

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: P964193

Luminaire Tested: **NAV-SB3B-830-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964193
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-SB3B-830-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15505.2 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 109.2
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

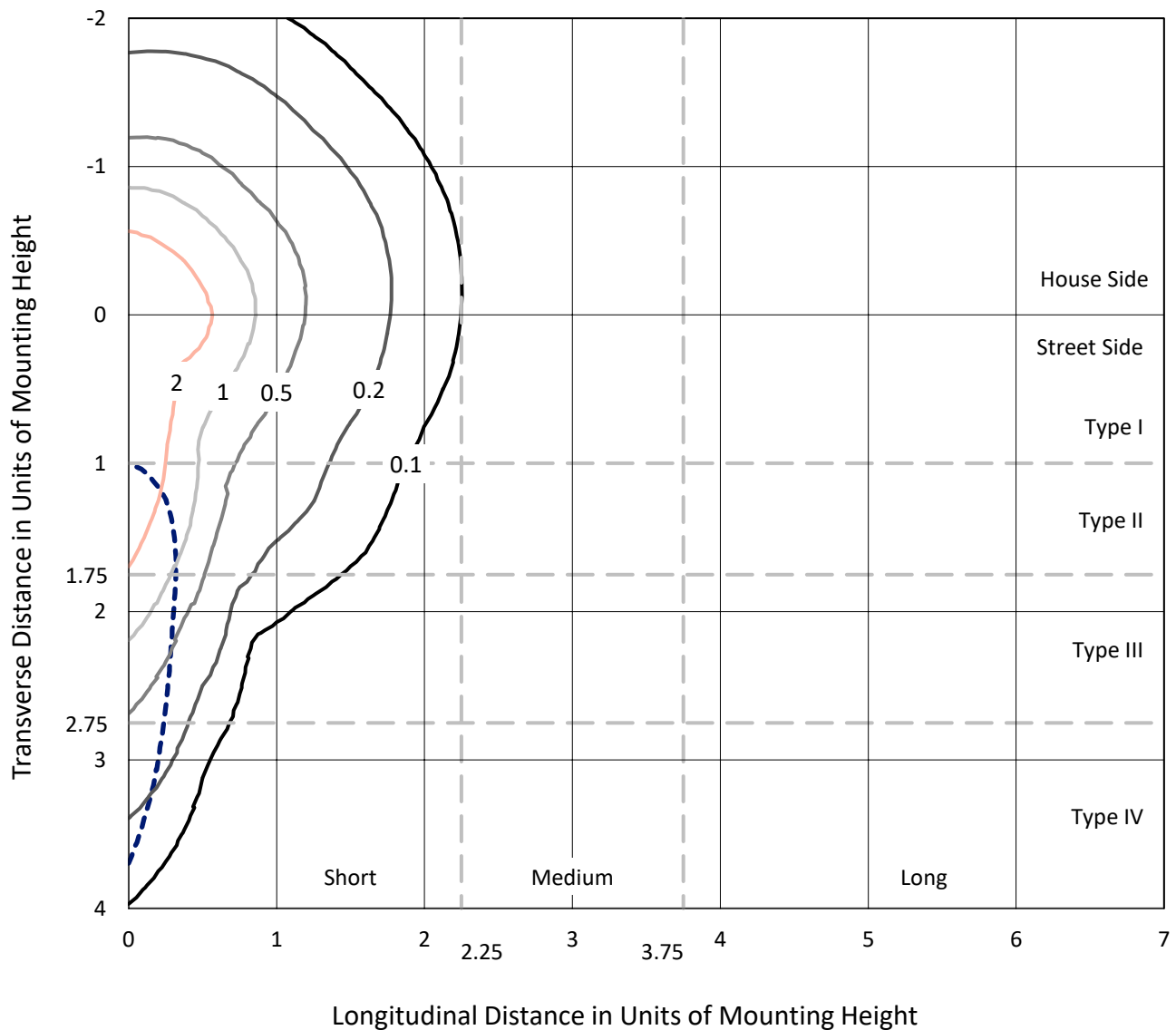


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Iso-Footcandle Lines of Horizontal Illumination

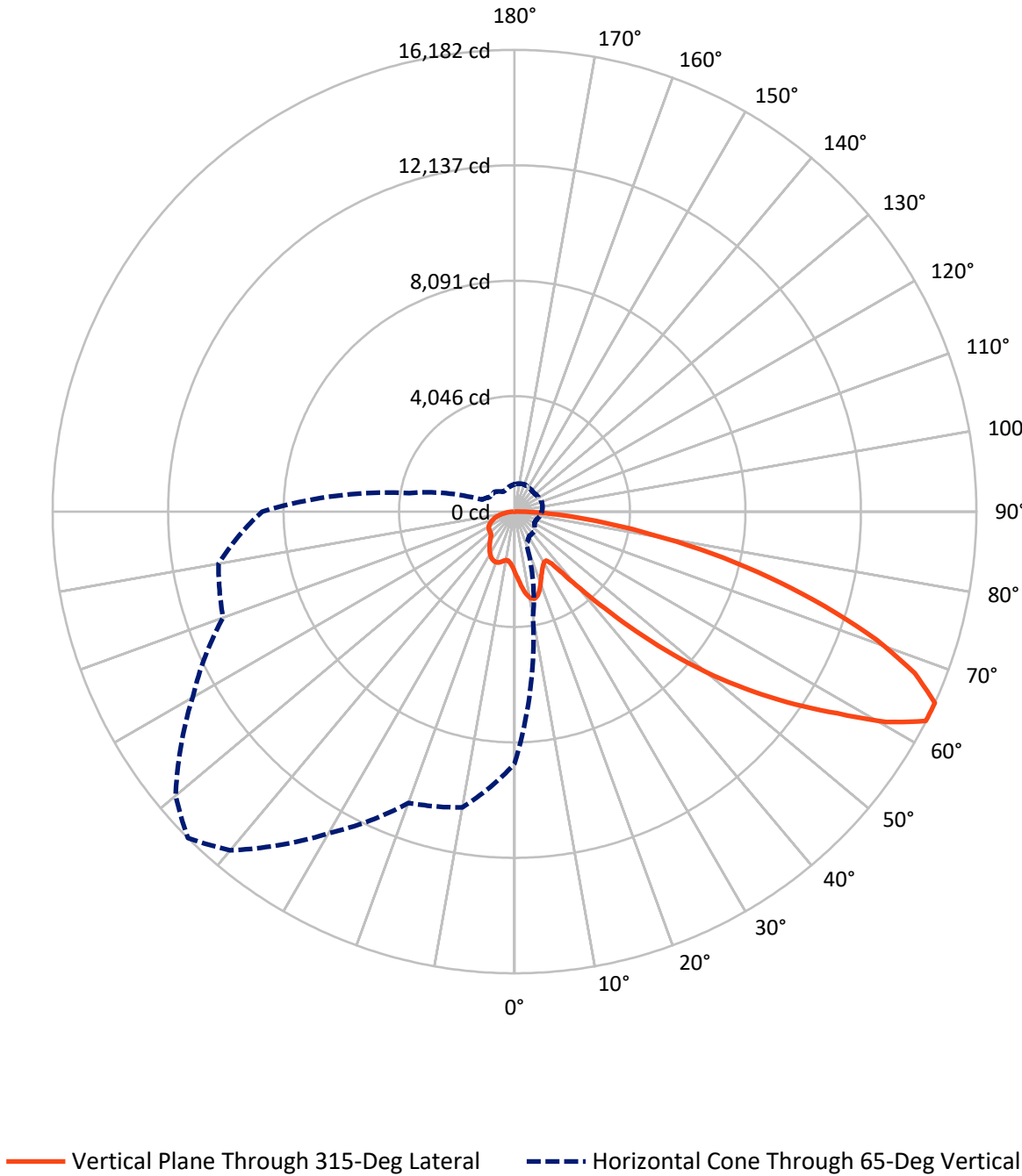
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	3940.6	0.0	3940.6
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	11564.5	0.0	11564.5
	% Fixture	74.6	0.0	74.6
Total	Lumens	15505.2	0.0	15505.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	1.4
10°-20°	664.0	4.3
20°-30°	1025.6	6.6
30°-40°	1299.7	8.4
40°-50°	1960.2	12.6
50°-60°	3167.0	20.4
60°-70°	3948.2	25.5
70°-80°	2589.0	16.7
80°-90°	640.1	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°	15505.2	100.0
0°-180°	15505.2	100.0

Coefficient of Utilization



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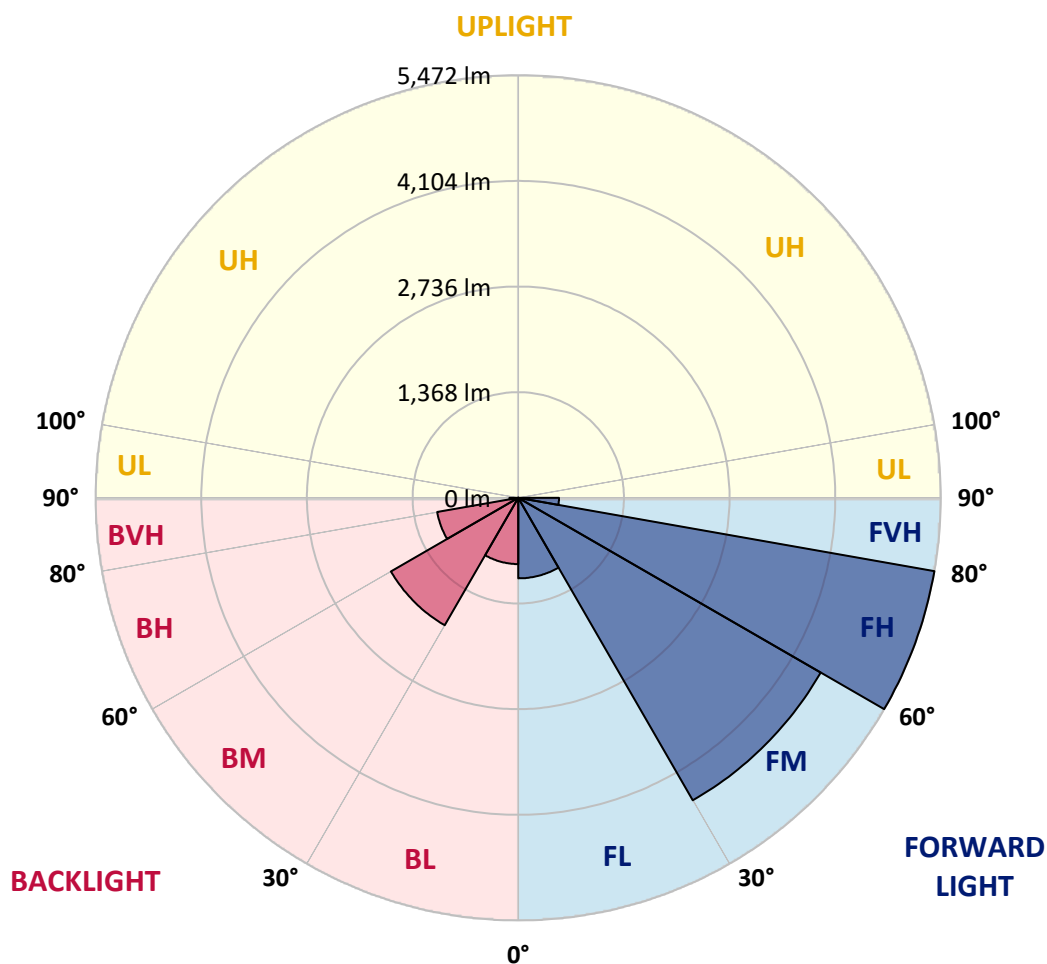
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1042.9	6.7			
FM	(30°-60°)	4522.5	29.2			
FH	(60°-80°)	5471.8	35.3			G3/7500
FVH	(80°-90°)	527.3	3.4			G4/750
BL	(0°-30°)	858.1	5.5	B2/1000		
BM	(30°-60°)	1904.4	12.3	B2/2500		
BH	(60°-80°)	1065.4	6.9	B3/2500		G3/2500
BVH	(80°-90°)	112.8	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1
2.5°	2292.8	2275.3	2257.7	2238.9	2220.3	2201.5	2182.6	2164.7	2146.7	2129.2	2109.9
5°	2465.5	2426.6	2387.7	2349.0	2310.2	2271.3	2232.3	2196.0	2159.5	2125.1	2091.2
7.5°	2639.0	2574.8	2510.7	2451.5	2392.2	2334.5	2276.9	2226.1	2175.3	2128.4	2084.4
10°	2771.9	2690.8	2609.8	2531.4	2453.2	2383.2	2313.1	2253.1	2192.8	2135.0	2087.7
12.5°	2853.3	2764.2	2675.1	2586.5	2497.8	2415.2	2332.6	2264.5	2196.6	2135.8	2091.8
15°	2902.8	2809.9	2717.1	2620.8	2524.7	2429.5	2334.3	2255.6	2176.9	2109.6	2074.4
17.5°	2930.6	2836.5	2742.3	2637.3	2532.4	2421.9	2311.5	2216.8	2122.2	2042.9	2021.2
20°	2961.3	2863.4	2765.6	2650.1	2534.8	2401.0	2267.1	2149.7	2032.5	1940.2	1934.5
22.5°	2996.9	2896.9	2796.8	2667.5	2538.1	2375.2	2212.5	2071.1	1929.9	1824.9	1836.1
25°	3042.7	2944.7	2846.7	2698.9	2551.0	2349.9	2148.9	1983.4	1817.9	1710.3	1740.7
27.5°	3104.8	3011.4	2918.0	2748.0	2578.0	2332.9	2087.9	1903.1	1718.3	1620.3	1657.1
30°	3188.8	3098.4	3008.2	2811.6	2615.0	2325.0	2034.9	1836.0	1637.1	1554.9	1583.7
32.5°	3287.7	3198.3	3108.9	2877.9	2646.9	2315.2	1983.4	1778.2	1572.9	1506.6	1519.5
