

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: P963941

Luminaire Tested: **NAV-SB3B-722-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-722-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

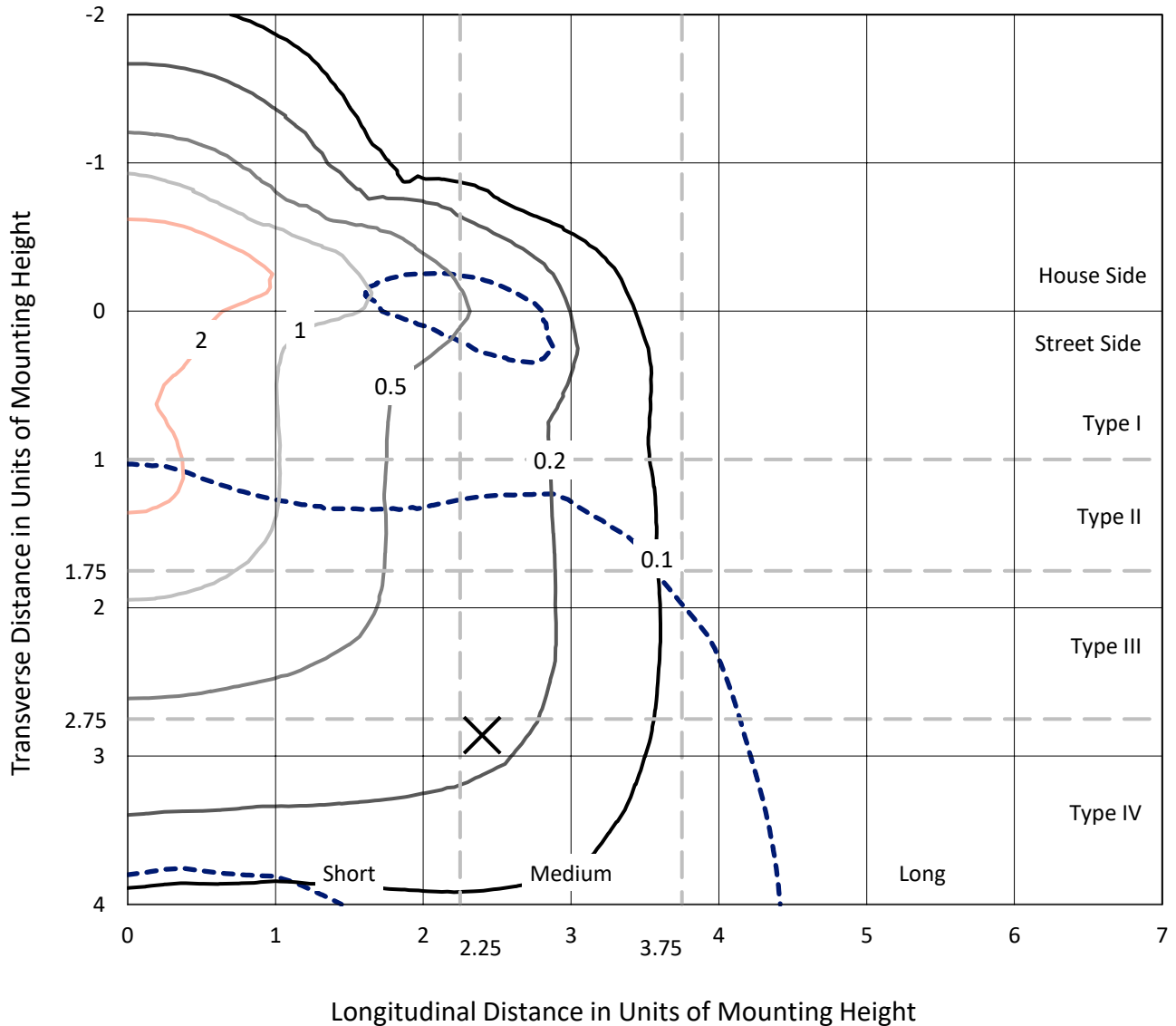
Lumens per Lamp: N/A  
Luminaire Lumens: 14180.9 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

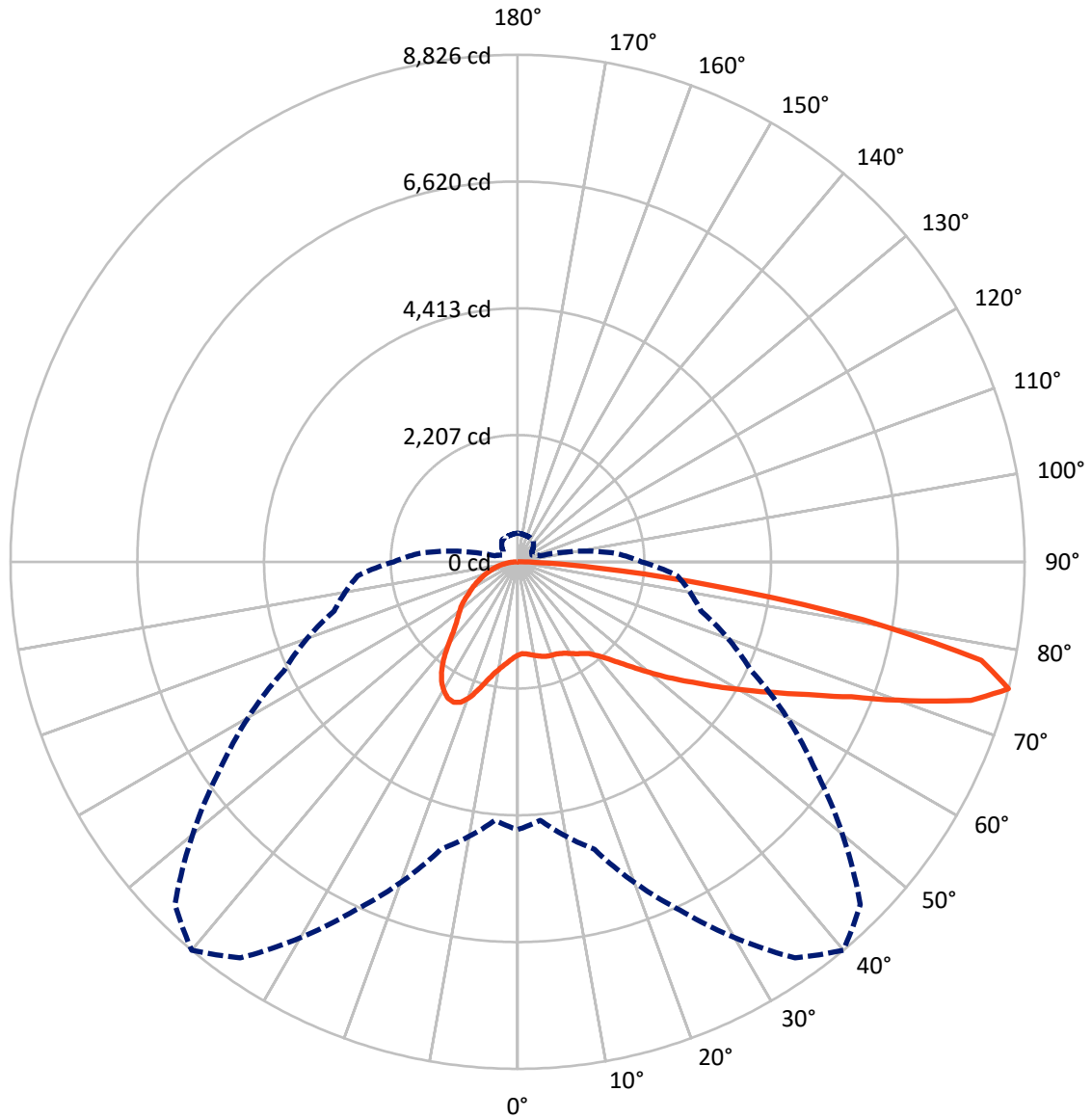
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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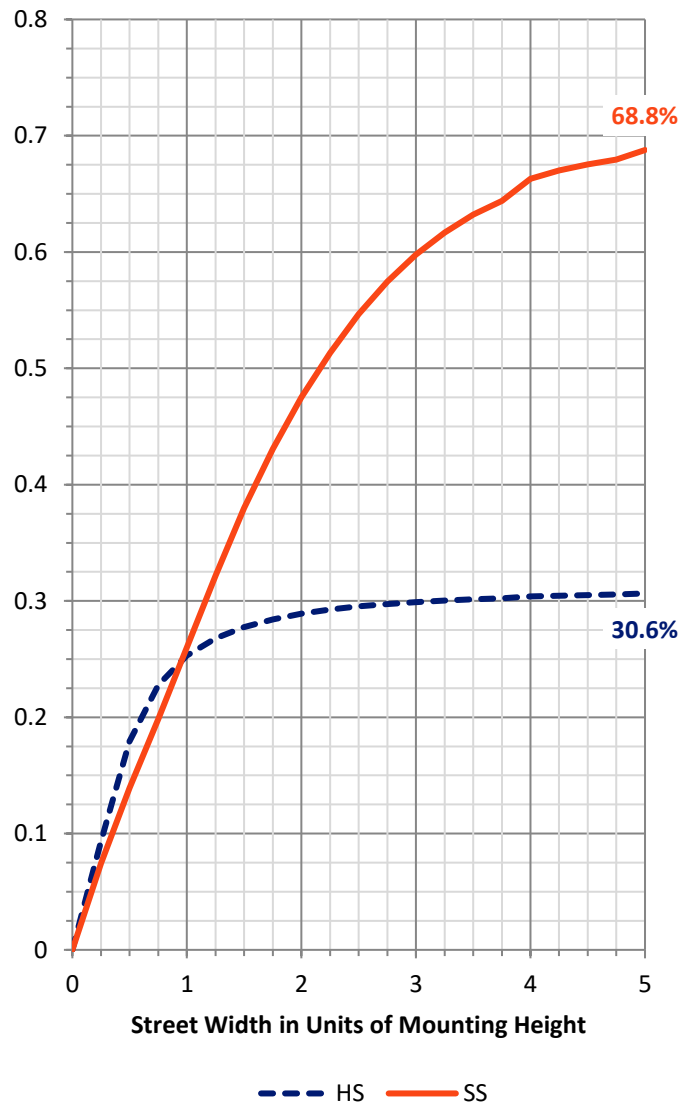
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4393.7	0.0	4393.7
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	9787.2	0.0	9787.2
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	14180.9	0.0	14180.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.9	1.1
10°-20°	543.5	3.8
20°-30°	992.3	7.0
30°-40°	1407.4	9.9
40°-50°	1900.4	13.4
50°-60°	2556.5	18.0
60°-70°	3244.8	22.9
70°-80°	2944.9	20.8
80°-90°	429.3	3.0
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°	14180.9	100.0
0°-180°	14180.9	100.0

**Coefficient of Utilization**

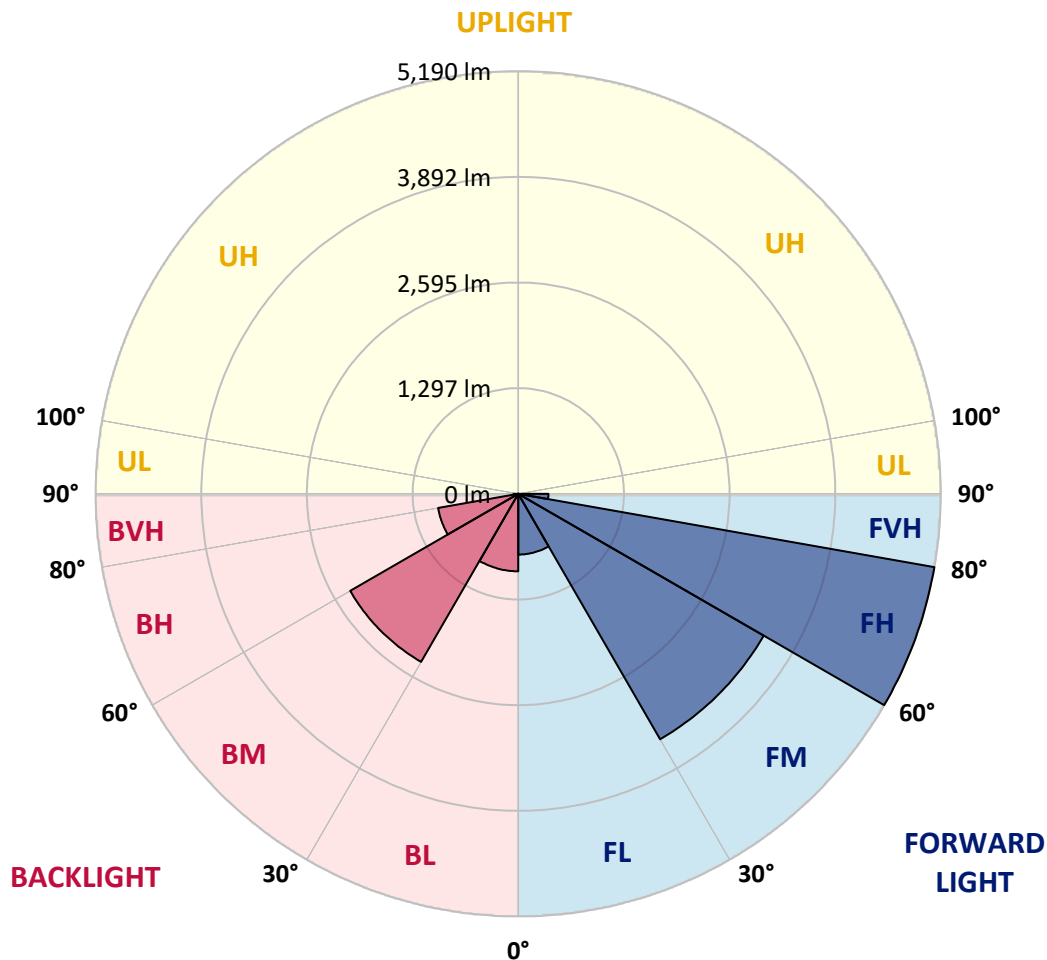


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	745.9	5.3			
