

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: P965532

Luminaire Tested: **NAV-SB4A-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965532
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-SB4A-722-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15426.2 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

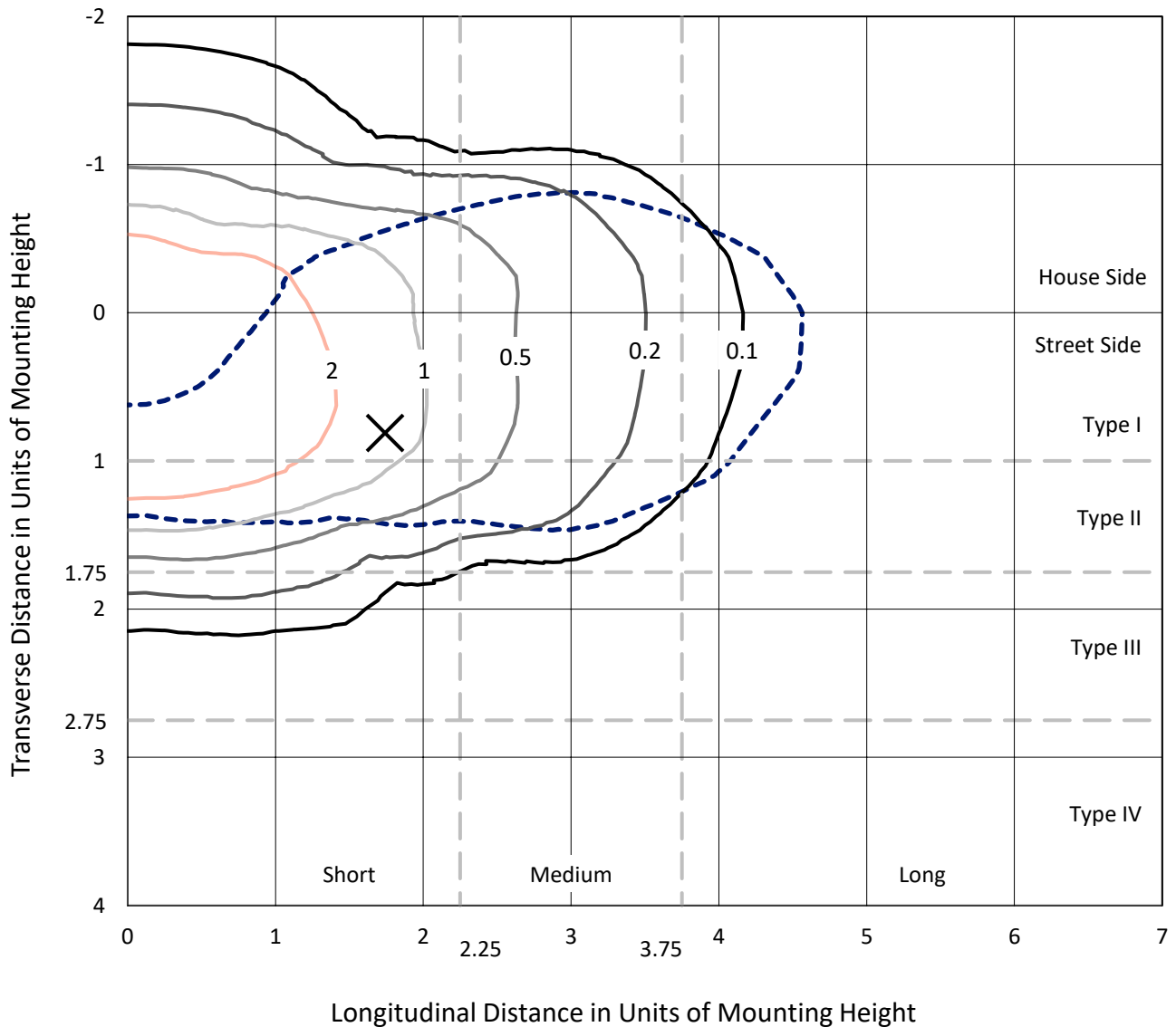
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

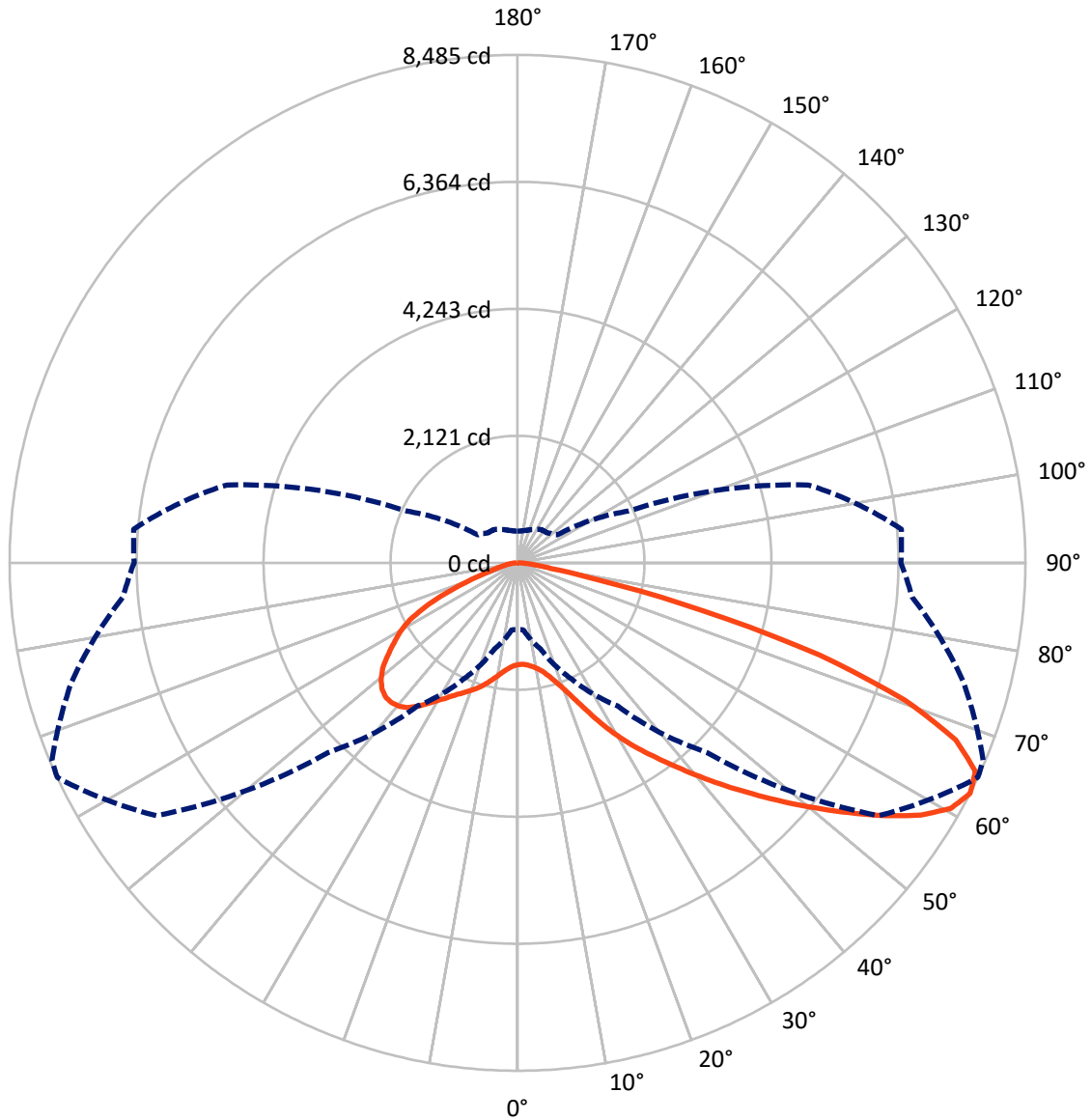
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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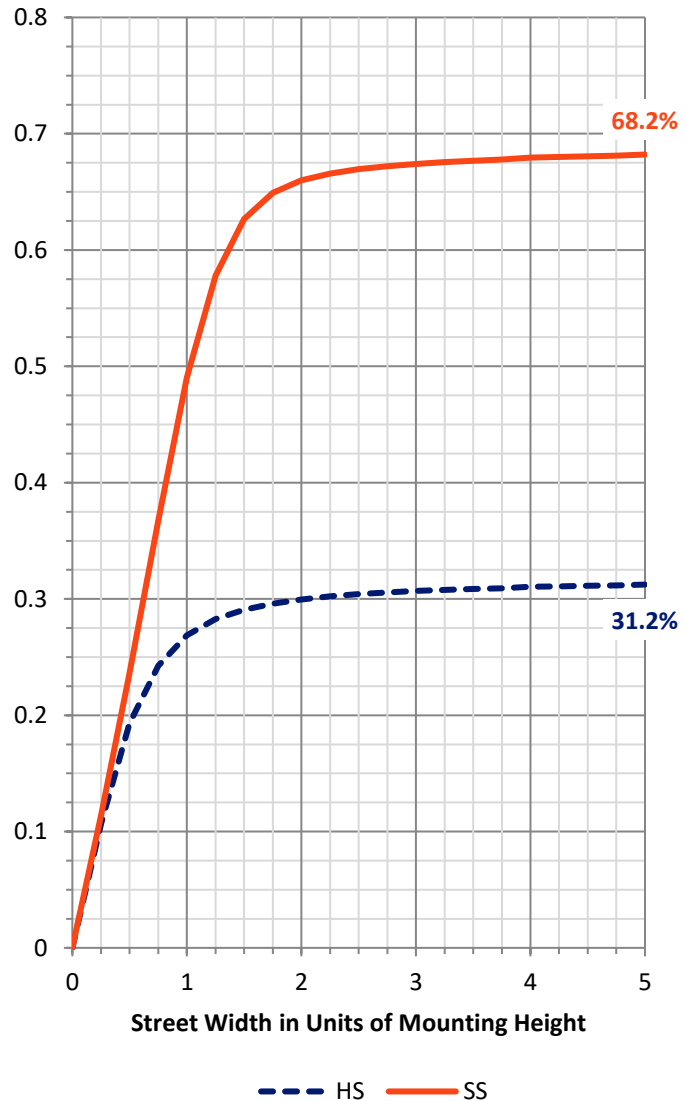
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4867.8	0.0	4867.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10558.4	0.0	10558.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	15426.2	0.0	15426.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	1.1
10°-20°	574.7	3.7
20°-30°	1165.3	7.6
30°-40°	2016.5	13.1
40°-50°	3051.6	19.8
50°-60°	3577.8	23.2
60°-70°	2999.6	19.4
70°-80°	1656.0	10.7
80°-90°	215.1	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°	15426.2	100.0
0°-180°	15426.2	100.0

Coefficient of Utilization

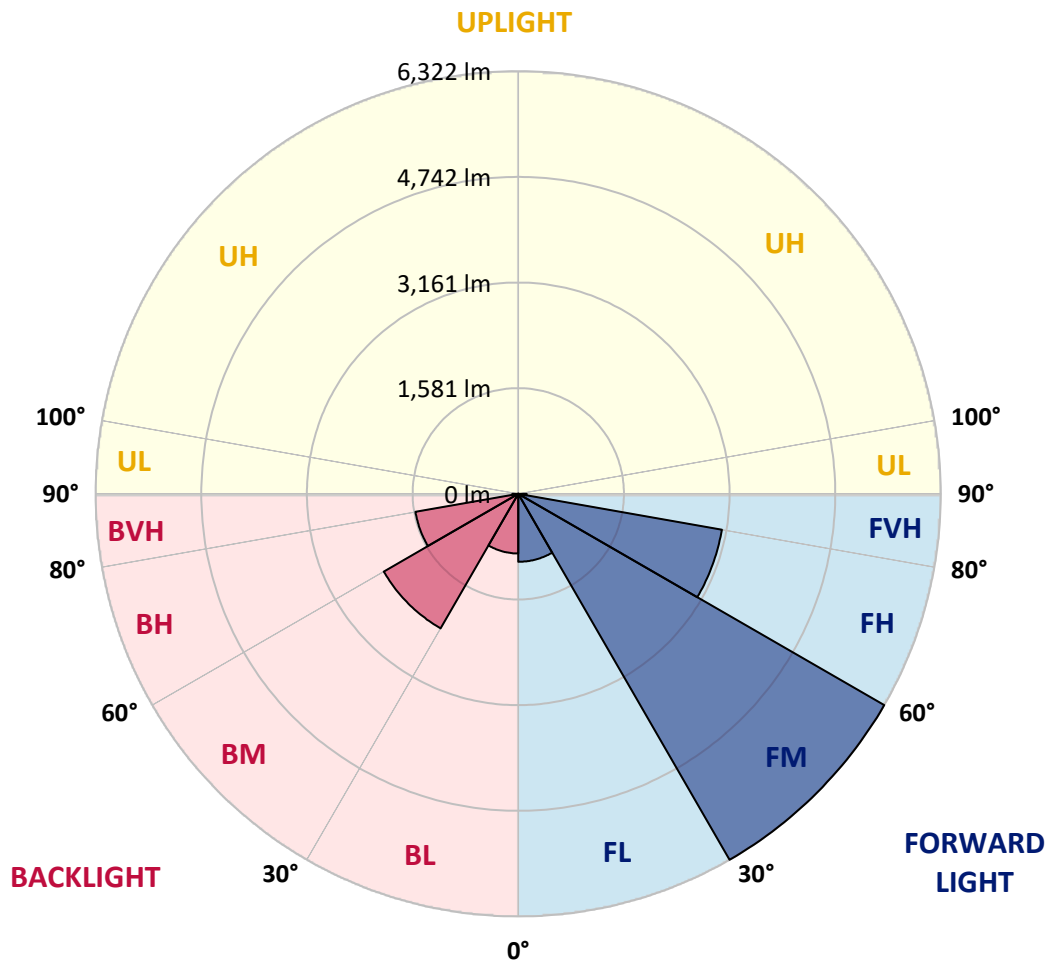