35°	3408.0	3322.4	3236.7	2953.5	2670.2	2296.7	1923.3	1721.3	1519.3	1464.1	1458.8
37.5°	3610.5	3501.3	3392.2	3038.2	2684.2	2265.0	1845.9	1654.4	1462.9	1414.6	1395.1
40°	3916.5	3757.4	3598.4	3145.7	2693.0	2221.5	1750.0	1574.5	1399.0	1355.3	1325.4
42.5°	4322.3	4092.7	3863.1	3286.4	2709.6	2176.5	1643.5	1486.5	1329.3	1289.0	1251.3
45°	4823.4	4513.7	4204.0	3471.4	2738.8	2134.7	1530.6	1392.8	1255.0	1214.1	1177.7
47.5°	5450.1	5014.3	4578.4	3668.6	2758.8	2100.1	1441.5	1318.8	1196.2	1143.4	1112.0
50°	6271.6	5614.4	4957.3	3851.5	2745.7	2062.5	1379.2	1269.6	1160.0	1090.6	1054.2
52.5°	7214.5	6244.9	5275.5	3970.3	2665.1	1998.9	1332.8	1237.2	1141.7	1062.0	1011.1
55°	8218.3	6803.8	5389.6	3944.1	2498.6	1893.5	1288.4	1213.7	1139.0	1064.8	988.2
57.5°	9131.3	7200.0	5268.7	3759.9	2251.1	1745.0	1238.7	1185.9	1133.1	1067.6	974.4
60°	9683.2	7299.0	4914.8	3417.0	1919.2	1552.1	1184.8	1143.4	1101.9	1058.7	961.4
62.5°	9402.9	6882.2	4361.4	2953.3	1545.3	1321.1	1097.0	1069.4	1041.9	1036.6	946.5
65°	8842.2	6292.4	3742.6	2480.3	1218.1	1113.5	1008.8	995.8	982.8	983.4	914.7
67.5°	8090.6	5590.5	3090.3	2016.9	943.5	913.8	884.0	891.3	898.5	896.7	858.0
70°	7187.8	4824.6	2461.4	1588.0	714.6	723.1	731.5	765.3	798.9	798.9	786.3
72.5°	6112.0	3994.3	1876.9	1214.0	551.2	576.9	602.6	650.4	698.0	706.0	706.2
75°	4751.0	3042.6	1334.2	881.2	428.0	451.3	474.6	528.1	581.6	618.5	615.4
77.5°	3394.5	2129.5	864.6	597.1	329.5	345.3	361.2	413.2	465.1	526.0	524.4
80°	2221.7	1372.1	522.3	384.7	247.1	253.6	260.1	304.2	348.1	421.0	420.7
82.5°	1291.4	794.1	296.8	236.6	176.6	177.7	179.0	211.5	243.8	306.0	309.4
85°	568.2	357.2	146.3	126.5	106.8	106.2	105.6	129.3	153.0	199.3	203.8
87.5°	175.9	117.0	58.1	52.5	46.8	46.2	45.6	55.4	65.1	84.3	90.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1
2.5°	2094.2	2078.5	2064.4	2050.3	2037.9	2025.6	2013.1	2000.8	1991.2	1981.5	1973.7
5°	2061.6	2031.9	2007.0	1982.2	1960.3	1938.4	1918.5	1898.5	1883.2	1867.9	1857.1
7.5°	2045.1	2005.7	1972.9	1940.2	1912.6	1885.0	1860.7	1836.3	1818.0	1799.9	1787.2
10°	2046.2	2004.6	1971.9	1939.2	1909.5	1879.7	1852.3	1824.9	1803.1	1781.2	1767.0
12.5°	2057.8	2024.0	2002.1	1980.6	1957.1	1934.0	1905.6	1877.3	1849.4	1821.6	1803.2
15°	2058.1	2041.9	2044.9	2047.8	2041.8	2035.8	2011.0	1986.4	1946.9	1907.2	1879.3
17.5°	2027.2	2033.1	2068.8	2104.4	2123.4	2142.4	2122.5	2102.7	2050.2	1997.7	1956.5
20°	1962.4	1990.1	2052.0	2114.1	2153.7	2193.5	2184.3	2175.0	2115.1	2055.2	2004.6
22.5°	1877.3	1918.4	1989.1	2059.9	2111.6	2163.2	2168.8	2174.2	2116.9	2059.7	2007.7
25°	1788.1	1835.5	1899.1	1962.8	2013.5	2064.4	2083.3	2102.3	2055.2	2008.4	1962.1