FM (30°-60°)	3481.1	24.5			
FH (60°-80°)	5190.0	36.6			G3/7500
FVH (80°-90°)	370.2	2.6			G3/500
BL (0°-30°)	951.7	6.7	B2/1000		
BM (30°-60°)	2383.2	16.8	B2/2500		
BH (60°-80°)	999.7	7.0	B2/1000		G2/1000
BVH (80°-90°)	59.1	0.4			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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7
2.5°	1596.7	1605.8	1603.5	1600.5	1600.5	1601.3	1600.5	1605.8	1611.1	1616.3	1624.6
5°	1613.4	1622.4	1617.9	1614.1	1611.1	1610.3	1608.0	1607.3	1610.3	1617.0	1628.4
7.5°	1645.6	1654.7	1647.9	1641.1	1635.2	1632.1	1629.1	1624.6	1622.4	1626.2	1641.9
10°	1681.8	1690.8	1682.5	1670.4	1660.7	1656.9	1653.9	1649.4	1646.5	1648.7	1665.9
12.5°	1717.9	1726.9	1715.6	1699.0	1686.3	1684.1	1680.3	1678.7	1678.0	1677.3	1694.5
15°	1751.7	1759.2	1745.0	1725.4	1711.9	1708.1	1704.4	1706.6	1710.3	1714.8	1734.4
17.5°	1778.1	1785.6	1764.5	1738.9	1726.1	1724.7	1722.4	1729.9	1740.4	1751.7	1775.8
20°	1802.2	1809.6	1782.6	1747.9	1733.0	1733.0	1733.7	1749.5	1764.5	1781.0	1814.1
22.5°	1836.0	1842.0	1808.9	1761.5	1739.7	1741.2	1747.2	1763.0	1781.8	1804.4	1850.2
25°	1886.3	1890.8	1850.2	1787.1	1762.3	1766.8	1772.0	1779.5	1797.6	1823.9	1885.6
27.5°	1967.6	1971.4	1918.0	1832.2	1794.6	1802.2	1809.6	1804.4	1812.6	1835.2	1914.2
