

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: P963951

Luminaire Tested: **NAV-SB3B-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963951  
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-SB3B-722-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14497.6 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

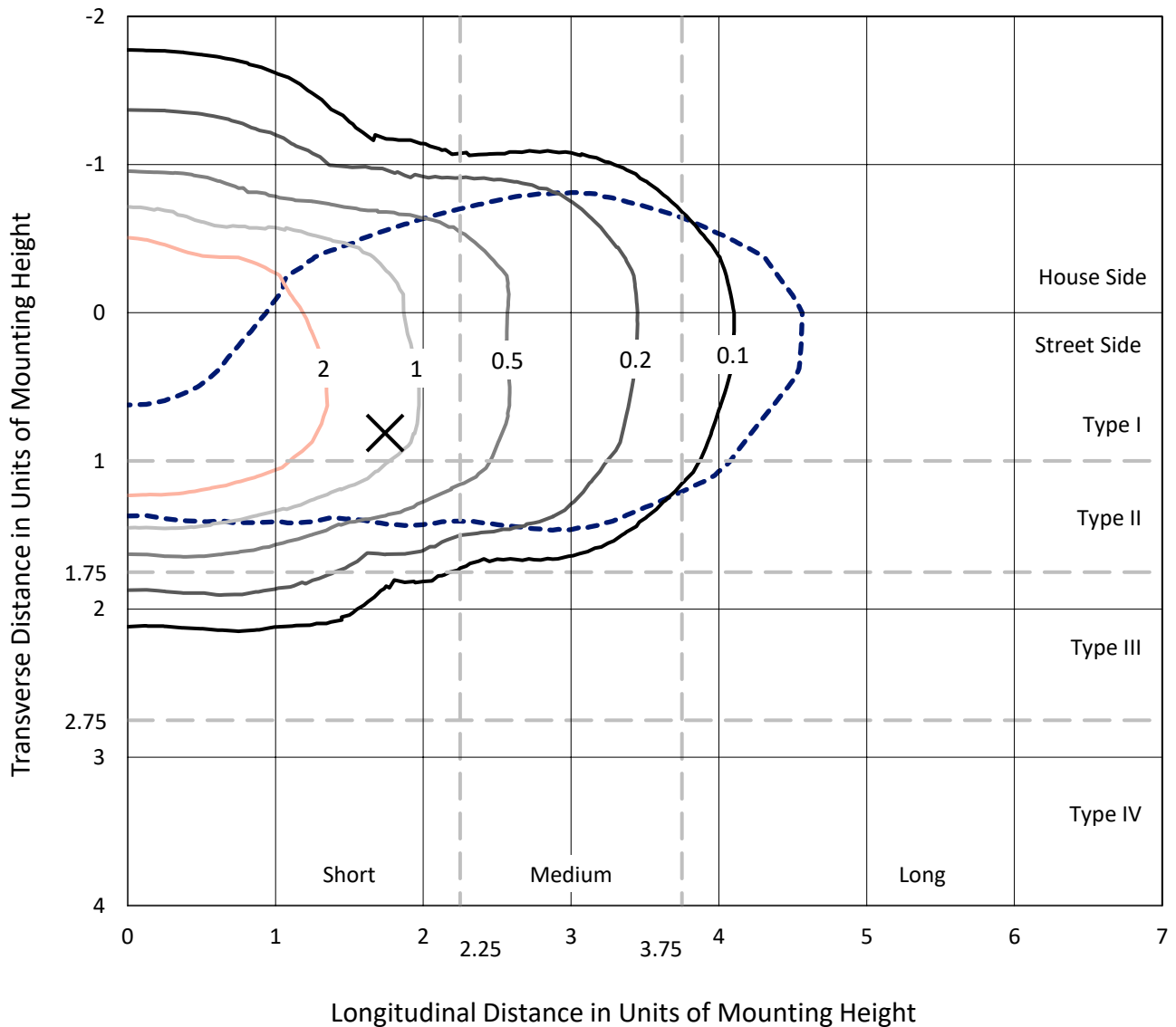
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

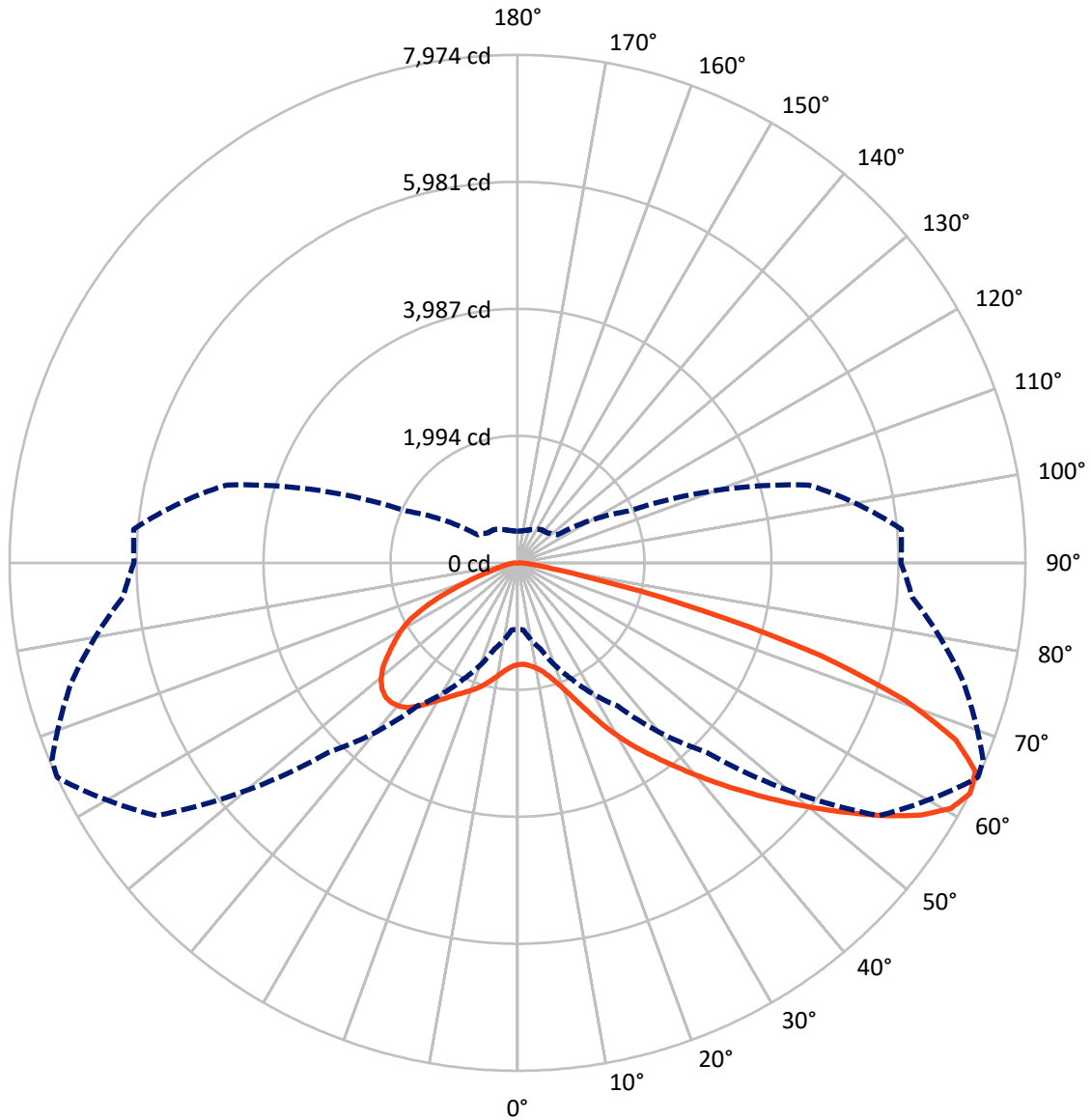
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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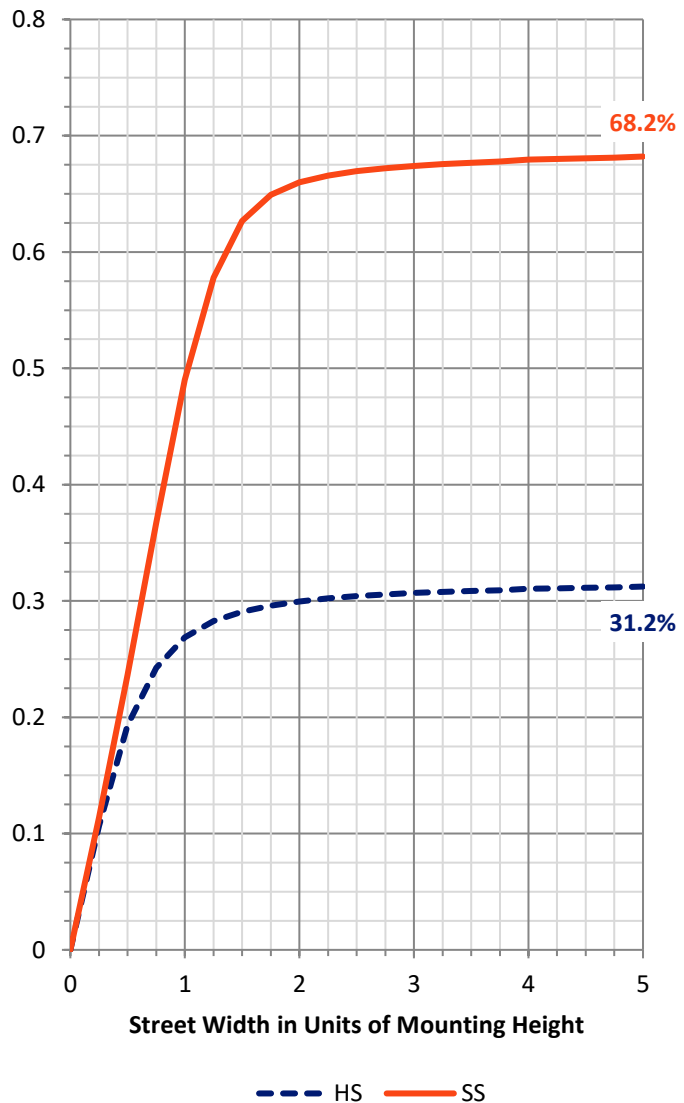
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4574.8	0.0	4574.8
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	9922.8	0.0	9922.8
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	14497.6	0.0	14497.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.3	1.1
10°-20°	540.1	3.7
20°-30°	1095.2	7.6