27.5°	1702.9	1748.8	1801.0	1853.3	1894.0	1934.8	1955.9	1977.0	1943.6	1910.2	1874.3
30°	1620.1	1656.6	1700.0	1743.3	1777.1	1811.0	1828.2	1845.3	1819.9	1794.4	1768.6
32.5°	1541.0	1562.5	1597.2	1631.8	1664.2	1696.7	1715.7	1734.9	1711.4	1688.0	1667.5
35°	1464.6	1470.7	1497.0	1523.4	1555.4	1587.6	1610.5	1633.4	1616.7	1600.1	1581.2
37.5°	1388.6	1382.0	1401.0	1419.9	1451.9	1484.0	1512.3	1540.6	1532.9	1525.2	1507.8
40°	1310.6	1295.8	1309.4	1323.1	1354.0	1385.0	1417.6	1450.2	1452.0	1453.9	1439.0
42.5°	1231.7	1212.1	1223.2	1234.4	1263.7	1293.0	1328.3	1363.5	1372.9	1382.2	1369.7
45°	1158.6	1139.5	1148.8	1158.4	1186.1	1214.0	1250.5	1287.0	1300.4	1313.9	1302.7
47.5°	1096.0	1079.9	1088.8	1097.6	1124.8	1152.0	1188.0	1224.0	1239.5	1255.0	1247.2
50°	1040.0	1025.8	1039.6	1053.4	1079.0	1104.6	1136.9	1169.1	1189.1	1209.1	1208.6
52.5°	997.0	983.0	1003.7	1024.3	1047.9	1071.3	1101.4	1131.5	1155.2	1178.8	1183.1
55°	965.9	943.7	973.1	1002.3	1027.8	1053.1	1079.4	1105.8	1130.8	1155.9	1161.7
57.5°	942.0	909.6	941.2	972.8	1002.6	1032.4	1058.3	1084.4	1109.8	1135.0	1140.9
60°	919.5	877.5	905.2	932.9	967.1	1001.2	1027.7	1054.2	1079.5	1104.9	1111.4
62.5°	893.9	841.4	859.1	876.7	916.5	956.4	984.6	1012.9	1036.1	1059.3	1065.6
65°	858.8	803.0	809.9	816.5	859.3	902.0	929.0	956.0	976.4	996.9	1003.4
67.5°	811.6	765.2	763.0	760.9	800.3	839.8	865.4	890.9	908.7	926.3	932.6
70°	753.2	720.2	712.8	705.4	740.0	774.8	796.8	819.0	835.0	850.9	856.9
72.5°	683.6	660.9	650.1	639.4	666.7	693.9	713.9	733.9	749.5	765.2	772.3
75°	598.0	580.5	570.2	559.8	580.0	600.3	618.5	636.5	650.8	665.0	672.5
77.5°	510.4	496.4	486.0	475.5	492.0	508.5	524.0	539.6	554.5	569.4	576.5
80°	409.0	397.2	388.5	379.7	393.4	407.0	420.1	433.2	444.5	455.9	465.2
82.5°	303.7	298.0	291.7	285.6	284.4	283.2	278.7	274.1	298.3	322.5	338.4
85°	197.6	191.5	184.5	177.5	171.7	165.6	153.0	140.3	163.0	185.7	205.3
87.5°	87.5	85.1	83.7	82.5	82.2	82.0	72.4	62.6	72.1	81.7	89.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1
2.5°	1966.1	1960.0	1953.9	1948.3	1942.7	1935.7	1942.7	1948.3	1953.9	1960.0	1966.1
5°	1846.4	1838.7	1831.2	1825.3	1819.6	1813.8	1819.6	1825.3	1831.2	1838.7	1846.4
7.5°	1774.4	1765.7	1757.0	1751.7	1746.6	1742.7	1746.6	1751.7	1757.0	1765.7	1774.4
10°	1752.6	1744.3	1736.1	1731.7	1727.2	1725.5	1727.2	1731.7	1736.1	1744.3	1752.6
12.5°	1784.8	1775.5	1766.4	1762.6	1758.9	1758.2	1758.9	1762.6	1766.4	1775.5	1784.8
15°	1851.4	1838.4	1825.7	1820.8	1815.9	1815.5	1815.9	1820.8	1825.7	1838.4	1851.4
17.5°	1915.3	1896.4	1877.3	1871.0	1864.7	1863.8	1864.7	1871.0	1877.3	1896.4	1915.3
20°	1954.2	1929.9	1905.5	1897.7	1889.9	1887.4	1889.9	1897.7	1905.5	1929.9	1954.2
