

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: P963666

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-830-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

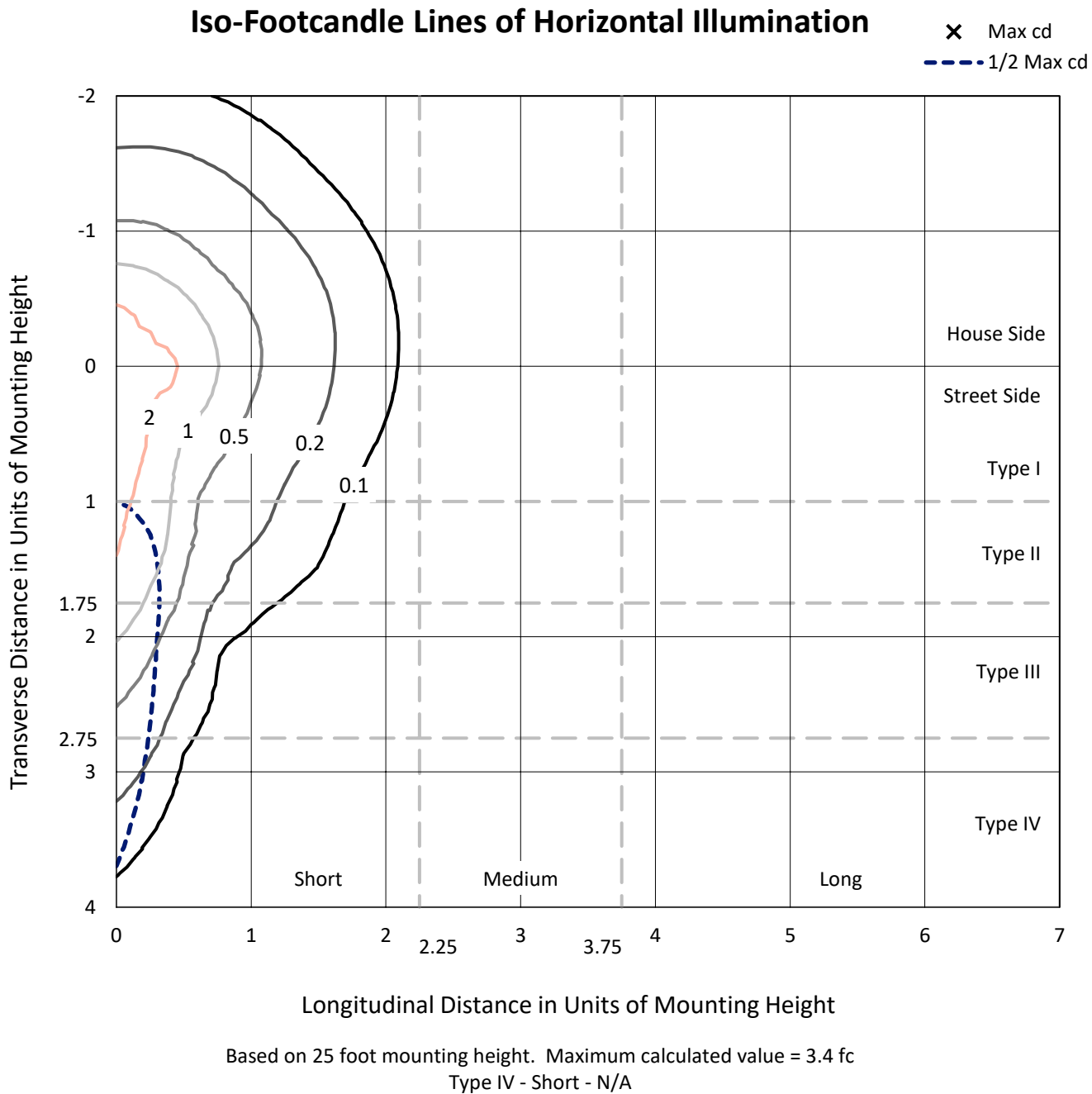
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12351.2 lumens
Efficiency: N/A
Efficacy: 145.8 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): 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

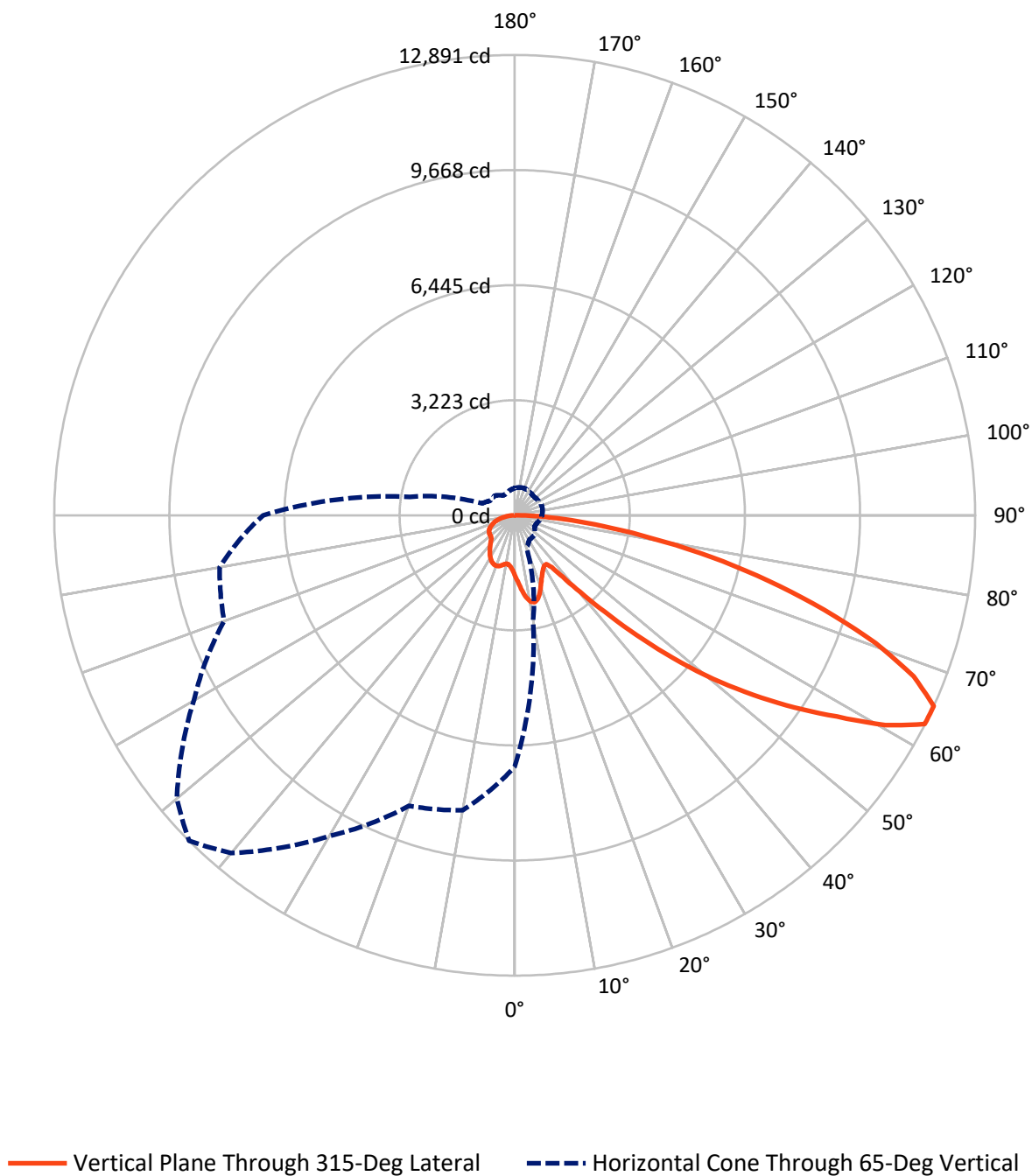


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Luminous Intensity Polar Plot



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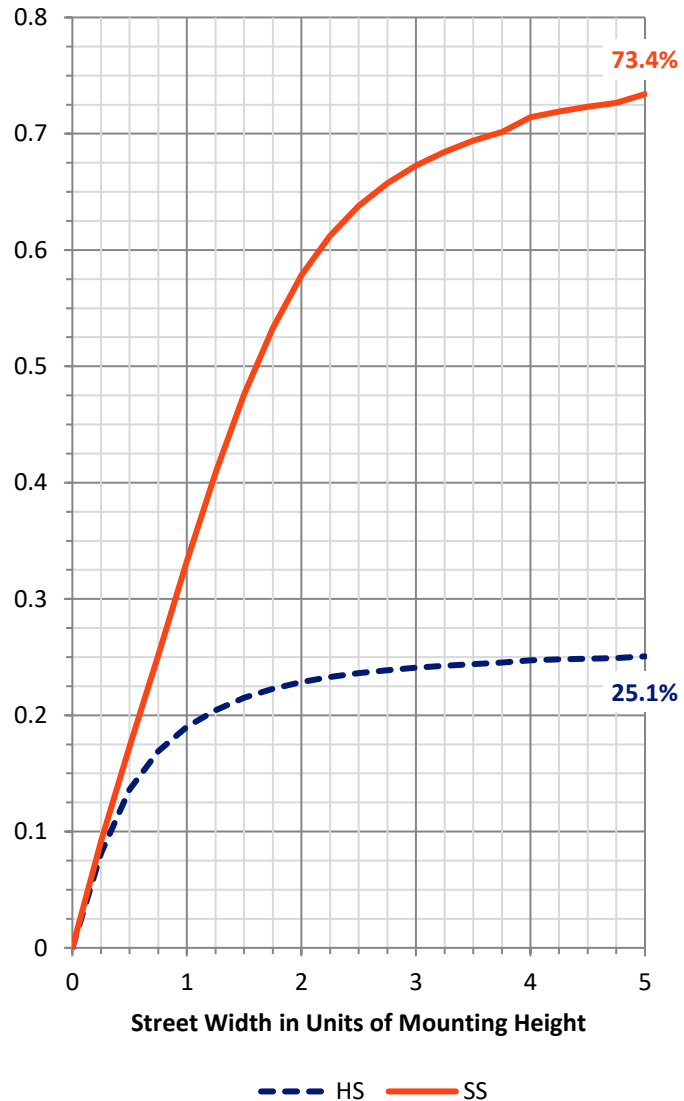
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3139.1	0.0	3139.1
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	9212.2	0.0	9212.2
	% Fixture	74.6	0.0	74.6
Total	Lumens	12351.2	0.0	12351.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	1.4
10°-20°	528.9	4.3
20°-30°	817.0	6.6
30°-40°	1035.3	8.4
40°-50°	1561.5	12.6
50°-60°	2522.8	20.4
60°-70°	3145.1	25.5
70°-80°	2062.4	16.7
80°-90°	509.9	4.1
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°	12351.2	100.0
0°-180°	12351.2	100.0

Coefficient of Utilization



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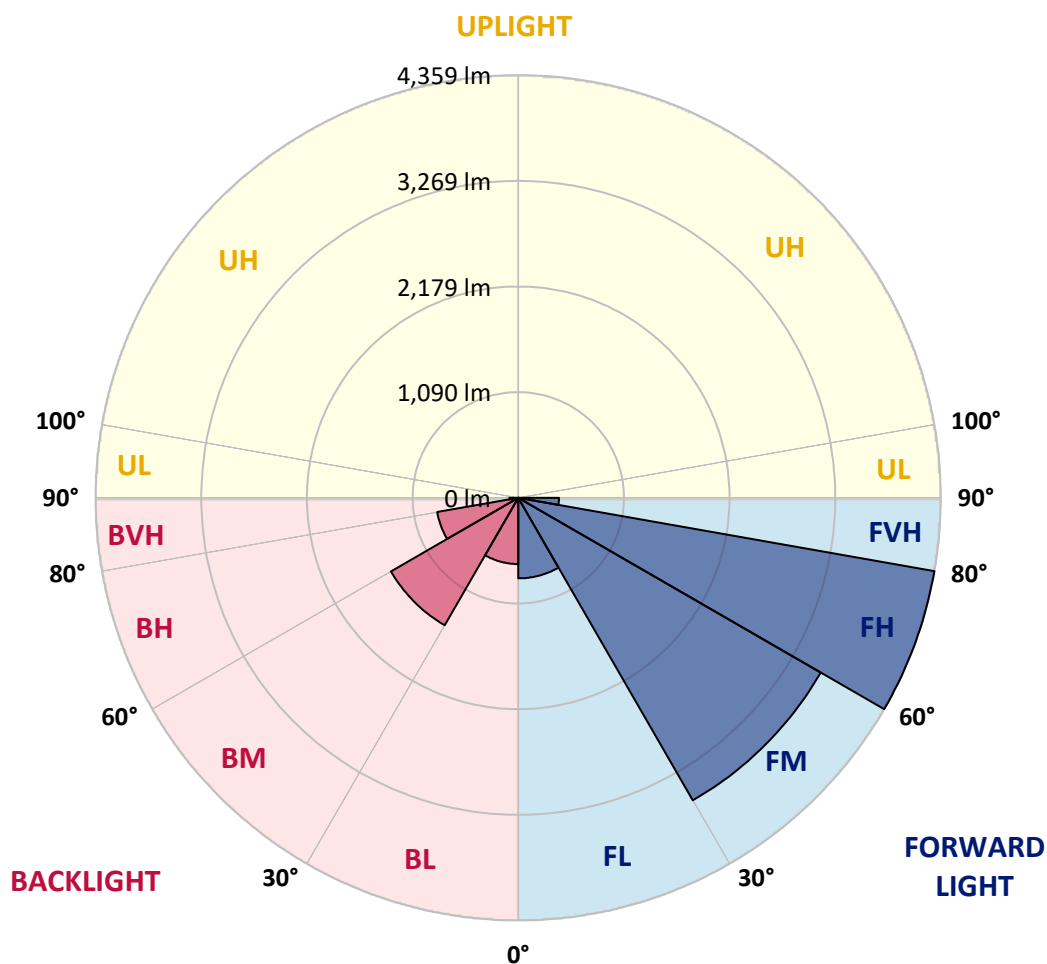
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	830.8	6.7			
FM	(30°-60°)	3602.6	29.2			
FH	(60°-80°)	4358.8	35.3			G2/5000
FVH	(80°-90°)	420.0	3.4			G3/500
BL	(0°-30°)	683.6	5.5	B2/1000		
BM	(30°-60°)	1517.0	12.3	B2/2500		
BH	(60°-80°)	848.7	6.9	B2/1000		G2/1000
BVH	(80°-90°)	89.8	0.7			G1/100
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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1826.4	1812.4	1798.5	1783.5	1768.6	1753.7	1738.7	1724.4	1710.0	1696.2	1680.7
5°	1964.0	1933.0	1902.1	1871.1	1840.4	1809.2	1778.3	1749.3	1720.3	1692.9	1665.8
7.5°	2102.2	2051.0	2000.0	1952.8	1905.7	1859.7	1813.7	1773.2	1732.9	1695.5	1660.5
10°	2208.1	2143.5	2078.9	2016.5	1954.2	1898.4	1842.5	1794.8	1746.8	1700.7	1663.1
12.5°	2272.9	2201.9	2131.0	2060.4	1989.7	1923.9	1858.1	1803.9	1749.8	1701.3	1666.3
15°	2312.3	2238.4	2164.4	2087.7	2011.2	1935.3	1859.6	1796.8	1734.1	1680.5	1652.5
17.5°	2334.5	2259.5	2184.5	2100.8	2017.2	1929.3	1841.3	1765.9	1690.4	1627.4	1610.1
20°	2358.9	2280.9	2202.9	2111.1	2019.1	1912.5	1805.9	1712.5	1619.0	1545.6	1541.0
22.5°	2387.3	2307.7	2227.9	2124.9	2021.8	1892.0	1762.4	1649.8	1537.3	1453.7	1462.6
25°	2423.8	2345.7	2267.7	2149.9	2032.1	1871.9	1711.7	1579.9	1448.1	1362.4	1386.5
27.5°	2473.3	2398.9	2324.4	2189.0	2053.6	1858.4	1663.2	1516.0	1368.8	1290.8	1320.1
