

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: P966270

Luminaire Tested: **NAV-SB4B-827-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966270
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-SB4B-827-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20042.8 lumens
Efficiency: N/A
Efficacy: 136.3 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): 147
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



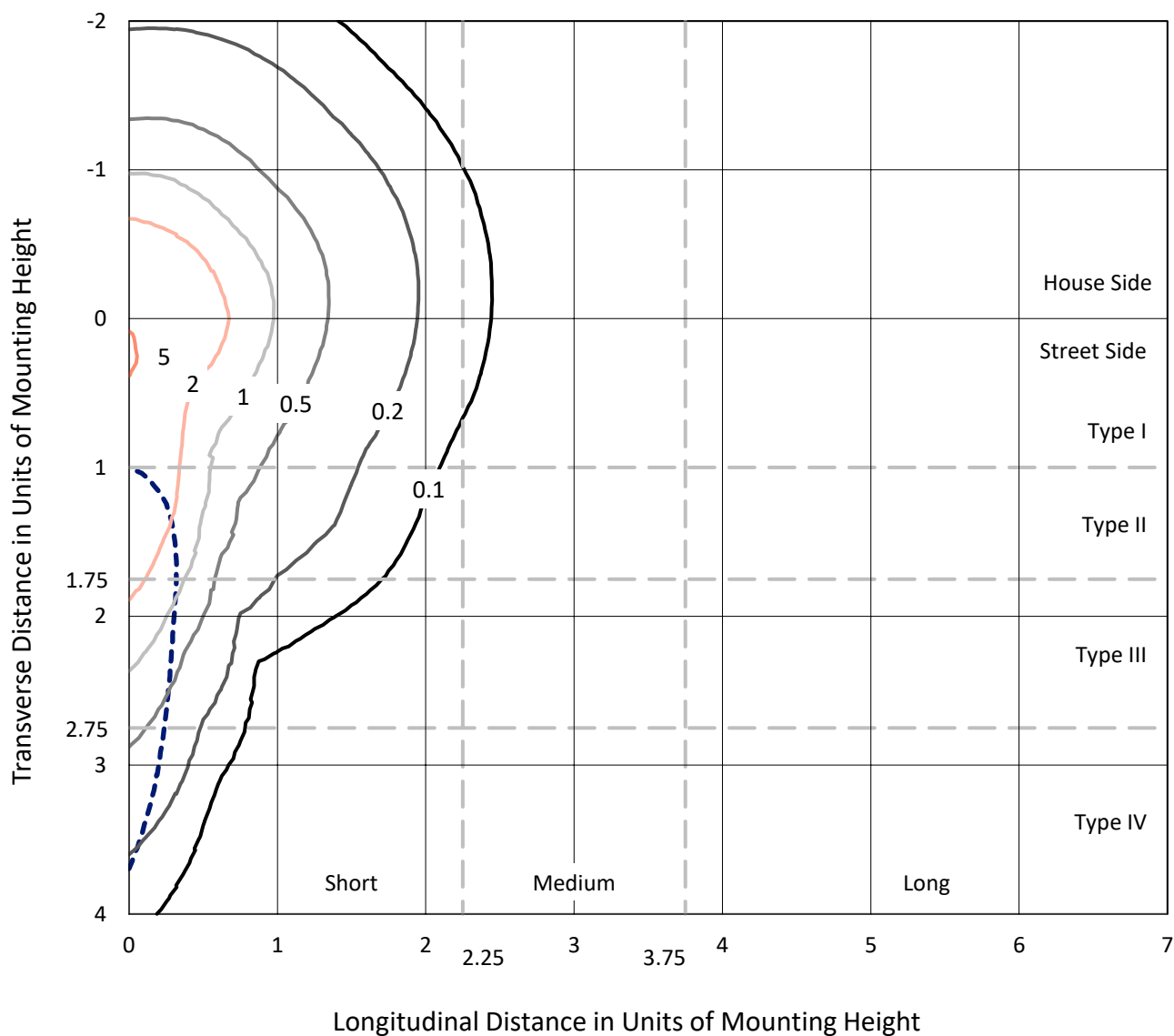
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

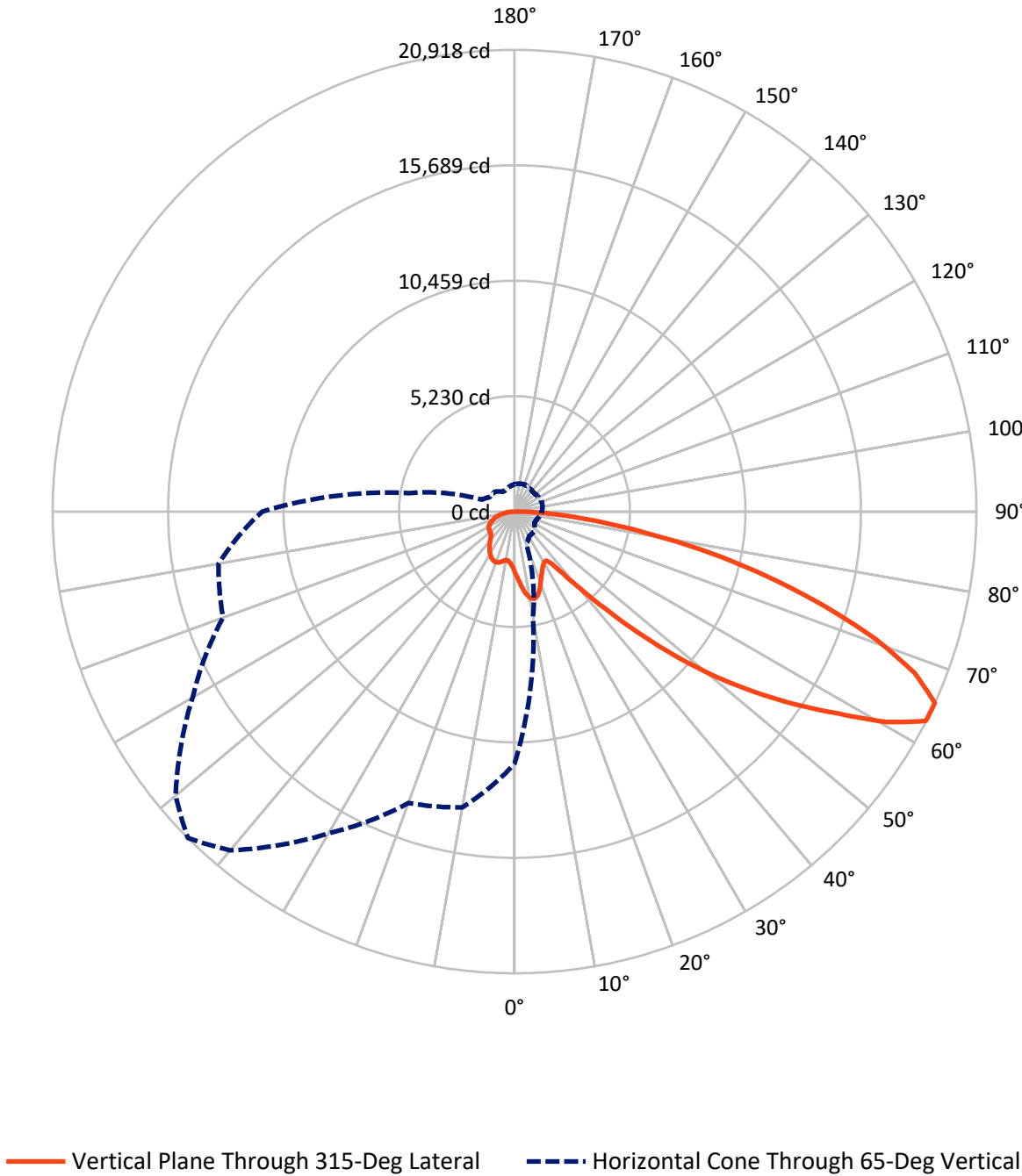


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc

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	5093.9	0.0	5093.9
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	14949.0	0.0	14949.0
	% Fixture	74.6	0.0	74.6
Total	Lumens	20042.8	0.0	20042.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.4	1.4
10°-20°	858.3	4.3
20°-30°	1325.7	6.6
30°-40°	1680.0	8.4
40°-50°	2533.9	12.6
50°-60°	4093.9	20.4
60°-70°	5103.6	25.5
70°-80°	3346.7	16.7
80°-90°	827.4	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°	20042.8	100.0
0°-180°	20042.8	100.0

Coefficient of Utilization



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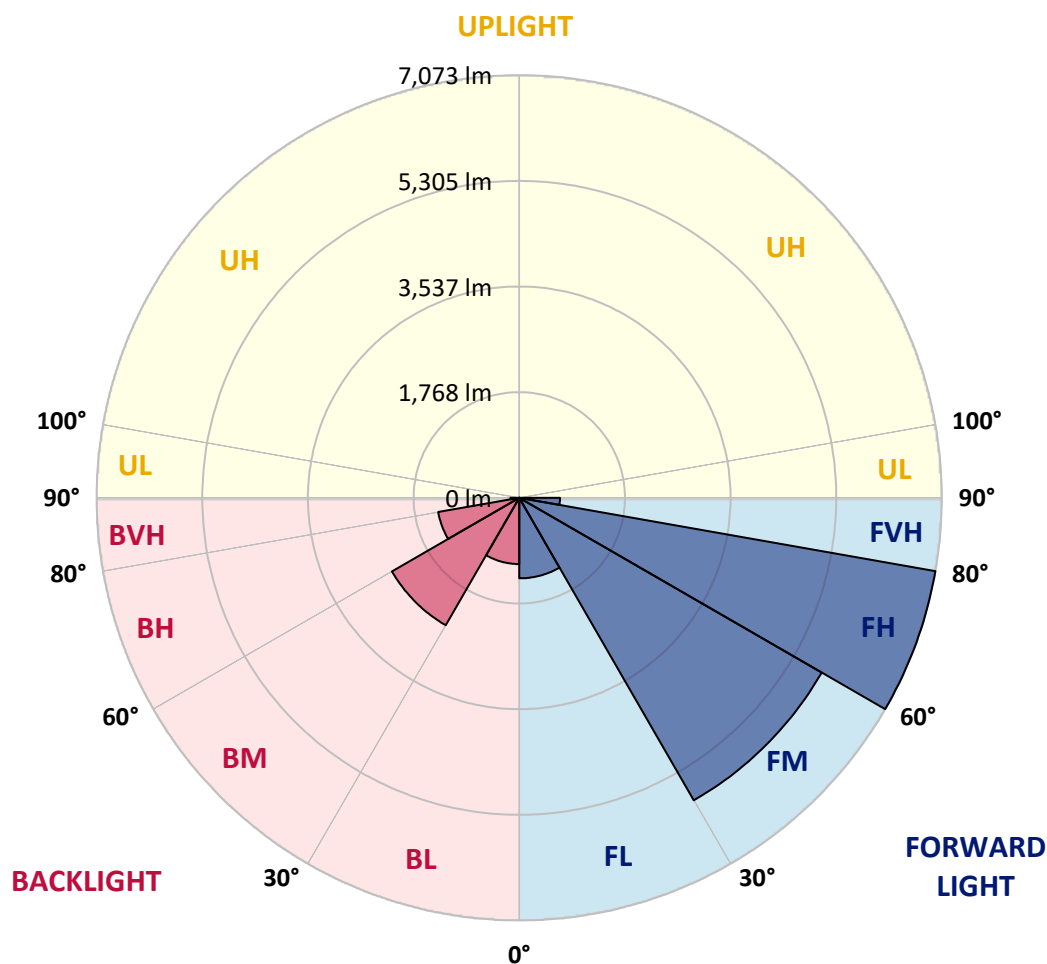
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1348.1	6.7			
FM	(30°-60°)	5846.1	29.2			
FH	(60°-80°)	7073.2	35.3			G3/7500
FVH	(80°-90°)	681.6	3.4			G4/750
BL	(0°-30°)	1109.3	5.5	B3/2500		
BM	(30°-60°)	2461.7	12.3	B2/2500		
BH	(60°-80°)	1377.1	6.9	B3/2500		G3/2500
BVH	(80°-90°)	145.8	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°	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0
2.5°	2963.9	2941.1	2918.4	2894.2	2870.1	2845.7	2821.4	2798.1	2774.9	2752.3	2727.3
5°	3187.0	3136.8	3086.6	3036.5	2986.4	2936.0	2885.6	2838.5	2791.5	2747.1	2703.2
7.5°	3411.2	3328.3	3245.6	3169.0	3092.4	3017.8	2943.3	2877.6	2811.9	2751.3	2694.5
10°	3583.1	3478.3	3373.5	3272.3	3171.1	3080.6	2990.0	2912.3	2834.5	2759.8	2698.7
12.5°	3688.4	3573.2	3458.0	3343.4	3228.9	3121.9	3015.1	2927.3	2839.4	2760.8	2704.1
15°	3752.3	3632.3	3512.3	3387.8	3263.5	3140.5	3017.5	2915.7	2814.0	2727.0	2681.5
17.5°	3788.3	3666.5	3544.9	3409.2	3273.4	3130.7	2987.9	2865.5	2743.2	2640.8	2612.7
20°	3828.0	3701.5	3574.9	3425.8	3276.6	3103.6	2930.6	2778.9	2627.3	2508.1	2500.7
22.5°	3873.9	3744.7	3615.4	3448.1	3280.8	3070.4	2860.0	2677.3	2494.6	2358.9	2373.4
25°	3933.1	3806.4	3679.9	3488.8	3297.5	3037.6	2777.7	2563.8	2349.9	2210.9	2250.0
27.5°	4013.5	3892.7	3771.9	3552.2	3332.5	3015.7	2698.9	2460.0	2221.2	2094.6	2142.1
30°	4121.9	4005.2	3888.5	3634.3	3380.2	3005.4	2630.5	2373.3	2116.2	2009.9	2047.2