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.8	6.6			
FM (30°-60°)	6322.2	41.0			
FH (60°-80°)	3094.1	20.1			G2/5000
FVH (80°-90°)	125.4	0.8			G2/225
BL (0°-30°)	892.7	5.8	B2/1000		
BM (30°-60°)	2323.8	15.1	B2/2500		
BH (60°-80°)	1561.6	10.1	B3/2500		G3/2500
BVH (80°-90°)	89.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9
2.5°	1688.7	1683.9	1687.9	1687.9	1689.5	1688.7	1694.3	1695.9	1698.3	1703.1	1703.1
5°	1671.9	1671.1	1678.3	1684.7	1691.1	1696.7	1703.9	1714.3	1716.0	1721.5	1728.8
7.5°	1666.3	1661.5	1672.7	1680.7	1695.9	1709.5	1728.8	1746.3	1753.6	1755.9	1769.6
10°	1709.5	1701.5	1712.0	1716.7	1729.5	1743.1	1765.6	1793.5	1801.5	1811.2	1826.3
12.5°	1783.1	1774.4	1789.5	1796.7	1808.7	1820.7	1836.0	1863.1	1867.1	1884.8	1899.2
15°	1884.0	1873.6	1883.2	1891.9	1912.0	1923.2	1938.4	1964.8	1964.8	1978.5	1988.8
17.5°	2020.9	2007.3	2014.4	2017.6	2030.4	2047.2	2072.9	2096.0	2108.1	2103.3	2088.8
20°	2225.0	2208.2	2208.2	2192.1	2187.4	2200.9	2234.5	2266.6	2279.4	2254.5	2219.3
22.5°	2531.4	2507.5	2493.8	2439.4	2417.8	2419.4	2453.0	2492.2	2502.6	2458.7	2379.4
25°	2921.2	2883.6	2865.2	2785.1	2736.3	2693.9	2720.4	2770.8	2785.1	2730.7	2602.7