30°	2540.2	2468.2	2396.2	2239.6	2083.0	1852.1	1620.9	1462.6	1304.1	1238.6	1261.6
32.5°	2619.0	2547.7	2476.6	2292.5	2108.4	1844.3	1579.9	1416.4	1253.0	1200.2	1210.4
35°	2714.8	2646.7	2578.4	2352.8	2127.1	1829.5	1532.1	1371.1	1210.2	1166.2	1162.0
37.5°	2876.0	2789.1	2702.2	2420.2	2138.1	1804.3	1470.5	1317.8	1165.3	1126.9	1111.3
40°	3119.8	2993.1	2866.4	2505.8	2145.1	1769.6	1394.0	1254.3	1114.5	1079.6	1055.8
42.5°	3443.1	3260.2	3077.4	2617.8	2158.3	1733.7	1309.2	1184.1	1058.9	1026.8	996.8
45°	3842.2	3595.6	3348.9	2765.2	2181.6	1700.4	1219.2	1109.5	999.8	967.2	938.2
47.5°	4341.5	3994.3	3647.1	2922.4	2197.6	1672.9	1148.2	1050.5	952.8	910.8	885.8
50°	4995.8	4472.4	3948.9	3068.0	2187.2	1643.0	1098.7	1011.4	924.0	868.8	839.8
52.5°	5747.0	4974.6	4202.3	3162.7	2123.0	1592.3	1061.7	985.5	909.5	845.9	805.4
55°	6546.6	5419.9	4293.2	3141.8	1990.3	1508.4	1026.3	966.9	907.3	848.2	787.2
57.5°	7273.9	5735.5	4197.0	2995.0	1793.2	1390.0	986.7	944.6	902.6	850.5	776.2
60°	7713.5	5814.3	3915.1	2722.0	1528.8	1236.4	943.8	910.8	877.7	843.4	765.9
62.5°	7490.3	5482.3	3474.2	2352.6	1231.0	1052.4	873.8	851.9	829.9	825.7	753.9
65°	7043.6	5012.5	2981.3	1975.8	970.3	886.9	803.6	793.2	782.9	783.4	728.7
67.5°	6444.9	4453.3	2461.7	1606.7	751.5	728.0	704.2	710.0	715.8	714.3	683.6
70°	5725.8	3843.2	1960.7	1265.1	569.3	576.0	582.8	609.7	636.4	636.4	626.3
72.5°	4868.8	3181.9	1495.1	967.1	439.1	459.5	480.0	518.0	556.1	562.4	562.6
75°	3784.6	2423.7	1062.8	701.9	341.0	359.5	378.0	420.7	463.2	492.7	490.3
77.5°	2704.1	1696.4	688.7	475.6	262.5	275.1	287.7	329.1	370.5	419.0	417.8
80°	1769.8	1093.0	416.2	306.5	196.8	202.0	207.3	242.3	277.3	335.3	335.1
82.5°	1028.8	632.5	236.5	188.5	140.6	141.6	142.6	168.4	194.2	243.7	246.5
85°	452.6	284.5	116.5	100.8	85.1	84.6	84.0	103.0	121.9	158.7	162.3
87.5°	140.1	93.2	46.2	41.8	37.3	36.8	36.4	44.1	51.8	67.1	71.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1668.2	1655.7	1644.4	1633.2	1623.4	1613.6	1603.6	1593.8	1586.2	1578.5	1572.2
5°	1642.3	1618.6	1598.8	1579.0	1561.6	1544.1	1528.3	1512.3	1500.2	1487.9	1479.4
7.5°	1629.0	1597.7	1571.6	1545.6	1523.6	1501.6	1482.1	1462.8	1448.2	1433.8	1423.6
10°	1630.0	1596.8	1570.8	1544.7	1521.1	1497.3	1475.5	1453.7	1436.3	1418.9	1407.6
12.5°	1639.2	1612.2	1594.9	1577.7	1559.0	1540.6	1517.9	1495.4	1473.2	1451.1	1436.4
15°	1639.5	1626.6	1628.9	1631.3	1626.5	1621.7	1602.0	1582.4	1550.8	1519.4	1497.0
17.5°	1614.9	1619.5	1648.0	1676.4	1691.5	1706.5	1690.7	1675.0	1633.1	1591.4	1558.5
20°	1563.1	1585.4	1634.7	1684.1	1715.6	1747.3	1739.9	1732.7	1684.9	1637.1	1596.8