30°	2081.9	2084.1	2016.5	1902.9	1849.5	1853.3	1854.7	1832.9	1817.1	1835.2	1934.5
32.5°	2217.3	2216.6	2136.1	1988.6	1911.9	1908.1	1895.4	1852.5	1815.7	1831.5	1952.5
35°	2427.1	2418.9	2315.1	2108.9	1982.7	1959.3	1929.3	1874.3	1823.2	1827.7	1968.3
37.5°	2774.7	2749.0	2605.3	2306.0	2087.9	2028.5	1984.1	1909.7	1839.7	1826.1	1987.2
40°	3166.5	3134.1	2976.2	2576.0	2245.9	2150.3	2078.9	1960.1	1866.8	1832.9	2014.9
42.5°	3631.3	3585.4	3415.4	2894.2	2446.0	2307.6	2200.0	2024.0	1906.7	1854.7	2052.6
45°	4202.2	4141.2	3900.5	3252.9	2697.9	2513.6	2370.0	2121.0	1967.6	1896.9	2108.9
47.5°	4779.1	4794.1	4451.9	3663.7	3000.3	2767.8	2582.8	2266.9	2056.4	1964.6	2200.0
50°	5392.0	5402.6	5000.2	4118.7	3343.2	3055.2	2822.0	2430.2	2179.7	2060.9	2336.2
52.5°	5870.4	5871.9	5498.1	4594.8	3700.5	3371.0	3080.0	2616.7	2322.5	2188.7	2517.4
55°	6169.8	6166.0	5847.1	5045.4	4111.2	3702.7	3365.8	2828.8	2497.1	2339.2	2745.3
57.5°	6387.1	6375.8	6087.8	5432.7	4549.0	4094.7	3689.2	3069.5	2703.1	2518.1	3045.4
60°	6469.9	6463.1	6251.0	5767.4	5009.2	4527.8	4062.3	3338.7	2937.0	2729.5	3431.2
62.5°	6501.5	6514.3	6411.2	6091.6	5501.9	5007.7	4472.2	3660.7	3200.4	2968.7	3838.1
65°	6612.8	6636.1	6615.0	6515.7	6058.5	5569.5	5015.9	4043.5	3487.7	3225.2	4263.1