27.5°	3311.0	3313.4	3295.8	3199.7	3118.9	3041.3	3027.6	3080.4	3095.7	3034.1	2875.6
30°	3857.6	3800.8	3767.2	3651.9	3536.7	3427.8	3371.8	3393.4	3397.4	3323.8	3139.7
32.5°	4329.0	4314.6	4242.6	4141.7	3993.7	3823.1	3729.6	3695.1	3688.8	3583.9	3365.4
35°	4866.0	4858.0	4782.0	4661.9	4501.9	4264.9	4096.1	3997.7	3989.6	3842.4	3588.7
37.5°	5411.9	5411.9	5337.4	5206.2	5040.5	4744.4	4487.4	4331.4	4305.8	4113.7	3816.0
40°	5847.2	5820.8	5834.4	5779.2	5589.5	5275.0	4922.0	4695.5	4661.1	4430.7	4057.7
42.5°	6094.5	6085.7	6167.3	6229.0	6151.3	5900.0	5400.6	5090.2	5042.1	4779.6	4336.2
45°	6149.8	6140.2	6285.8	6511.5	6620.4	6517.2	5920.8	5505.5	5447.1	5144.6	4634.7
47.5°	6022.5	6003.3	6216.9	6573.1	6922.0	7103.8	6484.3	5956.1	5871.2	5499.8	4941.2
50°	5640.0	5621.5	5944.9	6417.8	7023.7	7502.3	7095.8	6433.8	6304.3	5880.8	5251.0
52.5°	4808.4	4817.2	5323.8	5973.7	6890.0	7750.4	7622.4	6937.3	6781.2	6270.6	5541.5
55°	3745.6	3764.7	4387.4	5103.0	6355.4	7712.8	7981.7	7455.8	7300.7	6637.2	5841.6
57.5°	2681.9	2766.8	3350.2	4058.5	5328.6	7116.6	8060.2	7948.9	7798.4	7037.3	6135.3
60°	1738.3	1753.6	2353.8	3067.7	4057.7	6056.9	7900.9	8322.7	8205.0	7445.5	6381.0
62.5°	1114.1	1124.4	1490.2	2145.7	2920.4	4481.1	7364.6	8485.2	8449.1	7715.2	6617.2