32.5°	4249.9	4134.3	4018.8	3720.1	3421.4	2992.8	2563.8	2298.6	2033.2	1947.5	1964.1
35°	4405.3	4294.8	4184.0	3817.9	3451.8	2968.8	2486.1	2225.1	1963.9	1892.6	1885.7
37.5°	4667.1	4526.0	4385.0	3927.4	3469.7	2927.9	2386.1	2138.6	1890.9	1828.6	1803.4
40°	5062.7	4857.1	4651.4	4066.3	3481.0	2871.5	2262.2	2035.3	1808.5	1751.9	1713.3
42.5°	5587.2	5290.4	4993.7	4248.1	3502.5	2813.4	2124.5	1921.5	1718.4	1666.2	1617.6
45°	6235.0	5834.7	5434.4	4487.3	3540.2	2759.3	1978.6	1800.4	1622.4	1569.5	1522.4
47.5°	7045.1	6481.7	5918.2	4742.2	3566.2	2714.7	1863.2	1704.7	1546.2	1477.9	1437.5
50°	8106.9	7257.6	6408.1	4978.7	3549.3	2666.0	1782.9	1641.1	1499.5	1409.8	1362.7
52.5°	9325.8	8072.5	6819.3	5132.3	3445.1	2583.9	1722.8	1599.3	1475.9	1372.8	1307.0
55°	10623.4	8795.1	6966.8	5098.5	3229.9	2447.7	1665.5	1569.0	1472.4	1376.5	1277.4
57.5°	11803.7	9307.2	6810.6	4860.2	2910.0	2255.6	1601.2	1533.0	1464.7	1380.2	1259.6
60°	12517.0	9435.1	6353.2	4417.0	2480.9	2006.2	1531.6	1477.9	1424.3	1368.5	1242.9
62.5°	12154.9	8896.3	5637.8	3817.7	1997.5	1707.8	1418.0	1382.4	1346.8	1340.0	1223.4
65°	11429.9	8133.9	4837.9	3206.2	1574.5	1439.3	1304.0	1287.2	1270.4	1271.2	1182.3
67.5°	10458.5	7226.6	3994.7	2607.2	1219.6	1181.2	1142.7	1152.1	1161.4	1159.1	1109.2
70°	9291.4	6236.6	3181.7	2052.8	923.8	934.8	945.7	989.2	1032.7	1032.7	1016.3
72.5°	7900.7	5163.3	2426.1	1569.4	712.6	745.7	778.9	840.7	902.3	912.7	912.9
75°	6141.4	3933.0	1724.7	1139.0	553.3	583.3	613.4	682.5	751.7	799.5	795.5
77.5°	4387.9	2752.7	1117.7	771.8	426.0	446.4	466.9	534.1	601.3	680.0	677.9
80°	2871.8	1773.6	675.3	497.2	319.4	327.9	336.3	393.2	450.0	544.2	543.8
82.5°	1669.4	1026.5	383.7	305.9	228.3	229.7	231.4	273.3	315.2	395.5	400.0
85°	734.5	461.8	189.1	163.5	138.0	137.2	136.4	167.1	197.7	257.5	263.3
87.5°	227.3	151.2	75.1	67.8	60.5	59.8	59.0	71.4	84.0	109.0	116.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0
2.5°	2707.0	2686.8	2668.5	2650.3	2634.4	2618.4	2602.3	2586.3	2574.0	2561.5	2551.4
5°	2664.9	2626.5	2594.4	2562.3	2534.0	2505.6	2479.9	2454.2	2434.4	2414.5	2400.7
7.5°	2643.6	2592.6	2550.4	2508.1	2472.4	2436.6	2405.2	2373.8	2350.1	2326.6	2310.1
10°	2645.0	2591.3	2549.0	2506.6	2468.3	2429.8	2394.4	2358.9	2330.8	2302.6	2284.2
12.5°	2660.1	2616.2	2588.1	2560.2	2529.9	2499.9	2463.2	2426.6	2390.7	2354.7	2331.0
15°	2660.5	2639.5	2643.4	2647.2	2639.3	2631.5	2599.6	2567.8	2516.6	2465.4	2429.2
17.5°	2620.5	2628.1	2674.2	2720.4	2744.8	2769.2	2743.6	2718.0	2650.2	2582.4	2529.1
20°	2536.6	2572.5	2652.6	2732.8	2784.1	2835.4	2823.6	2811.6	2734.1	2656.7	2591.3
22.5°	2426.6	2479.8	2571.2	2662.7	2729.5	2796.3	2803.5	2810.5	2736.5	2662.4	2595.2
25°	2311.4	2372.7	2454.9	2537.2	2602.8	2668.5	2693.0	2717.5	2656.8	2596.1	2536.3