22.5°	1495.4	1528.2	1584.4	1640.9	1682.0	1723.1	1727.6	1731.9	1686.3	1640.7	1599.3
25°	1424.3	1462.2	1512.8	1563.5	1603.9	1644.4	1659.6	1674.6	1637.2	1599.8	1563.0
27.5°	1356.6	1393.1	1434.7	1476.3	1508.8	1541.2	1558.0	1574.9	1548.3	1521.6	1493.0
30°	1290.6	1319.6	1354.1	1388.7	1415.6	1442.6	1456.3	1470.0	1449.7	1429.4	1408.9
32.5°	1227.5	1244.7	1272.2	1299.9	1325.6	1351.6	1366.7	1382.0	1363.4	1344.6	1328.3
35°	1166.8	1171.5	1192.5	1213.5	1239.0	1264.6	1282.9	1301.1	1287.9	1274.7	1259.5
37.5°	1106.1	1100.8	1116.0	1131.1	1156.5	1182.1	1204.7	1227.2	1221.1	1214.9	1201.1
40°	1044.0	1032.2	1043.0	1054.0	1078.6	1103.2	1129.1	1155.2	1156.7	1158.1	1146.4
42.5°	981.1	965.6	974.4	983.3	1006.7	1030.0	1058.1	1086.1	1093.6	1101.1	1091.1
45°	922.9	907.7	915.1	922.7	944.8	967.0	996.1	1025.2	1036.0	1046.6	1037.7
47.5°	873.1	860.3	867.4	874.3	896.0	917.7	946.3	975.0	987.4	999.8	993.5
50°	828.4	817.1	828.1	839.1	859.6	880.0	905.7	931.3	947.2	963.1	962.8
52.5°	794.2	783.1	799.5	816.0	834.8	853.4	877.4	901.4	920.1	939.0	942.4
55°	769.5	751.7	775.2	798.5	818.7	838.9	859.9	880.8	900.8	920.8	925.5
57.5°	750.4	724.6	749.8	774.9	798.6	822.4	843.1	863.9	884.0	904.0	908.9
60°	732.5	698.9	721.1	743.1	770.4	797.6	818.7	839.8	860.0	880.2	885.4
62.5°	712.1	670.3	684.3	698.3	730.1	761.9	784.3	806.9	825.3	843.9	848.9
65°	684.2	639.7	645.0	650.5	684.5	718.5	740.0	761.6	777.9	794.2	799.3
67.5°	646.5	609.5	607.8	606.1	637.6	669.0	689.4	709.7	723.9	737.9	742.9
70°	599.9	573.7	567.7	561.9	589.6	617.2	634.8	652.4	665.1	677.8	682.6
72.5°	544.5	526.4	517.8	509.3	531.1	552.8	568.7	584.6	597.1	609.5	615.2
75°	476.3	462.4	454.2	445.9	462.1	478.3	492.6	507.1	518.3	529.7	535.8
77.5°	406.6	395.4	387.1	378.7	392.0	405.1	417.5	429.8	441.8	453.6	459.2
80°	325.8	316.4	309.4	302.4	313.3	324.2	334.7	345.1	354.1	363.2	370.5
82.5°	241.9	237.4	232.4	227.4	226.5	225.6	222.0	218.3	237.6	256.9	269.6
85°	157.4	152.5	147.0	141.4	136.7	132.0	121.9	111.7	129.9	147.9	163.6
87.5°	69.7	67.8	66.7	65.7	65.5	65.3	57.6	49.8	57.4	65.1	71.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1566.1	1561.3	1556.5	1552.1	1547.5	1542.0	1547.5	1552.1	1556.5	1561.3	1566.1
5°	1470.8	1464.7	1458.7	1454.1	1449.5	1444.8	1449.5	1454.1	1458.7	1464.7	1470.8
7.5°	1413.5	1406.5	1399.5	1395.4	1391.3	1388.2	1391.3	1395.4	1399.5	1406.5	1413.5
10°	1396.2	1389.6	1382.9	1379.4	1376.0	1374.5	1376.0	1379.4	1382.9	1389.6	1396.2
12.5°	1421.8	1414.4	1407.1	1404.0	1401.1	1400.6	1401.1	1404.0	1407.1	1414.4	1421.8
15°	1474.8	1464.5	1454.4	1450.4	1446.5	1446.2	1446.5	1450.4	1454.4	1464.5	1474.8
17.5°	1525.7	1510.5	1495.4	1490.5	1485.4	1484.6	1485.4	1490.5	1495.4	1510.5	1525.7