30°-40°	1895.1	13.1
40°-50°	2867.9	19.8
50°-60°	3362.5	23.2
60°-70°	2819.0	19.4
70°-80°	1556.3	10.7
80°-90°	202.2	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°	14497.6	100.0
0°-180°	14497.6	100.0

**Coefficient of Utilization**



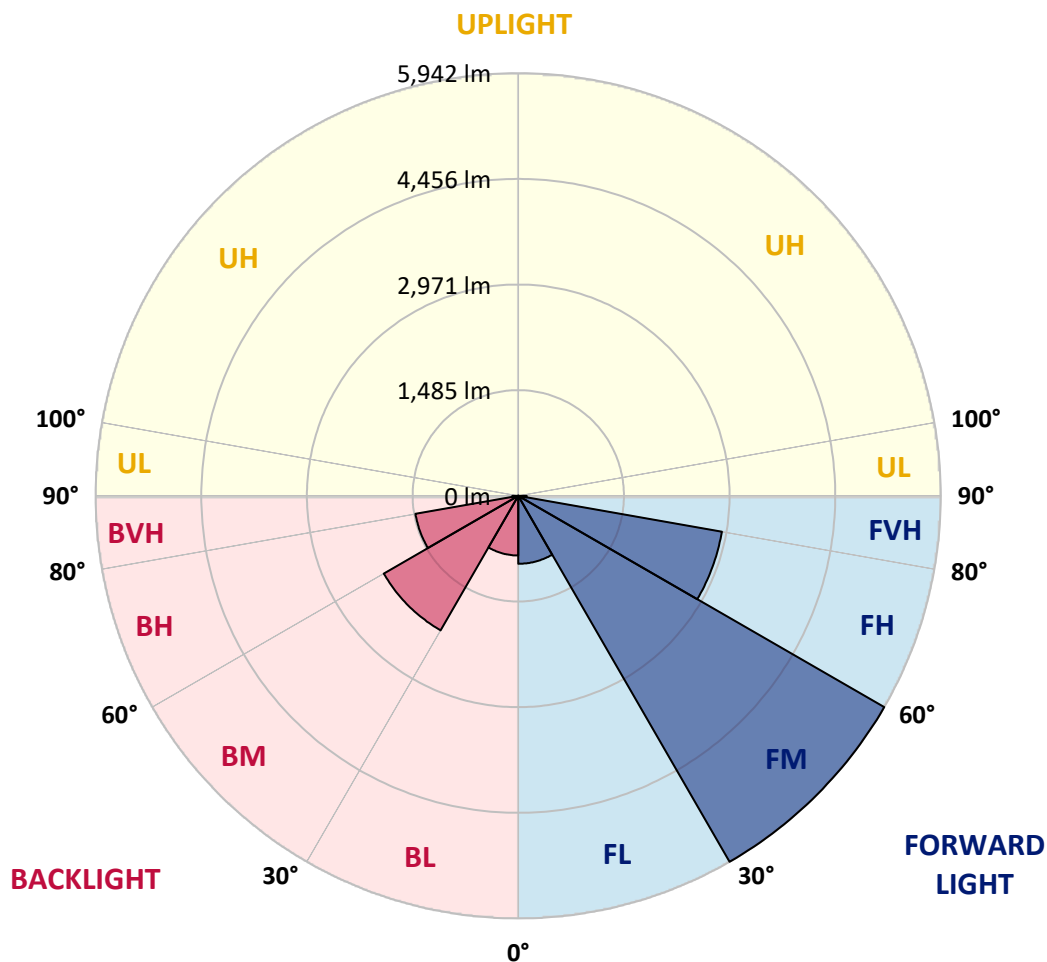
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.6	6.6			
FM (30°-60°)	5941.6	41.0			
FH (60°-80°)	2907.8	20.1			G2/5000
FVH (80°-90°)	117.8	0.8			G2/225
BL (0°-30°)	839.0	5.8	B2/1000		
BM (30°-60°)	2184.0	15.1	B2/2500		
BH (60°-80°)	1467.6	10.1	B3/2500		G3/2500
BVH (80°-90°)	84.3	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°	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6
2.5°	1587.0	1582.5	1586.3	1586.3	1587.8	1587.0	1592.3	1593.8	1596.0	1600.5	1600.5
5°	1571.2	1570.5	1577.3	1583.3	1589.3	1594.6	1601.4	1611.1	1612.6	1617.9	1624.6
7.5°	1566.0	1561.5	1572.0	1579.5	1593.8	1606.6	1624.6	1641.2	1648.0	1650.2	1663.0