27.5°	2201.4	2260.6	2328.2	2395.6	2448.3	2501.0	2528.3	2555.6	2512.4	2469.2	2422.8
30°	2094.2	2141.4	2197.5	2253.5	2297.1	2341.0	2363.1	2385.4	2352.5	2319.5	2286.3
32.5°	1992.0	2019.8	2064.6	2109.3	2151.3	2193.2	2217.9	2242.6	2212.4	2182.0	2155.5
35°	1893.3	1901.0	1935.2	1969.2	2010.6	2052.3	2081.9	2111.5	2089.9	2068.4	2043.8
37.5°	1795.0	1786.5	1811.0	1835.5	1876.8	1918.3	1954.9	1991.5	1981.5	1971.6	1949.0
40°	1694.1	1675.0	1692.7	1710.3	1750.3	1790.3	1832.4	1874.5	1877.0	1879.3	1860.2
42.5°	1592.2	1566.8	1581.2	1595.7	1633.5	1671.5	1717.0	1762.5	1774.6	1786.8	1770.6
45°	1497.6	1473.0	1485.0	1497.3	1533.3	1569.3	1616.4	1663.6	1681.0	1698.5	1683.9
47.5°	1416.8	1396.0	1407.4	1418.7	1454.0	1489.1	1535.7	1582.2	1602.3	1622.4	1612.2
50°	1344.3	1326.0	1343.8	1361.6	1394.8	1427.9	1469.6	1511.3	1537.1	1562.9	1562.3
52.5°	1288.7	1270.7	1297.4	1324.1	1354.5	1384.9	1423.7	1462.7	1493.2	1523.8	1529.3
55°	1248.6	1220.0	1257.9	1295.7	1328.5	1361.3	1395.3	1429.4	1461.6	1494.1	1501.7
57.5°	1217.7	1175.8	1216.7	1257.5	1296.0	1334.4	1368.1	1401.8	1434.5	1467.1	1474.8
60°	1188.6	1134.3	1170.1	1205.8	1250.1	1294.3	1328.4	1362.7	1395.4	1428.2	1436.7
62.5°	1155.5	1087.7	1110.5	1133.2	1184.7	1236.4	1272.8	1309.3	1339.4	1369.4	1377.5
65°	1110.3	1038.0	1046.8	1055.4	1110.7	1165.9	1200.9	1235.7	1262.2	1288.6	1297.0
67.5°	1049.1	989.0	986.3	983.6	1034.5	1085.6	1118.7	1151.7	1174.5	1197.4	1205.5
70°	973.6	930.9	921.4	911.8	956.7	1001.5	1030.1	1058.6	1079.2	1099.9	1107.7
72.5°	883.7	854.3	840.4	826.5	861.8	897.1	922.8	948.6	968.8	989.0	998.4
75°	773.0	750.4	737.1	723.6	749.8	776.0	799.4	822.8	841.2	859.6	869.3
77.5°	659.8	641.8	628.2	614.7	636.0	657.3	677.4	697.5	716.8	736.1	745.2
80°	528.7	513.4	502.1	490.8	508.5	526.1	543.0	560.0	574.7	589.3	601.4
82.5°	392.6	385.2	377.1	369.1	367.7	366.1	360.2	354.2	385.6	416.9	437.4
85°	255.4	247.4	238.5	229.5	221.9	214.1	197.7	181.4	210.6	240.1	265.5
87.5°	113.2	110.0	108.3	106.6	106.3	106.0	93.5	80.9	93.2	105.6	115.8
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°	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0
2.5°	2541.4	2533.6	2525.7	2518.5	2511.2	2502.2	2511.2	2518.5	2525.7	2533.6	2541.4
5°	2386.7	2376.9	2367.1	2359.5	2352.1	2344.7	2352.1	2359.5	2367.1	2376.9	2386.7
7.5°	2293.6	2282.4	2271.2	2264.4	2257.8	2252.6	2257.8	2264.4	2271.2	2282.4	2293.6
10°	2265.6	2254.9	2244.2	2238.5	2232.8	2230.4	2232.8	2238.5	2244.2	2254.9	2265.6
12.5°	2307.1	2295.2	2283.3	2278.5	2273.6	2272.7	2273.6	2278.5	2283.3	2295.2	2307.1
15°	2393.1	2376.5	2360.0	2353.6	2347.4	2346.7	2347.4	2353.6	2360.0	2376.5	2393.1
17.5°	2475.8	2451.3	2426.6	2418.6	2410.5	2409.2	2410.5	2418.6	2426.6	2451.3	2475.8