67.5°	6833.2	6856.4	6865.4	7023.4	6738.4	6269.8	5694.4	4520.4	3823.9	3491.5	4582.8
70°	6827.8	6821.1	6980.6	7427.4	7589.8	7239.3	6609.0	5107.0	4224.7	3712.6	4623.4
72.5°	6214.9	6160.8	6537.6	7422.8	8298.3	8251.7	7725.9	5863.6	4570.7	3739.6	4011.8
75°	4662.5	4518.1	5183.7	6689.5	8416.4	8826.3	8436.0	6333.0	4488.8	3304.1	2791.9
77.5°	1993.9	1848.8	2633.2	4952.1	7532.6	8250.9	7784.6	5525.2	3583.2	2185.0	1371.1
80°	522.0	521.2	795.7	2245.2	5122.7	6093.0	5345.4	3568.1	2047.3	780.7	378.3
82.5°	215.9	210.6	292.5	873.2	2503.2	3419.2	2790.5	1591.5	739.3	211.4	125.6
85°	80.5	79.7	142.2	301.6	883.0	1410.3	1020.7	406.9	184.3	103.0	56.4
87.5°	22.5	21.8	30.9	104.6	215.1	326.5	174.5	66.9	51.9	40.6	16.5
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°	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7	1621.7
2.5°	1626.9	1630.7	1637.4	1642.7	1649.4	1656.9	1667.5	1674.2	1681.0	1685.5	1682.5
5°	1633.6	1641.9	1659.2	1676.5	1696.8	1715.6	1737.5	1753.3	1766.0	1769.8	1771.3
7.5°	1648.7	1662.2	1691.6	1720.9	1753.3	1784.0	1815.7	1842.7	1864.6	1872.8	1873.6
10°	1675.0	1693.1	1734.4	1775.8	1818.7	1866.0	1906.7	1945.8	1976.6	1989.4	1990.1