22.5°	1955.5	1930.0	1904.2	1895.6	1887.0	1883.3	1887.0	1895.6	1904.2	1930.0	1955.5
25°	1915.9	1893.7	1871.5	1863.4	1855.4	1850.6	1855.4	1863.4	1871.5	1893.7	1915.9
27.5°	1838.3	1823.5	1808.5	1804.8	1801.1	1799.9	1801.1	1804.8	1808.5	1823.5	1838.3
30°	1742.8	1735.2	1727.5	1727.5	1727.5	1728.8	1727.5	1727.5	1727.5	1735.2	1742.8
32.5°	1647.0	1641.9	1636.9	1637.6	1638.4	1639.6	1638.4	1637.6	1636.9	1641.9	1647.0
35°	1562.3	1554.6	1547.1	1545.5	1543.9	1543.0	1543.9	1545.5	1547.1	1554.6	1562.3
37.5°	1490.2	1476.4	1462.7	1455.4	1448.1	1444.0	1448.1	1455.4	1462.7	1476.4	1490.2
40°	1424.2	1404.1	1384.2	1370.5	1357.1	1349.1	1357.1	1370.5	1384.2	1404.1	1424.2
42.5°	1357.3	1332.4	1307.4	1287.7	1267.9	1255.0	1267.9	1287.7	1307.4	1332.4	1357.3
45°	1291.4	1262.9	1234.4	1211.2	1188.1	1173.2	1188.1	1211.2	1234.4	1262.9	1291.4
47.5°	1239.3	1214.0	1188.6	1167.2	1145.8	1131.5	1145.8	1167.2	1188.6	1214.0	1239.3
50°	1208.3	1188.0	1167.7	1147.9	1128.0	1114.3	1128.0	1147.9	1167.7	1188.0	1208.3
52.5°	1187.3	1170.8	1154.3	1136.5	1118.8	1106.2	1118.8	1136.5	1154.3	1170.8	1187.3
55°	1167.7	1153.2	1138.9	1123.3	1107.8	1096.3	1107.8	1123.3	1138.9	1153.2	1167.7
57.5°	1146.9	1132.3	1117.8	1102.4	1086.9	1075.0	1086.9	1102.4	1117.8	1132.3	1146.9
60°	1118.0	1103.7	1089.6	1073.7	1057.9	1045.6	1057.9	1073.7	1089.6	1103.7	1118.0
62.5°	1071.9	1059.1	1046.2	1029.5	1012.9	998.1	1012.9	1029.5	1046.2	1059.1	1071.9
65°	1009.7	997.4	985.0	968.8	952.7	940.0	952.7	968.8	985.0	997.4	1009.7
67.5°	938.8	927.4	916.1	901.1	886.0	874.6	886.0	901.1	916.1	927.4	938.8
70°	862.9	853.7	844.5	830.0	815.7	802.6	815.7	830.0	844.5	853.7	862.9
72.5°	779.5	771.8	764.1	750.4	736.8	724.1	736.8	750.4	764.1	771.8	779.5
75°	680.1	676.3	672.5	661.0	649.4	637.3	649.4	661.0	672.5	676.3	680.1
77.5°	583.5	578.3	572.9	561.3	549.6	540.0	549.6	561.3	572.9	578.3	583.5
80°	474.6	472.2	470.1	454.4	438.7	420.6	438.7	454.4	470.1	472.2	474.6
82.5°	354.2	353.3	352.2	339.1	325.7	314.2	325.7	339.1	352.2	353.3	354.2
85°	225.0	223.3	221.7	211.5	201.1	190.6	201.1	211.5	221.7	223.3	225.0
87.5°	97.5	95.5	93.5	88.1	82.8	77.7	82.8	88.1	93.5	95.5	97.5
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: P964193

CATALOG NUMBER: NAV-SB3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1
2.5°	1973.7	1981.5	1991.2	2000.8	2013.1	2025.6	2037.9	2050.3	2064.4	2078.5	2094.2
5°	1857.1	1867.9	1883.2	1898.5	1918.5	1938.4	1960.3	1982.2	2007.0	2031.9	2061.6
7.5°	1787.2	1799.9	1818.0	1836.3	1860.7	1885.0	1912.6	1940.2	1972.9	2005.7	2045.1
10°	1767.0	1781.2	1803.1	1824.9	1852.3	1879.7	1909.5	1939.2	1971.9	2004.6	2046.2
12.5°	1803.2	1821.6	1849.4	1877.3	1905.6	1934.0	1957.1	1980.6	2002.1	2024.0	2057.8