20°	1556.7	1537.3	1517.9	1511.7	1505.5	1503.6	1505.5	1511.7	1517.9	1537.3	1556.7
22.5°	1557.8	1537.4	1516.9	1510.0	1503.2	1500.3	1503.2	1510.0	1516.9	1537.4	1557.8
25°	1526.2	1508.5	1490.9	1484.4	1477.9	1474.3	1477.9	1484.4	1490.9	1508.5	1526.2
27.5°	1464.4	1452.5	1440.6	1437.7	1434.8	1433.8	1434.8	1437.7	1440.6	1452.5	1464.4
30°	1388.3	1382.2	1376.2	1376.2	1376.2	1377.1	1376.2	1376.2	1376.2	1382.2	1388.3
32.5°	1311.9	1308.0	1304.0	1304.5	1305.1	1306.1	1305.1	1304.5	1304.0	1308.0	1311.9
35°	1244.5	1238.4	1232.5	1231.1	1229.8	1229.2	1229.8	1231.1	1232.5	1238.4	1244.5
37.5°	1187.2	1176.1	1165.1	1159.4	1153.5	1150.3	1153.5	1159.4	1165.1	1176.1	1187.2
40°	1134.6	1118.5	1102.6	1091.7	1081.1	1074.7	1081.1	1091.7	1102.6	1118.5	1134.6
42.5°	1081.2	1061.4	1041.5	1025.7	1010.0	999.8	1010.0	1025.7	1041.5	1061.4	1081.2
45°	1028.8	1006.0	983.3	964.8	946.5	934.6	946.5	964.8	983.3	1006.0	1028.8
47.5°	987.3	967.0	946.8	929.8	912.8	901.4	912.8	929.8	946.8	967.0	987.3
50°	962.5	946.3	930.2	914.4	898.6	887.6	898.6	914.4	930.2	946.3	962.5
52.5°	945.8	932.6	919.4	905.3	891.2	881.1	891.2	905.3	919.4	932.6	945.8
55°	930.2	918.7	907.2	894.8	882.4	873.3	882.4	894.8	907.2	918.7	930.2
57.5°	913.6	902.0	890.4	878.1	865.8	856.4	865.8	878.1	890.4	902.0	913.6
60°	890.6	879.2	868.0	855.4	842.7	832.9	842.7	855.4	868.0	879.2	890.6
62.5°	853.9	843.7	833.4	820.1	806.9	795.1	806.9	820.1	833.4	843.7	853.9
65°	804.3	794.5	784.6	771.8	758.9	748.9	758.9	771.8	784.6	794.5	804.3
67.5°	747.8	738.8	729.8	717.8	705.8	696.7	705.8	717.8	729.8	738.8	747.8
70°	687.5	680.1	672.7	661.2	649.7	639.4	649.7	661.2	672.7	680.1	687.5
72.5°	620.9	614.8	608.7	597.8	586.9	576.8	586.9	597.8	608.7	614.8	620.9
75°	541.7	538.7	535.8	526.5	517.3	507.7	517.3	526.5	535.8	538.7	541.7
77.5°	464.8	460.6	456.3	447.1	437.9	430.1	437.9	447.1	456.3	460.6	464.8
80°	378.0	376.2	374.4	361.9	349.4	335.0	349.4	361.9	374.4	376.2	378.0
82.5°	282.2	281.5	280.5	270.1	259.5	250.3	259.5	270.1	280.5	281.5	282.2
85°	179.3	177.9	176.6	168.4	160.2	151.8	160.2	168.4	176.6	177.9	179.3
87.5°	77.7	76.2	74.4	70.2	65.9	61.9	65.9	70.2	74.4	76.2	77.7
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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CATALOG NUMBER: NAV-SB3A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1572.2	1578.5	1586.2	1593.8	1603.6	1613.6	1623.4	1633.2	1644.4	1655.7	1668.2
5°	1479.4	1487.9	1500.2	1512.3	1528.3	1544.1	1561.6	1579.0	1598.8	1618.6	1642.3
7.5°	1423.6	1433.8	1448.2	1462.8	1482.1	1501.6	1523.6	1545.6	1571.6	1597.7	1629.0