65°	818.8	810.8	1001.2	1418.2	1967.2	2763.5	6323.4	8406.6	8477.9	7884.1	6812.5
67.5°	683.5	672.3	765.9	982.1	1449.5	1569.5	4678.7	7896.9	8157.8	7864.8	6955.6
70°	622.7	613.1	669.8	729.1	1130.9	1050.8	2358.6	6865.2	7267.0	7646.4	6932.5
72.5°	527.5	510.7	588.2	647.5	879.6	806.0	974.8	5273.4	5763.2	6946.1	6605.9
75°	409.0	397.8	464.2	569.8	661.1	629.0	616.2	3202.1	3736.7	5371.8	5779.2
77.5°	324.1	308.9	369.7	444.2	594.6	474.6	449.0	1378.9	1908.8	3429.4	4324.2
80°	244.1	230.5	281.0	351.4	456.9	357.7	290.5	562.6	719.6	1737.5	2174.5
82.5°	173.6	161.6	196.1	257.7	307.3	320.9	178.5	315.3	354.5	669.8	485.8
85°	111.2	104.0	131.3	161.6	195.3	206.4	108.9	164.8	180.9	276.1	202.4
87.5°	60.8	49.6	70.4	75.2	90.4	82.4	52.1	60.1	64.8	100.0	85.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9
2.5°	1706.3	1708.7	1716.7	1719.1	1724.7	1731.9	1736.8	1741.5	1741.5	1746.3	1746.3
5°	1729.5	1735.1	1751.9	1760.7	1775.1	1789.5	1798.4	1808.7	1815.2	1818.4	1820.0
7.5°	1774.4	1783.1	1807.2	1822.3	1847.2	1867.1	1880.8	1895.2	1898.4	1907.2	1904.0
10°	1835.2	1845.6	1872.8	1901.6	1931.2	1956.0	1968.8	1979.2	1983.3	1984.8	1980.8
12.5°	1904.8	1920.0	1955.2	1990.4	2021.6	2043.2	2046.4	2044.1	2032.9	2023.2	2023.2