15°	1879.3	1907.2	1946.9	1986.4	2011.0	2035.8	2041.8	2047.8	2044.9	2041.9	2058.1
17.5°	1956.5	1997.7	2050.2	2102.7	2122.5	2142.4	2123.4	2104.4	2068.8	2033.1	2027.2
20°	2004.6	2055.2	2115.1	2175.0	2184.3	2193.5	2153.7	2114.1	2052.0	1990.1	1962.4
22.5°	2007.7	2059.7	2116.9	2174.2	2168.8	2163.2	2111.6	2059.9	1989.1	1918.4	1877.3
25°	1962.1	2008.4	2055.2	2102.3	2083.3	2064.4	2013.5	1962.8	1899.1	1835.5	1788.1
27.5°	1874.3	1910.2	1943.6	1977.0	1955.9	1934.8	1894.0	1853.3	1801.0	1748.8	1702.9
30°	1768.6	1794.4	1819.9	1845.3	1828.2	1811.0	1777.1	1743.3	1700.0	1656.6	1620.1
32.5°	1667.5	1688.0	1711.4	1734.9	1715.7	1696.7	1664.2	1631.8	1597.2	1562.5	1541.0
35°	1581.2	1600.1	1616.7	1633.4	1610.5	1587.6	1555.4	1523.4	1497.0	1470.7	1464.6
37.5°	1507.8	1525.2	1532.9	1540.6	1512.3	1484.0	1451.9	1419.9	1401.0	1382.0	1388.6
40°	1439.0	1453.9	1452.0	1450.2	1417.6	1385.0	1354.0	1323.1	1309.4	1295.8	1310.6
42.5°	1369.7	1382.2	1372.9	1363.5	1328.3	1293.0	1263.7	1234.4	1223.2	1212.1	1231.7
45°	1302.7	1313.9	1300.4	1287.0	1250.5	1214.0	1186.1	1158.4	1148.8	1139.5	1158.6
47.5°	1247.2	1255.0	1239.5	1224.0	1188.0	1152.0	1124.8	1097.6	1088.8	1079.9	1096.0
50°	1208.6	1209.1	1189.1	1169.1	1136.9	1104.6	1079.0	1053.4	1039.6	1025.8	1040.0
52.5°	1183.1	1178.8	1155.2	1131.5	1101.4	1071.3	1047.9	1024.3	1003.7	983.0	997.0
55°	1161.7	1155.9	1130.8	1105.8	1079.4	1053.1	1027.8	1002.3	973.1	943.7	965.9
57.5°	1140.9	1135.0	1109.8	1084.4	1058.3	1032.4	1002.6	972.8	941.2	909.6	942.0
60°	1111.4	1104.9	1079.5	1054.2	1027.7	1001.2	967.1	932.9	905.2	877.5	919.5
62.5°	1065.6	1059.3	1036.1	1012.9	984.6	956.4	916.5	876.7	859.1	841.4	893.9
65°	1003.4	996.9	976.4	956.0	929.0	902.0	859.3	816.5	809.9	803.0	858.8
67.5°	932.6	926.3	908.7	890.9	865.4	839.8	800.3	760.9	763.0	765.2	811.6
70°	856.9	850.9	835.0	819.0	796.8	774.8	740.0	705.4	712.8	720.2	753.2
72.5°	772.3	765.2	749.5	733.9	713.9	693.9	666.7	639.4	650.1	660.9	683.6
75°	672.5	665.0	650.8	636.5	618.5	600.3	580.0	559.8	570.2	580.5	598.0
77.5°	576.5	569.4	554.5	539.6	524.0	508.5	492.0	475.5	486.0	496.4	510.4
80°	465.2	455.9	444.5	433.2	420.1	407.0	393.4	379.7	388.5	397.2	409.0
82.5°	338.4	322.5	298.3	274.1	278.7	283.2	284.4	285.6	291.7	298.0	303.7
85°	205.3	185.7	163.0	140.3	153.0	165.6	171.7	177.5	184.5	191.5	197.6
87.5°	89.6	81.7	72.1	62.6	72.4	82.0	82.2	82.5	83.7	85.1	87.5
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: P964193

CATALOG NUMBER: NAV-SB3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1
2.5°	2109.9	2129.2	2146.7	2164.7	2182.6	2201.5	2220.3	2238.9	2257.7	2275.3	2292.8