12.5°	1708.1	1730.7	1784.8	1842.0	1901.4	1966.9	2019.5	2067.6	2106.0	2123.3	2123.3
15°	1751.0	1780.3	1849.5	1926.2	2013.5	2104.4	2171.5	2224.9	2267.7	2288.7	2287.3
17.5°	1797.6	1836.7	1923.9	2039.7	2164.6	2284.2	2362.4	2401.6	2446.0	2466.3	2465.5
20°	1842.7	1890.8	2015.8	2184.2	2350.4	2477.5	2540.7	2551.2	2554.2	2556.6	2562.5
22.5°	1889.4	1954.1	2130.8	2366.2	2544.5	2632.5	2641.5	2596.3	2533.2	2503.9	2512.2
25°	1940.5	2026.2	2281.2	2567.0	2711.4	2722.0	2652.8	2542.9	2423.4	2368.5	2376.8
27.5°	1990.1	2109.8	2461.7	2758.8	2831.8	2739.3	2590.4	2434.7	2290.3	2232.3	2239.1
30°	2039.7	2205.3	2661.0	2926.6	2886.7	2696.4	2491.8	2318.0	2172.9	2112.0	2118.8
32.5°	2090.2	2316.6	2890.5	3047.6	2876.9	2605.3	2369.2	2187.2	2059.3	1995.4	2003.7
35°	2147.4	2453.4	3107.8	3113.8	2811.5	2471.5	2207.5	2030.7	1919.4	1868.3	1879.5
37.5°	2221.8	2627.2	3299.6	3130.4	2697.2	2275.2	2006.7	1845.7	1754.0	1730.7	1747.2
40°	2314.3	2836.3	3446.3	3104.1	2528.0	2036.8	1787.1	1658.4	1606.6	1611.8	1629.9
42.5°	2434.7	3070.2	3549.4	3036.4	2292.5	1790.9	1594.5	1537.4	1562.2	1583.2	1602.8
45°	2591.1	3313.1	3613.2	2921.2	2026.2	1582.5	1480.9	1494.4	1513.3	1515.6	1530.6
47.5°	2791.2	3559.1	3655.4	2747.5	1754.7	1435.8	1408.8	1411.7	1408.0	1392.2	1404.2