10°	1407.6	1418.9	1436.3	1453.7	1475.5	1497.3	1521.1	1544.7	1570.8	1596.8	1630.0
12.5°	1436.4	1451.1	1473.2	1495.4	1517.9	1540.6	1559.0	1577.7	1594.9	1612.2	1639.2
15°	1497.0	1519.4	1550.8	1582.4	1602.0	1621.7	1626.5	1631.3	1628.9	1626.6	1639.5
17.5°	1558.5	1591.4	1633.1	1675.0	1690.7	1706.5	1691.5	1676.4	1648.0	1619.5	1614.9
20°	1596.8	1637.1	1684.9	1732.7	1739.9	1747.3	1715.6	1684.1	1634.7	1585.4	1563.1
22.5°	1599.3	1640.7	1686.3	1731.9	1727.6	1723.1	1682.0	1640.9	1584.4	1528.2	1495.4
25°	1563.0	1599.8	1637.2	1674.6	1659.6	1644.4	1603.9	1563.5	1512.8	1462.2	1424.3
27.5°	1493.0	1521.6	1548.3	1574.9	1558.0	1541.2	1508.8	1476.3	1434.7	1393.1	1356.6
30°	1408.9	1429.4	1449.7	1470.0	1456.3	1442.6	1415.6	1388.7	1354.1	1319.6	1290.6
32.5°	1328.3	1344.6	1363.4	1382.0	1366.7	1351.6	1325.6	1299.9	1272.2	1244.7	1227.5
35°	1259.5	1274.7	1287.9	1301.1	1282.9	1264.6	1239.0	1213.5	1192.5	1171.5	1166.8
37.5°	1201.1	1214.9	1221.1	1227.2	1204.7	1182.1	1156.5	1131.1	1116.0	1100.8	1106.1
40°	1146.4	1158.1	1156.7	1155.2	1129.1	1103.2	1078.6	1054.0	1043.0	1032.2	1044.0
42.5°	1091.1	1101.1	1093.6	1086.1	1058.1	1030.0	1006.7	983.3	974.4	965.6	981.1
45°	1037.7	1046.6	1036.0	1025.2	996.1	967.0	944.8	922.7	915.1	907.7	922.9
47.5°	993.5	999.8	987.4	975.0	946.3	917.7	896.0	874.3	867.4	860.3	873.1
50°	962.8	963.1	947.2	931.3	905.7	880.0	859.6	839.1	828.1	817.1	828.4
52.5°	942.4	939.0	920.1	901.4	877.4	853.4	834.8	816.0	799.5	783.1	794.2
55°	925.5	920.8	900.8	880.8	859.9	838.9	818.7	798.5	775.2	751.7	769.5
57.5°	908.9	904.0	884.0	863.9	843.1	822.4	798.6	774.9	749.8	724.6	750.4
60°	885.4	880.2	860.0	839.8	818.7	797.6	770.4	743.1	721.1	698.9	732.5
62.5°	848.9	843.9	825.3	806.9	784.3	761.9	730.1	698.3	684.3	670.3	712.1
65°	799.3	794.2	777.9	761.6	740.0	718.5	684.5	650.5	645.0	639.7	684.2
67.5°	742.9	737.9	723.9	709.7	689.4	669.0	637.6	606.1	607.8	609.5	646.5
70°	682.6	677.8	665.1	652.4	634.8	617.2	589.6	561.9	567.7	573.7	599.9
72.5°	615.2	609.5	597.1	584.6	568.7	552.8	531.1	509.3	517.8	526.4	544.5
75°	535.8	529.7	518.3	507.1	492.6	478.3	462.1	445.9	454.2	462.4	476.3
77.5°	459.2	453.6	441.8	429.8	417.5	405.1	392.0	378.7	387.1	395.4	406.6
80°	370.5	363.2	354.1	345.1	334.7	324.2	313.3	302.4	309.4	316.4	325.8
82.5°	269.6	256.9	237.6	218.3	222.0	225.6	226.5	227.4	232.4	237.4	241.9
85°	163.6	147.9	129.9	111.7	121.9	132.0	136.7	141.4	147.0	152.5	157.4
87.5°	71.3	65.1	57.4	49.8	57.6	65.3	65.5	65.7	66.7	67.8	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: P963666

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1680.7	1696.2	1710.0	1724.4	1738.7	1753.7	1768.6	1783.5	1798.5	1812.4	1826.4