5°	2091.2	2125.1	2159.5	2196.0	2232.3	2271.3	2310.2	2349.0	2387.7	2426.6	2465.5
7.5°	2084.4	2128.4	2175.3	2226.1	2276.9	2334.5	2392.2	2451.5	2510.7	2574.8	2639.0
10°	2087.7	2135.0	2192.8	2253.1	2313.1	2383.2	2453.2	2531.4	2609.8	2690.8	2771.9
12.5°	2091.8	2135.8	2196.6	2264.5	2332.6	2415.2	2497.8	2586.5	2675.1	2764.2	2853.3
15°	2074.4	2109.6	2176.9	2255.6	2334.3	2429.5	2524.7	2620.8	2717.1	2809.9	2902.8
17.5°	2021.2	2042.9	2122.2	2216.8	2311.5	2421.9	2532.4	2637.3	2742.3	2836.5	2930.6
20°	1934.5	1940.2	2032.5	2149.7	2267.1	2401.0	2534.8	2650.1	2765.6	2863.4	2961.3
22.5°	1836.1	1824.9	1929.9	2071.1	2212.5	2375.2	2538.1	2667.5	2796.8	2896.9	2996.9
25°	1740.7	1710.3	1817.9	1983.4	2148.9	2349.9	2551.0	2698.9	2846.7	2944.7	3042.7
27.5°	1657.1	1620.3	1718.3	1903.1	2087.9	2332.9	2578.0	2748.0	2918.0	3011.4	3104.8
30°	1583.7	1554.9	1637.1	1836.0	2034.9	2325.0	2615.0	2811.6	3008.2	3098.4	3188.8
32.5°	1519.5	1506.6	1572.9	1778.2	1983.4	2315.2	2646.9	2877.9	3108.9	3198.3	3287.7
35°	1458.8	1464.1	1519.3	1721.3	1923.3	2296.7	2670.2	2953.5	3236.7	3322.4	3408.0
37.5°	1395.1	1414.6	1462.9	1654.4	1845.9	2265.0	2684.2	3038.2	3392.2	3501.3	3610.5
40°	1325.4	1355.3	1399.0	1574.5	1750.0	2221.5	2693.0	3145.7	3598.4	3757.4	3916.5
42.5°	1251.3	1289.0	1329.3	1486.5	1643.5	2176.5	2709.6	3286.4	3863.1	4092.7	4322.3
45°	1177.7	1214.1	1255.0	1392.8	1530.6	2134.7	2738.8	3471.4	4204.0	4513.7	4823.4
47.5°	1112.0	1143.4	1196.2	1318.8	1441.5	2100.1	2758.8	3668.6	4578.4	5014.3	5450.1
50°	1054.2	1090.6	1160.0	1269.6	1379.2	2062.5	2745.7	3851.5	4957.3	5614.4	6271.6
52.5°	1011.1	1062.0	1141.7	1237.2	1332.8	1998.9	2665.1	3970.3	5275.5	6244.9	7214.5
55°	988.2	1064.8	1139.0	1213.7	1288.4	1893.5	2498.6	3944.1	5389.6	6803.8	8218.3
57.5°	974.4	1067.6	1133.1	1185.9	1238.7	1745.0	2251.1	3759.9	5268.7	7200.0	9131.3
60°	961.4	1058.7	1101.9	1143.4	1184.8	1552.1	1919.2	3417.0	4914.8	7299.0	9683.2
62.5°	946.5	1036.6	1041.9	1069.4	1097.0	1321.1	1545.3	2953.3	4361.4	6882.2	9402.9
65°	914.7	983.4	982.8	995.8	1008.8	1113.5	1218.1	2480.3	3742.6	6292.4	8842.2
67.5°	858.0	896.7	898.5	891.3	884.0	913.8	943.5	2016.9	3090.3	5590.5	8090.6
70°	786.3	798.9	798.9	765.3	731.5	723.1	714.6	1588.0	2461.4	4824.6	7187.8
72.5°	706.2	706.0	698.0	650.4	602.6	576.9	551.2	1214.0	1876.9	3994.3	6112.0
75°	615.4	618.5	581.6	528.1	474.6	451.3	428.0	881.2	1334.2	3042.6	4751.0
77.5°	524.4	526.0	465.1	413.2	361.2	345.3	329.5	597.1	864.6	2129.5	3394.5
80°	420.7	421.0	348.1	304.2	260.1	253.6	247.1	384.7	522.3	1372.1	2221.7
82.5°	309.4	306.0	243.8	211.5	179.0	177.7	176.6	236.6	296.8	794.1	1291.4
85°	203.8	199.3	153.0	129.3	105.6	106.2	106.8	126.5	146.3	357.2	568.2