10°	1606.6	1599.1	1608.8	1613.4	1625.4	1638.2	1659.3	1685.6	1693.1	1702.1	1716.4
12.5°	1675.8	1667.6	1681.8	1688.6	1699.9	1711.1	1725.5	1751.0	1754.8	1771.3	1784.8
15°	1770.6	1760.7	1769.8	1778.1	1796.9	1807.4	1821.7	1846.5	1846.5	1859.4	1869.1
17.5°	1899.2	1886.4	1893.2	1896.1	1908.2	1924.0	1948.1	1969.8	1981.1	1976.6	1963.1
20°	2091.0	2075.2	2075.2	2060.1	2055.6	2068.4	2100.0	2130.1	2142.1	2118.8	2085.7
22.5°	2379.0	2356.5	2343.7	2292.5	2272.2	2273.8	2305.3	2342.2	2352.0	2310.7	2236.1
25°	2745.4	2710.0	2692.7	2617.5	2571.6	2531.8	2556.6	2603.9	2617.5	2566.4	2446.0
27.5°	3111.7	3114.0	3097.3	3007.1	2931.1	2858.2	2845.4	2895.0	2909.4	2851.4	2702.5
30°	3625.4	3572.0	3540.4	3432.1	3323.8	3221.5	3168.8	3189.1	3192.9	3123.7	2950.7
32.5°	4068.4	4054.9	3987.1	3892.4	3753.2	3593.0	3505.0	3472.7	3466.7	3368.2	3162.8
35°	4573.1	4565.6	4494.1	4381.3	4230.9	4008.3	3849.5	3757.0	3749.4	3611.1	3372.7
