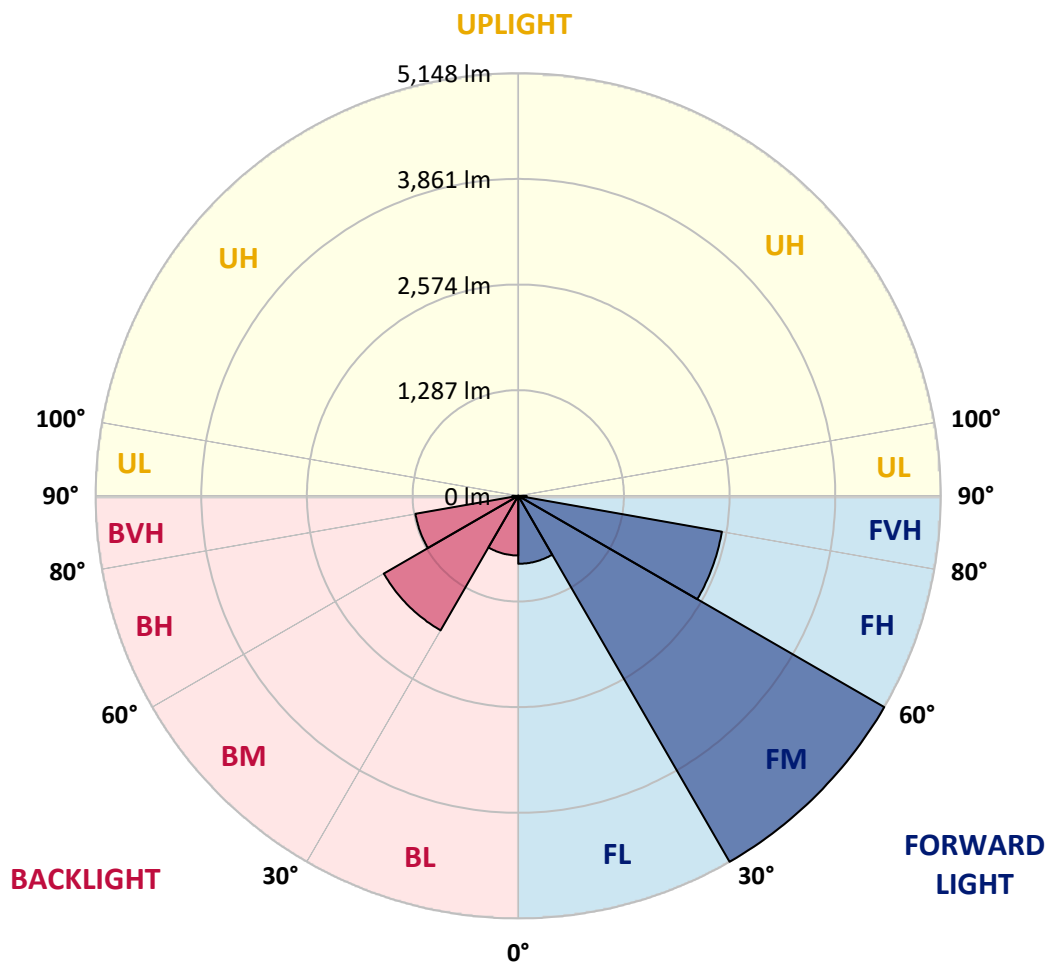
CATALOG NUMBER: NAV-SB3A-830-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.0	6.6			
FM	(30°-60°)	5148.5	41.0			
FH	(60°-80°)	2519.6	20.1			G2/5000
FVH	(80°-90°)	102.1	0.8			G2/225
BL	(0°-30°)	727.0	5.8	B2/1000		
BM	(30°-60°)	1892.4	15.1	B2/2500		
BH	(60°-80°)	1271.7	10.1	B3/2500		G3/2500
BVH	(80°-90°)	73.1	0.6			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 II Short



REPORT NUMBER: P963672

CATALOG NUMBER: NAV-SB3A-830-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4
2.5°	1375.2	1371.2	1374.5	1374.5	1375.9	1375.2	1379.8	1381.1	1383.0	1386.9	1386.9
5°	1361.5	1360.9	1366.7	1372.0	1377.2	1381.7	1387.5	1396.0	1397.4	1401.9	1407.7
7.5°	1357.0	1353.0	1362.1	1368.7	1381.1	1392.2	1407.7	1422.1	1428.0	1430.0	1441.0
10°	1392.2	1385.6	1394.1	1398.0	1408.5	1419.5	1437.8	1460.6	1467.1	1474.9	1487.3
12.5°	1452.1	1444.9	1457.3	1463.2	1472.9	1482.8	1495.2	1517.3	1520.6	1534.8	1546.6
15°	1534.2	1525.7	1533.6	1540.8	1557.1	1566.2	1578.5	1600.0	1600.0	1611.1	1619.6
17.5°	1645.6	1634.6	1640.4	1643.1	1653.5	1667.2	1688.1	1706.9	1716.7	1712.8	1701.1
20°	1811.9	1798.2	1798.2	1785.1	1781.2	1792.3	1819.7	1845.7	1856.2	1836.0	1807.3
22.5°	2061.5	2041.9	2030.8	1986.6	1968.9	1970.3	1997.6	2029.6	2038.0	2002.1	1937.7
25°	2378.9	2348.3	2333.3	2268.1	2228.4	2193.8	2215.3	2256.3	2268.1	2223.7	2119.5
27.5°	2696.3	2698.2	2684.0	2605.8	2539.8	2476.7	2465.5	2508.6	2521.0	2470.8	2341.7
30°	3141.4	3095.2	3067.8	2973.9	2880.0	2791.5	2745.9	2763.4	2766.7	2706.7	2556.9
32.5°	3525.3	3513.6	3455.0	3372.9	3252.2	3113.4	3037.2	3009.1	3004.0	2918.6	2740.6
35°	3962.6	3956.1	3894.2	3796.5	3666.1	3473.2	3335.7	3255.5	3248.9	3129.0	2922.5
37.5°	4407.2	4407.2	4346.5	4239.6	4104.7	3863.6	3654.3	3527.3	3506.4	3350.0	3107.6
40°	4761.7	4740.2	4751.3	4706.3	4551.8	4295.7	4008.3	3823.9	3795.8	3608.1	3304.4
42.5°	4963.0	4955.9	5022.4	5072.6	5009.4	4804.7	4398.1	4145.1	4106.0	3892.2	3531.2
45°	5008.0	5000.3	5118.8	5302.6	5391.3	5307.2	4821.7	4483.5	4435.8	4189.5	3774.3
47.5°	4904.4	4888.8	5062.8	5352.9	5637.0	5785.0	5280.5	4850.3	4781.2	4478.8	4023.9