20°	2526.0	2494.6	2463.1	2453.0	2443.0	2439.8	2443.0	2453.0	2463.1	2494.6	2526.0
22.5°	2527.9	2494.7	2461.5	2450.5	2439.3	2434.6	2439.3	2450.5	2461.5	2494.7	2527.9
25°	2476.6	2447.9	2419.2	2408.8	2398.4	2392.2	2398.4	2408.8	2419.2	2447.9	2476.6
27.5°	2376.4	2357.2	2337.8	2333.0	2328.3	2326.6	2328.3	2333.0	2337.8	2357.2	2376.4
30°	2252.8	2243.0	2233.1	2233.1	2233.1	2234.7	2233.1	2233.1	2233.1	2243.0	2252.8
32.5°	2128.9	2122.5	2116.0	2116.8	2117.9	2119.4	2117.9	2116.8	2116.0	2122.5	2128.9
35°	2019.5	2009.6	1999.9	1997.8	1995.7	1994.6	1995.7	1997.8	1999.9	2009.6	2019.5
37.5°	1926.4	1908.5	1890.7	1881.4	1872.0	1866.6	1872.0	1881.4	1890.7	1908.5	1926.4
40°	1841.0	1815.1	1789.2	1771.7	1754.3	1743.9	1754.3	1771.7	1789.2	1815.1	1841.0
42.5°	1754.5	1722.3	1690.0	1664.5	1639.1	1622.4	1639.1	1664.5	1690.0	1722.3	1754.5
45°	1669.4	1632.5	1595.7	1565.8	1535.9	1516.6	1535.9	1565.8	1595.7	1632.5	1669.4
47.5°	1602.1	1569.3	1536.5	1508.8	1481.1	1462.7	1481.1	1508.8	1536.5	1569.3	1602.1
50°	1561.8	1535.7	1509.4	1483.8	1458.2	1440.4	1458.2	1483.8	1509.4	1535.7	1561.8
52.5°	1534.7	1513.4	1492.0	1469.1	1446.3	1429.9	1446.3	1469.1	1492.0	1513.4	1534.7
55°	1509.4	1490.8	1472.2	1452.0	1431.9	1417.2	1431.9	1452.0	1472.2	1490.8	1509.4
57.5°	1482.6	1463.7	1444.8	1425.0	1405.0	1389.7	1405.0	1425.0	1444.8	1463.7	1482.6
60°	1445.1	1426.8	1408.5	1388.0	1367.5	1351.6	1367.5	1388.0	1408.5	1426.8	1445.1
62.5°	1385.7	1369.1	1352.5	1330.9	1309.3	1290.3	1309.3	1330.9	1352.5	1369.1	1385.7
65°	1305.2	1289.3	1273.4	1252.3	1231.5	1215.1	1231.5	1252.3	1273.4	1289.3	1305.2
67.5°	1213.6	1198.8	1184.3	1164.8	1145.3	1130.6	1145.3	1164.8	1184.3	1198.8	1213.6
70°	1115.5	1103.6	1091.6	1073.1	1054.4	1037.5	1054.4	1073.1	1091.6	1103.6	1115.5
72.5°	1007.7	997.7	987.8	970.1	952.3	935.9	952.3	970.1	987.8	997.7	1007.7
75°	879.0	874.2	869.3	854.4	839.5	823.9	839.5	854.4	869.3	874.2	879.0
77.5°	754.3	747.5	740.6	725.5	710.5	698.0	710.5	725.5	740.6	747.5	754.3
80°	613.4	610.4	607.6	587.4	567.0	543.6	567.0	587.4	607.6	610.4	613.4
82.5°	458.0	456.6	455.3	438.3	421.2	406.1	421.2	438.3	455.3	456.6	458.0
85°	290.8	288.7	286.6	273.3	259.9	246.4	259.9	273.3	286.6	288.7	290.8
87.5°	126.1	123.5	120.7	114.0	107.0	100.4	107.0	114.0	120.7	123.5	126.1
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: P966270

CATALOG NUMBER: NAV-SB4B-827-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0
2.5°	2551.4	2561.5	2574.0	2586.3	2602.3	2618.4	2634.4	2650.3	2668.5	2686.8	2707.0
5°	2400.7	2414.5	2434.4	2454.2	2479.9	2505.6	2534.0	2562.3	2594.4	2626.5	2664.9
7.5°	2310.1	2326.6	2350.1	2373.8	2405.2	2436.6	2472.4	2508.1	2550.4	2592.6	2643.6
10°	2284.2	2302.6	2330.8	2358.9	2394.4	2429.8	2468.3	2506.6	2549.0	2591.3	2645.0