87.5°	90.0	84.3	65.1	55.4	45.6	46.2	46.8	52.5	58.1	117.0	175.9
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: P964193

CATALOG NUMBER: NAV-SB3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1
2.5°	2301.5	2310.2	2322.6	2335.0	2342.3	2349.7	2353.4	2357.1	2355.4	2357.1	2353.4
5°	2495.9	2526.3	2556.4	2586.6	2603.0	2619.3	2629.2	2639.2	2646.8	2639.2	2629.2
7.5°	2688.4	2737.7	2782.2	2826.5	2853.3	2880.0	2894.5	2909.0	2915.9	2909.0	2894.5
10°	2830.3	2888.8	2940.8	2993.0	3024.6	3055.9	3070.0	3084.0	3089.4	3084.0	3070.0
12.5°	2916.6	2979.9	3027.0	3074.0	3096.8	3119.8	3127.5	3135.2	3136.0	3135.2	3127.5
15°	2957.4	3012.1	3041.6	3071.2	3072.0	3072.8	3064.6	3056.4	3046.8	3056.4	3064.6
17.5°	2967.5	3004.4	3005.0	3005.5	2972.3	2939.2	2908.8	2878.4	2857.0	2878.4	2908.8
20°	2974.1	2987.1	2948.2	2909.4	2836.2	2763.1	2709.8	2656.5	2623.8	2656.5	2709.8
22.5°	2980.0	2963.2	2882.7	2802.1	2694.6	2587.0	2520.4	2453.7	2417.7	2453.7	2520.4
25°	2989.5	2936.3	2814.1	2691.9	2561.2	2430.6	2360.5	2290.7	2256.4	2290.7	2360.5
27.5°	3009.8	2914.7	2752.7	2590.9	2446.1	2301.3	2232.4	2163.6	2131.3	2163.6	2232.4
30°	3046.9	2905.3	2705.9	2506.6	2355.8	2204.9	2141.0	2077.2	2047.0	2077.2	2141.0
32.5°	3093.6	2899.5	2674.0	2448.5	2306.8	2165.0	2114.9	2064.6	2042.9	2064.6	2114.9
35°	3170.4	2932.9	2697.9	2463.1	2364.6	2266.1	2254.4	2242.7	2241.0	2242.7	2254.4
37.5°	3331.0	3051.5	2838.0	2624.4	2618.1	2611.7	2665.2	2718.7	2746.5	2718.7	2665.2
40°	3612.5	3308.6	3149.8	2991.0	3103.1	3215.1	3345.3	3475.4	3540.1	3475.4	3345.3
42.5°	4020.7	3719.1	3627.7	3536.2	3780.7	4025.2	4261.7	4498.3	4637.3	4498.3	4261.7
45°	4552.5	4281.5	4241.2	4200.8	4592.4	4984.2	5372.9	5761.8	5997.9	5761.8	5372.9
47.5°	5186.6	4923.0	4914.8	4906.6	5471.7	6036.4	6605.6	7174.8	7508.9	7174.8	6605.6
50°	5946.0	5620.5	5621.9	5623.3	6351.4	7079.6	7830.9	8582.2	9036.4	8582.2	7830.9
52.5°	6820.2	6426.1	6386.3	6346.4	7216.1	8085.9	9015.5	9945.0	10489.4	9945.0	9015.5
55°	7828.8	7439.4	7284.1	7128.7	8096.7	9064.7	10172.8	11281.0	11928.6	11281.0	10172.8
57.5°	8919.2	8707.2	8395.5	8084.0	9061.4	10038.8	11294.1	12549.2	13352.2	12549.2	11294.1
60°	10012.6	10342.0	9955.1	9568.1	10493.1	11418.1	12762.0	14105.8	14973.7	14105.8	12762.0
62.5°	10303.0	11203.0	11159.5	11115.8	11963.1	12810.6	14089.1	15367.7	16169.9	15367.7	14089.1
65°	9686.9	10531.6	10698.7	10865.8	11942.7	13019.7	14259.4	15499.1	16182.2	15499.1	14259.4
67.5°	8894.1	9697.5	9775.9	9854.1	10976.2	12098.1	13343.2	14588.4	15123.5	14588.4	13343.2
70°	8061.7	8935.6	8970.7	9005.8	10009.1	11012.4	12083.9	13155.5	13452.8	13155.5	12083.9
72.5°	7114.8	8117.7	8142.9	8168.0	8953.0	9738.0	10540.5	11343.0	11373.1	11343.0	10540.5