50°	4592.9	4578.0	4841.2	5226.4	5719.8	6109.5	5778.4	5239.4	5133.8	4789.1	4276.2
52.5°	3915.7	3922.9	4335.4	4864.6	5611.0	6311.5	6207.3	5649.4	5522.3	5106.4	4512.8
55°	3050.2	3065.9	3572.9	4155.6	5175.5	6280.9	6499.9	6071.7	5945.3	5405.0	4757.1
57.5°	2184.1	2253.2	2728.2	3305.0	4339.3	5795.3	6563.8	6473.2	6350.7	5730.9	4996.4
60°	1415.6	1428.0	1916.9	2498.1	3304.4	4932.5	6434.1	6777.6	6681.8	6063.3	5196.4
62.5°	907.2	915.7	1213.6	1747.3	2378.2	3649.2	5997.4	6909.8	6880.5	6282.9	5388.7
65°	666.8	660.2	815.4	1154.9	1602.0	2250.5	5149.5	6846.0	6904.0	6420.4	5547.7
67.5°	556.6	547.5	623.7	799.7	1180.3	1278.1	3810.1	6430.8	6643.3	6404.8	5664.4
70°	507.1	499.3	545.5	593.8	921.0	855.8	1920.7	5590.8	5917.9	6226.9	5645.5
72.5°	429.5	415.8	479.1	527.3	716.3	656.3	793.9	4294.4	4693.3	5656.6	5379.6
75°	333.0	323.9	378.0	464.0	538.3	512.3	501.8	2607.7	3043.0	4374.6	4706.3
77.5°	263.9	251.5	301.1	361.7	484.2	386.5	365.6	1123.0	1554.4	2792.7	3521.4
80°	198.7	187.7	228.8	286.1	372.2	291.3	236.6	458.2	585.9	1414.9	1770.8
82.5°	141.4	131.6	159.7	209.8	250.3	261.4	145.3	256.8	288.7	545.5	395.6
85°	90.6	84.8	106.9	131.6	159.0	168.2	88.7	134.3	147.3	224.9	164.9
87.5°	49.5	40.4	57.4	61.3	73.7	67.1	42.3	48.9	52.8	81.5	69.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P963672

CATALOG NUMBER: NAV-SB3A-830-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4	1384.4
2.5°	1389.5	1391.5	1398.0	1399.9	1404.6	1410.4	1414.3	1418.2	1418.2	1422.1	1422.1
5°	1408.5	1413.0	1426.7	1433.9	1445.6	1457.3	1464.5	1472.9	1478.2	1480.8	1482.0
7.5°	1444.9	1452.1	1471.7	1484.0	1504.3	1520.6	1531.7	1543.3	1546.0	1553.1	1550.5
10°	1494.4	1503.0	1525.1	1548.6	1572.7	1592.8	1603.3	1611.8	1615.1	1616.3	1613.0
12.5°	1551.1	1563.5	1592.2	1620.9	1646.4	1663.9	1666.5	1664.6	1655.5	1647.6	1647.6
15°	1620.9	1632.0	1663.9	1695.2	1720.0	1723.2	1706.9	1696.5	1685.4	1683.5	1683.5
17.5°	1704.4	1710.2	1739.5	1770.2	1772.1	1761.1	1737.0	1727.1	1716.7	1709.6	1710.2
20°	1801.4	1799.5	1820.3	1833.4	1819.7	1785.8	1749.3	1733.0	1722.6	1714.1	1714.7