12.5°	2331.0	2354.7	2390.7	2426.6	2463.2	2499.9	2529.9	2560.2	2588.1	2616.2	2660.1
15°	2429.2	2465.4	2516.6	2567.8	2599.6	2631.5	2639.3	2647.2	2643.4	2639.5	2660.5
17.5°	2529.1	2582.4	2650.2	2718.0	2743.6	2769.2	2744.8	2720.4	2674.2	2628.1	2620.5
20°	2591.3	2656.7	2734.1	2811.6	2823.6	2835.4	2784.1	2732.8	2652.6	2572.5	2536.6
22.5°	2595.2	2662.4	2736.5	2810.5	2803.5	2796.3	2729.5	2662.7	2571.2	2479.8	2426.6
25°	2536.3	2596.1	2656.8	2717.5	2693.0	2668.5	2602.8	2537.2	2454.9	2372.7	2311.4
27.5°	2422.8	2469.2	2512.4	2555.6	2528.3	2501.0	2448.3	2395.6	2328.2	2260.6	2201.4
30°	2286.3	2319.5	2352.5	2385.4	2363.1	2341.0	2297.1	2253.5	2197.5	2141.4	2094.2
32.5°	2155.5	2182.0	2212.4	2242.6	2217.9	2193.2	2151.3	2109.3	2064.6	2019.8	1992.0
35°	2043.8	2068.4	2089.9	2111.5	2081.9	2052.3	2010.6	1969.2	1935.2	1901.0	1893.3
37.5°	1949.0	1971.6	1981.5	1991.5	1954.9	1918.3	1876.8	1835.5	1811.0	1786.5	1795.0
40°	1860.2	1879.3	1877.0	1874.5	1832.4	1790.3	1750.3	1710.3	1692.7	1675.0	1694.1
42.5°	1770.6	1786.8	1774.6	1762.5	1717.0	1671.5	1633.5	1595.7	1581.2	1566.8	1592.2
45°	1683.9	1698.5	1681.0	1663.6	1616.4	1569.3	1533.3	1497.3	1485.0	1473.0	1497.6
47.5°	1612.2	1622.4	1602.3	1582.2	1535.7	1489.1	1454.0	1418.7	1407.4	1396.0	1416.8
50°	1562.3	1562.9	1537.1	1511.3	1469.6	1427.9	1394.8	1361.6	1343.8	1326.0	1344.3
52.5°	1529.3	1523.8	1493.2	1462.7	1423.7	1384.9	1354.5	1324.1	1297.4	1270.7	1288.7
55°	1501.7	1494.1	1461.6	1429.4	1395.3	1361.3	1328.5	1295.7	1257.9	1220.0	1248.6
57.5°	1474.8	1467.1	1434.5	1401.8	1368.1	1334.4	1296.0	1257.5	1216.7	1175.8	1217.7
60°	1436.7	1428.2	1395.4	1362.7	1328.4	1294.3	1250.1	1205.8	1170.1	1134.3	1188.6
62.5°	1377.5	1369.4	1339.4	1309.3	1272.8	1236.4	1184.7	1133.2	1110.5	1087.7	1155.5
65°	1297.0	1288.6	1262.2	1235.7	1200.9	1165.9	1110.7	1055.4	1046.8	1038.0	1110.3
67.5°	1205.5	1197.4	1174.5	1151.7	1118.7	1085.6	1034.5	983.6	986.3	989.0	1049.1
70°	1107.7	1099.9	1079.2	1058.6	1030.1	1001.5	956.7	911.8	921.4	930.9	973.6
72.5°	998.4	989.0	968.8	948.6	922.8	897.1	861.8	826.5	840.4	854.3	883.7
75°	869.3	859.6	841.2	822.8	799.4	776.0	749.8	723.6	737.1	750.4	773.0
77.5°	745.2	736.1	716.8	697.5	677.4	657.3	636.0	614.7	628.2	641.8	659.8
80°	601.4	589.3	574.7	560.0	543.0	526.1	508.5	490.8	502.1	513.4	528.7
82.5°	437.4	416.9	385.6	354.2	360.2	366.1	367.7	369.1	377.1	385.2	392.6
85°	265.5	240.1	210.6	181.4	197.7	214.1	221.9	229.5	238.5	247.4	255.4
87.5°	115.8	105.6	93.2	80.9	93.5	106.0	106.3	106.6	108.3	110.0	113.2
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: P966270

CATALOG NUMBER: NAV-SB4B-827-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0
2.5°	2727.3	2752.3	2774.9	2798.1	2821.4	2845.7	2870.1	2894.2	2918.4	2941.1	2963.9