75°	5788.9	6826.8	6920.0	7013.2	7623.9	8234.6	8799.6	9364.5	9213.2	9364.5	8799.6
77.5°	4363.3	5332.3	5465.6	5599.0	6063.3	6527.6	6928.3	7329.0	7068.8	7329.0	6928.3
80°	3036.8	3851.8	4017.6	4183.3	4534.0	4884.5	5095.0	5305.3	4886.8	5305.3	5095.0
82.5°	1848.7	2406.0	2591.2	2776.4	3017.7	3259.1	3346.9	3434.6	3105.6	3434.6	3346.9
85°	864.0	1159.7	1317.2	1474.7	1673.0	1871.2	1921.1	1970.9	1707.4	1970.9	1921.1
87.5°	275.3	374.7	462.6	550.4	649.6	748.8	753.1	757.2	635.7	757.2	753.1
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: P964193

CATALOG NUMBER: NAV-SB3B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1
2.5°	2349.7	2342.3	2335.0	2322.6	2310.2	2301.5	2292.8
5°	2619.3	2603.0	2586.6	2556.4	2526.3	2495.9	2465.5
7.5°	2880.0	2853.3	2826.5	2782.2	2737.7	2688.4	2639.0
10°	3055.9	3024.6	2993.0	2940.8	2888.8	2830.3	2771.9
12.5°	3119.8	3096.8	3074.0	3027.0	2979.9	2916.6	2853.3
15°	3072.8	3072.0	3071.2	3041.6	3012.1	2957.4	2902.8
17.5°	2939.2	2972.3	3005.5	3005.0	3004.4	2967.5	2930.6
20°	2763.1	2836.2	2909.4	2948.2	2987.1	2974.1	2961.3
22.5°	2587.0	2694.6	2802.1	2882.7	2963.2	2980.0	2996.9
25°	2430.6	2561.2	2691.9	2814.1	2936.3	2989.5	3042.7
27.5°	2301.3	2446.1	2590.9	2752.7	2914.7	3009.8	3104.8
30°	2204.9	2355.8	2506.6	2705.9	2905.3	3046.9	3188.8
32.5°	2165.0	2306.8	2448.5	2674.0	2899.5	3093.6	3287.7
35°	2266.1	2364.6	2463.1	2697.9	2932.9	3170.4	3408.0
37.5°	2611.7	2618.1	2624.4	2838.0	3051.5	3331.0	3610.5
40°	3215.1	3103.1	2991.0	3149.8	3308.6	3612.5	3916.5
42.5°	4025.2	3780.7	3536.2	3627.7	3719.1	4020.7	4322.3
45°	4984.2	4592.4	4200.8	4241.2	4281.5	4552.5	4823.4
47.5°	6036.4	5471.7	4906.6	4914.8	4923.0	5186.6	5450.1
50°	7079.6	6351.4	5623.3	5621.9	5620.5	5946.0	6271.6
52.5°	8085.9	7216.1	6346.4	6386.3	6426.1	6820.2	7214.5
55°	9064.7	8096.7	7128.7	7284.1	7439.4	7828.8	8218.3
57.5°	10038.8	9061.4	8084.0	8395.5	8707.2	8919.2	9131.3
60°	11418.1	10493.1	9568.1	9955.1	10342.0	10012.6	9683.2
62.5°	12810.6	11963.1	11115.8	11159.5	11203.0	10303.0	9402.9
65°	13019.7	11942.7	10865.8	10698.7	10531.6	9686.9	8842.2
67.5°	12098.1	10976.2	9854.1	9775.9	9697.5	8894.1	8090.6
70°	11012.4	10009.1	9005.8	8970.7	8935.6	8061.7	7187.8
72.5°	9738.0	8953.0	8168.0	8142.9	8117.7	7114.8	6112.0
75°	8234.6	7623.9	7013.2	6920.0	6826.8	5788.9	4751.0
77.5°	6527.6	6063.3	5599.0	5465.6	5332.3	4363.3	3394.5
80°	4884.5	4534.0	4183.3	4017.6	3851.8	3036.8	2221.7
82.5°	3259.1	3017.7	2776.4	2591.2	2406.0	1848.7	1291.4
85°	1871.2	1673.0	1474.7	1317.2	1159.7	864.0	568.2
87.5°	748.8	649.6	550.4	462.6	374.7	275.3	175.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)