5°	1665.8	1692.9	1720.3	1749.3	1778.3	1809.2	1840.4	1871.1	1902.1	1933.0	1964.0
7.5°	1660.5	1695.5	1732.9	1773.2	1813.7	1859.7	1905.7	1952.8	2000.0	2051.0	2102.2
10°	1663.1	1700.7	1746.8	1794.8	1842.5	1898.4	1954.2	2016.5	2078.9	2143.5	2208.1
12.5°	1666.3	1701.3	1749.8	1803.9	1858.1	1923.9	1989.7	2060.4	2131.0	2201.9	2272.9
15°	1652.5	1680.5	1734.1	1796.8	1859.6	1935.3	2011.2	2087.7	2164.4	2238.4	2312.3
17.5°	1610.1	1627.4	1690.4	1765.9	1841.3	1929.3	2017.2	2100.8	2184.5	2259.5	2334.5
20°	1541.0	1545.6	1619.0	1712.5	1805.9	1912.5	2019.1	2111.1	2202.9	2280.9	2358.9
22.5°	1462.6	1453.7	1537.3	1649.8	1762.4	1892.0	2021.8	2124.9	2227.9	2307.7	2387.3
25°	1386.5	1362.4	1448.1	1579.9	1711.7	1871.9	2032.1	2149.9	2267.7	2345.7	2423.8
27.5°	1320.1	1290.8	1368.8	1516.0	1663.2	1858.4	2053.6	2189.0	2324.4	2398.9	2473.3
30°	1261.6	1238.6	1304.1	1462.6	1620.9	1852.1	2083.0	2239.6	2396.2	2468.2	2540.2
32.5°	1210.4	1200.2	1253.0	1416.4	1579.9	1844.3	2108.4	2292.5	2476.6	2547.7	2619.0
35°	1162.0	1166.2	1210.2	1371.1	1532.1	1829.5	2127.1	2352.8	2578.4	2646.7	2714.8
37.5°	1111.3	1126.9	1165.3	1317.8	1470.5	1804.3	2138.1	2420.2	2702.2	2789.1	2876.0
40°	1055.8	1079.6	1114.5	1254.3	1394.0	1769.6	2145.1	2505.8	2866.4	2993.1	3119.8
42.5°	996.8	1026.8	1058.9	1184.1	1309.2	1733.7	2158.3	2617.8	3077.4	3260.2	3443.1
45°	938.2	967.2	999.8	1109.5	1219.2	1700.4	2181.6	2765.2	3348.9	3595.6	3842.2
47.5°	885.8	910.8	952.8	1050.5	1148.2	1672.9	2197.6	2922.4	3647.1	3994.3	4341.5
50°	839.8	868.8	924.0	1011.4	1098.7	1643.0	2187.2	3068.0	3948.9	4472.4	4995.8
52.5°	805.4	845.9	909.5	985.5	1061.7	1592.3	2123.0	3162.7	4202.3	4974.6	5747.0
55°	787.2	848.2	907.3	966.9	1026.3	1508.4	1990.3	3141.8	4293.2	5419.9	6546.6
57.5°	776.2	850.5	902.6	944.6	986.7	1390.0	1793.2	2995.0	4197.0	5735.5	7273.9
60°	765.9	843.4	877.7	910.8	943.8	1236.4	1528.8	2722.0	3915.1	5814.3	7713.5
62.5°	753.9	825.7	829.9	851.9	873.8	1052.4	1231.0	2352.6	3474.2	5482.3	7490.3
65°	728.7	783.4	782.9	793.2	803.6	886.9	970.3	1975.8	2981.3	5012.5	7043.6
67.5°	683.6	714.3	715.8	710.0	704.2	728.0	751.5	1606.7	2461.7	4453.3	6444.9
70°	626.3	636.4	636.4	609.7	582.8	576.0	569.3	1265.1	1960.7	3843.2	5725.8
72.5°	562.6	562.4	556.1	518.0	480.0	459.5	439.1	967.1	1495.1	3181.9	4868.8
75°	490.3	492.7	463.2	420.7	378.0	359.5	341.0	701.9	1062.8	2423.7	3784.6
77.5°	417.8	419.0	370.5	329.1	287.7	275.1	262.5	475.6	688.7	1696.4	2704.1
80°	335.1	335.3	277.3	242.3	207.3	202.0	196.8	306.5	416.2	1093.0	1769.8
82.5°	246.5	243.7	194.2	168.4	142.6	141.6	140.6	188.5	236.5	632.5	1028.8