22.5°	1917.5	1902.5	1899.8	1896.6	1860.1	1789.0	1739.5	1718.7	1702.4	1690.6	1694.5
25°	2086.3	2028.9	1989.1	1967.0	1884.9	1771.5	1708.3	1661.9	1631.3	1611.1	1619.0
27.5°	2297.4	2201.0	2100.6	2046.5	1884.9	1735.6	1632.6	1557.7	1507.5	1486.7	1497.1
30°	2498.8	2397.8	2249.9	2142.4	1880.3	1677.0	1510.7	1406.5	1347.9	1327.0	1339.4
32.5°	2670.8	2560.8	2408.2	2247.2	1869.2	1581.8	1359.6	1244.1	1187.5	1162.8	1175.1
35°	2830.5	2713.3	2567.2	2362.6	1839.9	1442.3	1193.4	1105.4	1042.1	1002.3	1015.5
37.5°	2994.1	2854.6	2717.8	2466.9	1787.1	1279.4	1065.6	990.7	916.4	862.9	877.3
40°	3172.1	3005.2	2878.8	2528.8	1700.4	1124.3	966.6	898.1	819.3	762.6	773.7
42.5°	3379.9	3185.8	3058.0	2560.8	1581.8	1014.1	902.0	834.9	760.6	714.3	723.4
45°	3597.0	3384.6	3221.6	2560.0	1449.5	962.7	881.2	814.7	732.6	684.3	692.2
47.5°	3824.5	3592.4	3363.0	2518.3	1334.8	969.9	869.4	771.0	680.4	633.6	640.0
50°	4052.6	3820.0	3499.9	2440.1	1285.9	954.2	825.7	709.7	602.9	560.5	563.1
52.5°	4278.8	4061.8	3617.8	2328.7	1236.4	896.2	769.7	630.3	570.9	541.6	541.6
55°	4506.2	4300.9	3746.3	2166.4	1112.5	828.4	675.9	600.2	545.5	518.8	516.2
57.5°	4734.4	4577.2	3868.1	2004.2	956.7	745.0	624.4	563.8	520.1	497.3	493.3
60°	4971.6	4893.3	3993.9	1854.8	803.0	638.1	586.6	534.4	490.2	464.7	462.8
62.5°	5216.0	5241.4	4092.3	1662.7	661.5	572.9	552.7	499.3	456.2	432.1	431.4
65°	5462.3	5577.0	4156.9	1396.0	536.4	511.0	516.2	460.8	417.1	396.3	395.6
67.5°	5648.1	5818.8	4138.6	1056.5	439.9	452.3	470.6	420.4	379.4	363.1	363.7
70°	5669.0	5790.1	3958.8	723.4	368.3	394.9	419.7	380.6	338.2	326.6	327.2
72.5°	5391.3	5399.1	3457.5	472.5	311.5	346.8	366.3	340.2	299.2	287.4	286.8
75°	4663.2	4465.1	2538.6	311.5	260.7	297.9	316.1	297.9	258.1	260.7	251.5
77.5°	3533.2	3162.3	1541.4	221.6	217.7	250.3	275.0	262.0	228.1	256.1	225.5
80°	1820.3	1710.8	687.6	165.5	172.1	200.1	226.1	209.2	180.5	172.1	157.0
82.5°	417.1	484.9	271.1	118.6	124.4	144.0	172.7	157.0	129.7	109.5	108.2
85°	146.0	159.7	119.9	74.3	73.0	89.9	117.4	105.0	87.9	70.4	74.3
87.5°	46.2	60.6	45.0	29.9	31.3	40.4	54.1	49.5	41.1	26.8	28.0
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)