50°	3040.9	3798.2	3693.0	2517.4	1523.9	1344.1	1308.0	1297.4	1245.6	1194.4	1201.2
52.5°	3325.2	4017.9	3708.8	2231.6	1344.1	1267.3	1208.7	1142.5	1045.5	1029.7	1034.9
55°	3641.1	4221.0	3668.2	1880.4	1192.9	1168.8	1080.0	1000.3	989.8	976.3	978.6
57.5°	4018.6	4439.9	3585.4	1488.5	1037.9	1053.7	967.3	976.3	957.5	936.4	932.6
60°	4431.6	4666.2	3440.3	1131.2	877.7	910.1	937.9	937.2	931.9	914.6	908.6
62.5°	4803.2	4815.1	3154.4	866.4	737.1	798.8	874.7	874.0	869.5	859.7	856.0
65°	5024.2	4792.6	2677.6	682.1	621.3	707.0	788.9	795.0	795.7	795.0	795.0
67.5°	4985.2	4528.6	2023.2	543.0	525.7	613.8	704.0	712.3	718.3	719.8	721.3
70°	4542.9	3948.7	1319.3	433.3	440.7	531.8	623.5	631.8	637.0	643.1	646.1
72.5°	3541.1	2903.2	755.1	350.4	366.3	461.0	543.8	553.6	556.6	567.8	572.4
75°	2157.8	1707.3	407.6	276.0	300.8	394.1	464.8	476.1	481.3	494.9	496.4
77.5°	1025.9	739.3	232.4	215.1	242.2	322.0	392.6	405.4	391.1	398.6	392.6
80°	346.8	274.5	146.7	164.0	185.0	251.2	314.4	327.2	297.0	295.6	292.5
82.5°	121.1	111.3	93.3	109.1	119.6	179.8	237.7	254.2	221.1	220.4	209.8
85°	47.4	45.1	51.9	59.4	71.4	110.6	156.4	164.7	136.1	109.8	108.3
87.5°	9.7	10.6	12.8	13.5	21.8	38.3	56.4	69.2	54.9	46.6	42.8
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)