5°	2703.2	2747.1	2791.5	2838.5	2885.6	2936.0	2986.4	3036.5	3086.6	3136.8	3187.0
7.5°	2694.5	2751.3	2811.9	2877.6	2943.3	3017.8	3092.4	3169.0	3245.6	3328.3	3411.2
10°	2698.7	2759.8	2834.5	2912.3	2990.0	3080.6	3171.1	3272.3	3373.5	3478.3	3583.1
12.5°	2704.1	2760.8	2839.4	2927.3	3015.1	3121.9	3228.9	3343.4	3458.0	3573.2	3688.4
15°	2681.5	2727.0	2814.0	2915.7	3017.5	3140.5	3263.5	3387.8	3512.3	3632.3	3752.3
17.5°	2612.7	2640.8	2743.2	2865.5	2987.9	3130.7	3273.4	3409.2	3544.9	3666.5	3788.3
20°	2500.7	2508.1	2627.3	2778.9	2930.6	3103.6	3276.6	3425.8	3574.9	3701.5	3828.0
22.5°	2373.4	2358.9	2494.6	2677.3	2860.0	3070.4	3280.8	3448.1	3615.4	3744.7	3873.9
25°	2250.0	2210.9	2349.9	2563.8	2777.7	3037.6	3297.5	3488.8	3679.9	3806.4	3933.1
27.5°	2142.1	2094.6	2221.2	2460.0	2698.9	3015.7	3332.5	3552.2	3771.9	3892.7	4013.5
30°	2047.2	2009.9	2116.2	2373.3	2630.5	3005.4	3380.2	3634.3	3888.5	4005.2	4121.9
32.5°	1964.1	1947.5	2033.2	2298.6	2563.8	2992.8	3421.4	3720.1	4018.8	4134.3	4249.9
35°	1885.7	1892.6	1963.9	2225.1	2486.1	2968.8	3451.8	3817.9	4184.0	4294.8	4405.3
37.5°	1803.4	1828.6	1890.9	2138.6	2386.1	2927.9	3469.7	3927.4	4385.0	4526.0	4667.1
40°	1713.3	1751.9	1808.5	2035.3	2262.2	2871.5	3481.0	4066.3	4651.4	4857.1	5062.7
42.5°	1617.6	1666.2	1718.4	1921.5	2124.5	2813.4	3502.5	4248.1	4993.7	5290.4	5587.2
45°	1522.4	1569.5	1622.4	1800.4	1978.6	2759.3	3540.2	4487.3	5434.4	5834.7	6235.0
47.5°	1437.5	1477.9	1546.2	1704.7	1863.2	2714.7	3566.2	4742.2	5918.2	6481.7	7045.1
50°	1362.7	1409.8	1499.5	1641.1	1782.9	2666.0	3549.3	4978.7	6408.1	7257.6	8106.9
52.5°	1307.0	1372.8	1475.9	1599.3	1722.8	2583.9	3445.1	5132.3	6819.3	8072.5	9325.8
55°	1277.4	1376.5	1472.4	1569.0	1665.5	2447.7	3229.9	5098.5	6966.8	8795.1	10623.4
57.5°	1259.6	1380.2	1464.7	1533.0	1601.2	2255.6	2910.0	4860.2	6810.6	9307.2	11803.7
60°	1242.9	1368.5	1424.3	1477.9	1531.6	2006.2	2480.9	4417.0	6353.2	9435.1	12517.0
62.5°	1223.4	1340.0	1346.8	1382.4	1418.0	1707.8	1997.5	3817.7	5637.8	8896.3	12154.9
65°	1182.3	1271.2	1270.4	1287.2	1304.0	1439.3	1574.5	3206.2	4837.9	8133.9	11429.9
67.5°	1109.2	1159.1	1161.4	1152.1	1142.7	1181.2	1219.6	2607.2	3994.7	7226.6	10458.5
70°	1016.3	1032.7	1032.7	989.2	945.7	934.8	923.8	2052.8	3181.7	6236.6	9291.4
72.5°	912.9	912.7	902.3	840.7	778.9	745.7	712.6	1569.4	2426.1	5163.3	7900.7
75°	795.5	799.5	751.7	682.5	613.4	583.3	553.3	1139.0	1724.7	3933.0	6141.4
77.5°	677.9	680.0	601.3	534.1	466.9	446.4	426.0	771.8	1117.7	2752.7	4387.9
80°	543.8	544.2	450.0	393.2	336.3	327.9	319.4	497.2	675.3	1773.6	2871.8
82.5°	400.0	395.5	315.2	273.3	231.4	229.7	228.3	305.9	383.7	1026.5	1669.4
85°	263.3	257.5	197.7	167.1	136.4	137.2	138.0	163.5	189.1	461.8	734.5