15°	1990.4	2004.1	2043.2	2081.7	2112.1	2116.1	2096.0	2083.3	2069.7	2067.2	2067.2
17.5°	2092.8	2100.1	2136.1	2173.7	2176.1	2162.5	2132.9	2120.9	2108.1	2099.3	2100.1
20°	2212.2	2209.7	2235.3	2251.3	2234.5	2192.9	2148.1	2128.1	2115.3	2104.8	2105.7
22.5°	2354.5	2336.2	2333.0	2329.0	2284.1	2196.9	2136.1	2110.5	2090.5	2076.0	2080.9
25°	2561.9	2491.5	2442.6	2415.4	2314.6	2175.3	2097.7	2040.9	2003.3	1978.5	1988.0
27.5°	2821.2	2702.7	2579.5	2513.0	2314.6	2131.3	2004.8	1912.8	1851.2	1825.5	1838.3
30°	3068.4	2944.4	2762.8	2630.7	2308.9	2059.2	1855.1	1727.1	1655.1	1629.4	1644.7
32.5°	3279.8	3144.5	2957.2	2759.5	2295.4	1942.4	1669.5	1527.9	1458.2	1427.8	1443.0
35°	3475.9	3331.8	3152.5	2901.2	2259.3	1771.1	1465.4	1357.4	1279.7	1230.9	1246.9
37.5°	3676.8	3505.5	3337.4	3029.3	2194.5	1571.0	1308.5	1216.5	1125.2	1059.6	1077.3
40°	3895.2	3690.3	3535.0	3105.3	2088.0	1380.6	1186.8	1102.9	1006.0	936.4	950.0
42.5°	4150.5	3912.0	3755.2	3144.5	1942.4	1245.3	1107.6	1025.2	934.0	877.2	888.4
45°	4417.0	4156.2	3956.1	3143.7	1779.9	1182.1	1082.1	1000.4	899.5	840.4	849.9
47.5°	4696.3	4411.4	4129.7	3092.5	1639.1	1190.8	1067.6	946.8	835.6	777.9	786.0