85°	162.3	158.7	121.9	103.0	84.0	84.6	85.1	100.8	116.5	284.5	452.6
87.5°	71.6	67.1	51.8	44.1	36.4	36.8	37.3	41.8	46.2	93.2	140.1
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: P963666

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1833.4	1840.4	1850.2	1860.1	1865.9	1871.8	1874.7	1877.6	1876.4	1877.6	1874.7
5°	1988.2	2012.4	2036.4	2060.5	2073.5	2086.5	2094.4	2102.4	2108.3	2102.4	2094.4
7.5°	2141.5	2180.8	2216.2	2251.6	2272.9	2294.3	2305.7	2317.2	2322.8	2317.2	2305.7
10°	2254.6	2301.1	2342.6	2384.1	2409.3	2434.4	2445.5	2456.7	2460.9	2456.7	2445.5
12.5°	2323.4	2373.7	2411.3	2448.6	2467.0	2485.2	2491.3	2497.4	2498.0	2497.4	2491.3
15°	2355.9	2399.3	2422.9	2446.5	2447.1	2447.8	2441.2	2434.7	2427.0	2434.7	2441.2
17.5°	2363.9	2393.3	2393.7	2394.1	2367.8	2341.3	2317.1	2292.9	2275.8	2292.9	2317.1
20°	2369.2	2379.4	2348.5	2317.5	2259.3	2201.0	2158.5	2116.1	2090.1	2116.1	2158.5
22.5°	2373.9	2360.5	2296.3	2232.1	2146.5	2060.8	2007.7	1954.7	1925.9	1954.7	2007.7
25°	2381.4	2339.0	2241.7	2144.3	2040.3	1936.1	1880.4	1824.7	1797.4	1824.7	1880.4
27.5°	2397.6	2321.8	2192.8	2063.9	1948.5	1833.2	1778.3	1723.5	1697.7	1723.5	1778.3
30°	2427.2	2314.2	2155.6	1996.8	1876.6	1756.4	1705.5	1654.7	1630.7	1654.7	1705.5
32.5°	2464.3	2309.7	2130.2	1950.5	1837.5	1724.6	1684.7	1644.6	1627.4	1644.6	1684.7
35°	2525.5	2336.3	2149.1	1962.1	1883.5	1805.1	1795.8	1786.5	1785.0	1786.5	1795.8
37.5°	2653.4	2430.8	2260.7	2090.6	2085.6	2080.4	2123.1	2165.7	2187.9	2165.7	2123.1
40°	2877.7	2635.6	2509.1	2382.6	2471.9	2561.2	2664.8	2768.4	2820.0	2768.4	2664.8
42.5°	3202.8	2962.7	2889.8	2816.9	3011.7	3206.4	3394.9	3583.3	3694.0	3583.3	3394.9
45°	3626.4	3410.6	3378.5	3346.3	3658.3	3970.3	4280.0	4589.7	4777.8	4589.7	4280.0
47.5°	4131.6	3921.5	3915.1	3908.5	4358.6	4808.6	5261.9	5715.3	5981.6	5715.3	5261.9
50°	4736.5	4477.2	4478.3	4479.5	5059.5	5639.5	6238.0	6836.5	7198.4	6836.5	6238.0
52.5°	5432.9	5119.0	5087.3	5055.5	5748.3	6441.2	7181.7	7922.1	8355.8	7922.1	7181.7
55°	6236.4	5926.1	5802.4	5678.6	6449.8	7220.8	8103.5	8986.4	9502.2	8986.4	8103.5
57.5°	7105.0	6936.0	6687.8	6439.6	7218.3	7996.8	8996.7	9996.5	10636.2	9996.5	8996.7
60°	7975.9	8238.3	7930.1	7621.8	8358.7	9095.5	10166.1	11236.6	11927.9	11236.6	10166.1
62.5°	8207.3	8924.3	8889.5	8854.7	9529.7	10204.8	11223.2	12241.8	12880.8	12241.8	11223.2
65°	7716.5	8389.4	8522.6	8655.6	9513.4	10371.3	11358.9	12346.4	12890.5	12346.4	11358.9
67.5°	7084.9	7724.9	7787.3	7849.8	8743.6	9637.3	10629.1	11620.9	12047.2	11620.9	10629.1
70°	6421.8	7118.0	7145.9	7173.9	7973.2	8772.4	9626.0	10479.5	10716.4	10479.5	9626.0