87.5°	116.3	109.0	84.0	71.4	59.0	59.8	60.5	67.8	75.1	151.2	227.3
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: P966270

CATALOG NUMBER: NAV-SB4B-827-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0
2.5°	2975.1	2986.4	3002.3	3018.3	3027.8	3037.4	3042.1	3046.9	3044.8	3046.9	3042.1
5°	3226.3	3265.6	3304.5	3343.6	3364.7	3385.9	3398.7	3411.5	3421.2	3411.5	3398.7
7.5°	3475.2	3538.9	3596.3	3653.7	3688.4	3722.9	3741.7	3760.2	3769.2	3760.2	3741.7
10°	3658.6	3734.1	3801.5	3868.9	3909.7	3950.2	3968.5	3986.5	3993.4	3986.5	3968.5
12.5°	3770.2	3852.0	3912.8	3973.5	4003.1	4032.8	4042.7	4052.6	4053.7	4052.6	4042.7
15°	3822.9	3893.5	3931.7	3969.9	3971.1	3972.1	3961.5	3951.0	3938.5	3951.0	3961.5
17.5°	3836.0	3883.6	3884.4	3885.1	3842.2	3799.4	3760.1	3720.7	3693.1	3720.7	3760.1
20°	3844.6	3861.3	3811.1	3760.7	3666.2	3571.7	3502.8	3434.0	3391.6	3434.0	3502.8
22.5°	3852.2	3830.3	3726.3	3622.2	3483.2	3344.1	3258.0	3171.9	3125.1	3171.9	3258.0
25°	3864.5	3795.7	3637.6	3479.7	3310.7	3141.8	3051.3	2961.0	2916.8	2961.0	3051.3
27.5°	3890.6	3767.7	3558.4	3349.2	3161.9	2974.8	2885.7	2796.8	2755.0	2796.8	2885.7
30°	3938.7	3755.5	3497.8	3240.2	3045.2	2850.2	2767.6	2685.0	2646.0	2685.0	2767.6
32.5°	3998.9	3748.1	3456.6	3165.1	2981.8	2798.6	2733.8	2668.8	2640.8	2668.8	2733.8
35°	4098.3	3791.3	3487.5	3183.9	3056.5	2929.3	2914.2	2899.0	2896.8	2899.0	2914.2
37.5°	4305.8	3944.6	3668.6	3392.5	3384.2	3376.0	3445.2	3514.3	3550.3	3514.3	3445.2
40°	4669.8	4276.9	4071.6	3866.3	4011.2	4156.1	4324.3	4492.4	4576.2	4492.4	4324.3
42.5°	5197.4	4807.6	4689.4	4571.1	4887.1	5203.1	5509.0	5814.8	5994.4	5814.8	5509.0
45°	5884.8	5534.6	5482.4	5430.1	5936.4	6442.8	6945.4	7448.1	7753.1	7448.1	6945.4
47.5°	6704.4	6363.7	6353.2	6342.5	7072.9	7803.0	8538.9	9274.5	9706.5	9274.5	8538.9
50°	7686.1	7265.4	7267.1	7269.0	8210.2	9151.5	10122.7	11093.9	11681.0	11093.9	10122.7
52.5°	8816.2	8306.8	8255.2	8203.7	9328.0	10452.3	11653.9	12855.4	13559.3	12855.4	11653.9
55°	10120.0	9616.7	9415.8	9215.0	10466.3	11717.5	13150.0	14582.5	15419.6	14582.5	13150.0
57.5°	11529.6	11255.3	10852.5	10449.8	11713.3	12976.8	14599.3	16221.8	17259.8	16221.8	14599.3
60°	12942.8	13368.7	12868.5	12368.3	13563.9	14759.7	16496.9	18234.0	19355.9	18234.0	16496.9
62.5°	13318.2	14481.7	14425.3	14368.9	15464.2	16559.7	18212.4	19865.1	20902.1	19865.1	18212.4
65°	12521.8	13613.7	13829.8	14045.8	15437.7	16829.9	18432.6	20035.1	20918.0	20035.1	18432.6
67.5°	11497.0	12535.5	12636.8	12738.1	14188.5	15638.7	17248.3	18857.7	19549.4	18857.7	17248.3
70°	10421.0	11550.7	11596.0	11641.3	12938.4	14235.3	15620.4	17005.5	17389.8	17005.5	15620.4
72.5°	9196.9	10493.3	10525.9	10558.4	11573.2	12587.9	13625.3	14662.5	14701.5	14662.5	13625.3