50°	4976.5	4690.7	4297.8	2996.5	1579.0	1171.7	1014.0	871.6	740.4	688.3	691.5
52.5°	5254.2	4987.6	4442.7	2859.5	1518.2	1100.4	945.2	773.9	701.1	665.1	665.1
55°	5533.5	5281.4	4600.3	2660.3	1366.1	1017.2	829.9	737.1	669.8	637.0	633.9
57.5°	5813.6	5620.7	4750.0	2461.0	1174.9	914.8	766.7	692.3	638.7	610.7	605.9
60°	6104.9	6008.9	4904.4	2277.8	986.0	783.5	720.3	656.3	601.9	570.6	568.3
62.5°	6405.0	6436.3	5025.3	2041.7	812.3	703.5	678.7	613.1	560.3	530.6	529.8
65°	6707.6	6848.4	5104.5	1714.3	658.7	627.5	633.9	565.8	512.2	486.6	485.8
67.5°	6935.7	7145.4	5082.2	1297.3	540.2	555.4	577.8	516.2	465.8	445.8	446.6
70°	6961.3	7110.1	4861.3	888.4	452.2	485.0	515.4	467.4	415.3	401.0	401.8
72.5°	6620.4	6629.9	4245.8	580.3	382.5	425.8	449.8	417.8	367.4	352.9	352.2
75°	5726.4	5483.0	3117.3	382.5	320.1	365.7	388.2	365.7	316.9	320.1	308.9
77.5°	4338.6	3883.2	1892.8	272.1	267.3	307.3	337.7	321.7	280.1	314.6	277.0
80°	2235.3	2100.8	844.4	203.3	211.3	245.7	277.7	256.9	221.7	211.3	192.9
82.5°	512.2	595.4	332.9	145.7	152.8	176.9	212.1	192.9	159.3	134.5	132.8
85°	179.3	196.1	147.3	91.2	89.7	110.5	144.0	128.8	108.0	86.4	91.2
87.5°	56.8	74.4	55.2	36.8	38.4	49.6	66.4	60.8	50.4	32.8	34.4
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)