72.5°	5667.5	6466.4	6486.5	6506.5	7131.8	7757.2	8396.5	9035.7	9059.7	9035.7	8396.5
75°	4611.4	5438.1	5512.3	5586.7	6073.1	6559.7	7009.7	7459.6	7339.1	7459.6	7009.7
77.5°	3475.8	4247.6	4353.9	4460.1	4830.0	5199.8	5519.0	5838.2	5630.9	5838.2	5519.0
80°	2419.1	3068.3	3200.4	3332.4	3611.8	3890.9	4058.6	4226.2	3892.7	4226.2	4058.6
82.5°	1472.6	1916.6	2064.0	2211.6	2403.9	2596.1	2666.1	2735.9	2473.9	2735.9	2666.1
85°	688.2	923.8	1049.3	1174.8	1332.7	1490.7	1530.3	1570.0	1360.2	1570.0	1530.3
87.5°	219.4	298.5	368.5	438.5	517.5	596.4	599.8	603.2	506.4	603.2	599.8
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: P963666

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1871.8	1865.9	1860.1	1850.2	1840.4	1833.4	1826.4
5°	2086.5	2073.5	2060.5	2036.4	2012.4	1988.2	1964.0
7.5°	2294.3	2272.9	2251.6	2216.2	2180.8	2141.5	2102.2
10°	2434.4	2409.3	2384.1	2342.6	2301.1	2254.6	2208.1
12.5°	2485.2	2467.0	2448.6	2411.3	2373.7	2323.4	2272.9
15°	2447.8	2447.1	2446.5	2422.9	2399.3	2355.9	2312.3
17.5°	2341.3	2367.8	2394.1	2393.7	2393.3	2363.9	2334.5
20°	2201.0	2259.3	2317.5	2348.5	2379.4	2369.2	2358.9
22.5°	2060.8	2146.5	2232.1	2296.3	2360.5	2373.9	2387.3
25°	1936.1	2040.3	2144.3	2241.7	2339.0	2381.4	2423.8
27.5°	1833.2	1948.5	2063.9	2192.8	2321.8	2397.6	2473.3
30°	1756.4	1876.6	1996.8	2155.6	2314.2	2427.2	2540.2
32.5°	1724.6	1837.5	1950.5	2130.2	2309.7	2464.3	2619.0
35°	1805.1	1883.5	1962.1	2149.1	2336.3	2525.5	2714.8
37.5°	2080.4	2085.6	2090.6	2260.7	2430.8	2653.4	2876.0
40°	2561.2	2471.9	2382.6	2509.1	2635.6	2877.7	3119.8
42.5°	3206.4	3011.7	2816.9	2889.8	2962.7	3202.8	3443.1
45°	3970.3	3658.3	3346.3	3378.5	3410.6	3626.4	3842.2
47.5°	4808.6	4358.6	3908.5	3915.1	3921.5	4131.6	4341.5
50°	5639.5	5059.5	4479.5	4478.3	4477.2	4736.5	4995.8
52.5°	6441.2	5748.3	5055.5	5087.3	5119.0	5432.9	5747.0
55°	7220.8	6449.8	5678.6	5802.4	5926.1	6236.4	6546.6
57.5°	7996.8	7218.3	6439.6	6687.8	6936.0	7105.0	7273.9
60°	9095.5	8358.7	7621.8	7930.1	8238.3	7975.9	7713.5
62.5°	10204.8	9529.7	8854.7	8889.5	8924.3	8207.3	7490.3
65°	10371.3	9513.4	8655.6	8522.6	8389.4	7716.5	7043.6
67.5°	9637.3	8743.6	7849.8	7787.3	7724.9	7084.9	6444.9
70°	8772.4	7973.2	7173.9	7145.9	7118.0	6421.8	5725.8
72.5°	7757.2	7131.8	6506.5	6486.5	6466.4	5667.5	4868.8
75°	6559.7	6073.1	5586.7	5512.3	5438.1	4611.4	3784.6
77.5°	5199.8	4830.0	4460.1	4353.9	4247.6	3475.8	2704.1
80°	3890.9	3611.8	3332.4	3200.4	3068.3	2419.1	1769.8
82.5°	2596.1	2403.9	2211.6	2064.0	1916.6	1472.6	1028.8
85°	1490.7	1332.7	1174.8	1049.3	923.8	688.2	452.6
87.5°	596.4	517.5	438.5	368.5	298.5	219.4	140.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)