75°	7483.0	8824.7	8945.2	9065.6	9855.1	10644.6	11374.8	12105.1	11909.5	12105.1	11374.8
77.5°	5640.3	6892.8	7065.2	7237.6	7837.8	8437.9	8955.8	9473.9	9137.6	9473.9	8955.8
80°	3925.5	4979.1	5193.4	5407.6	5861.0	6314.0	6586.0	6857.9	6317.0	6857.9	6586.0
82.5°	2389.7	3110.2	3349.5	3588.9	3900.9	4212.9	4326.3	4439.8	4014.6	4439.8	4326.3
85°	1116.8	1499.2	1702.7	1906.3	2162.6	2418.9	2483.3	2547.7	2207.1	2547.7	2483.3
87.5°	355.9	484.4	598.0	711.6	839.7	967.9	973.4	978.8	821.7	978.8	973.4
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: P966270

CATALOG NUMBER: NAV-SB4B-827-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0
2.5°	3037.4	3027.8	3018.3	3002.3	2986.4	2975.1	2963.9
5°	3385.9	3364.7	3343.6	3304.5	3265.6	3226.3	3187.0
7.5°	3722.9	3688.4	3653.7	3596.3	3538.9	3475.2	3411.2
10°	3950.2	3909.7	3868.9	3801.5	3734.1	3658.6	3583.1
12.5°	4032.8	4003.1	3973.5	3912.8	3852.0	3770.2	3688.4
15°	3972.1	3971.1	3969.9	3931.7	3893.5	3822.9	3752.3
17.5°	3799.4	3842.2	3885.1	3884.4	3883.6	3836.0	3788.3
20°	3571.7	3666.2	3760.7	3811.1	3861.3	3844.6	3828.0
22.5°	3344.1	3483.2	3622.2	3726.3	3830.3	3852.2	3873.9
25°	3141.8	3310.7	3479.7	3637.6	3795.7	3864.5	3933.1
27.5°	2974.8	3161.9	3349.2	3558.4	3767.7	3890.6	4013.5
30°	2850.2	3045.2	3240.2	3497.8	3755.5	3938.7	4121.9
32.5°	2798.6	2981.8	3165.1	3456.6	3748.1	3998.9	4249.9
35°	2929.3	3056.5	3183.9	3487.5	3791.3	4098.3	4405.3
37.5°	3376.0	3384.2	3392.5	3668.6	3944.6	4305.8	4667.1
40°	4156.1	4011.2	3866.3	4071.6	4276.9	4669.8	5062.7
42.5°	5203.1	4887.1	4571.1	4689.4	4807.6	5197.4	5587.2
45°	6442.8	5936.4	5430.1	5482.4	5534.6	5884.8	6235.0
47.5°	7803.0	7072.9	6342.5	6353.2	6363.7	6704.4	7045.1
50°	9151.5	8210.2	7269.0	7267.1	7265.4	7686.1	8106.9
52.5°	10452.3	9328.0	8203.7	8255.2	8306.8	8816.2	9325.8
55°	11717.5	10466.3	9215.0	9415.8	9616.7	10120.0	10623.4
57.5°	12976.8	11713.3	10449.8	10852.5	11255.3	11529.6	11803.7
60°	14759.7	13563.9	12368.3	12868.5	13368.7	12942.8	12517.0
62.5°	16559.7	15464.2	14368.9	14425.3	14481.7	13318.2	12154.9
65°	16829.9	15437.7	14045.8	13829.8	13613.7	12521.8	11429.9
67.5°	15638.7	14188.5	12738.1	12636.8	12535.5	11497.0	10458.5
70°	14235.3	12938.4	11641.3	11596.0	11550.7	10421.0	9291.4
72.5°	12587.9	11573.2	10558.4	10525.9	10493.3	9196.9	7900.7
75°	10644.6	9855.1	9065.6	8945.2	8824.7	7483.0	6141.4
77.5°	8437.9	7837.8	7237.6	7065.2	6892.8	5640.3	4387.9
80°	6314.0	5861.0	5407.6	5193.4	4979.1	3925.5	2871.8
82.5°	4212.9	3900.9	3588.9	3349.5	3110.2	2389.7	1669.4
85°	2418.9	2162.6	1906.3	1702.7	1499.2	1116.8	734.5
87.5°	967.9	839.7	711.6	598.0	484.4	355.9	227.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)