37.5°	5086.0	5086.0	5016.1	4892.7	4737.0	4458.8	4217.4	4070.7	4046.6	3866.1	3586.3
40°	5495.2	5470.4	5483.2	5431.3	5253.0	4957.4	4625.7	4412.8	4380.5	4164.0	3813.4
42.5°	5727.6	5719.4	5796.1	5854.0	5781.0	5544.8	5075.5	4783.7	4738.6	4491.9	4075.2
45°	5779.6	5770.5	5907.4	6119.6	6221.9	6124.8	5564.4	5174.1	5119.2	4834.8	4355.7
47.5°	5659.9	5641.9	5842.7	6177.5	6505.4	6676.1	6093.9	5597.5	5517.8	5168.8	4643.8
50°	5300.4	5283.2	5587.0	6031.5	6600.9	7050.7	6668.5	6046.6	5924.7	5526.8	4934.9
52.5°	4518.9	4527.2	5003.3	5614.0	6475.3	7283.9	7163.5	6519.6	6373.0	5893.1	5207.9
55°	3520.1	3538.1	4123.3	4795.8	5972.9	7248.5	7501.3	7007.1	6861.1	6237.6	5490.0
57.5°	2520.5	2600.2	3148.5	3814.1	5007.8	6688.1	7575.0	7470.4	7329.0	6613.7	5766.0
60°	1633.6	1648.0	2212.1	2883.0	3813.4	5692.3	7425.2	7821.7	7711.1	6997.3	5996.9
62.5°	1047.0	1056.8	1400.5	2016.5	2744.6	4211.3	6921.3	7974.3	7940.5	7250.7	6218.8
65°	769.5	761.9	941.0	1332.8	1848.8	2597.1	5942.7	7900.6	7967.5	7409.4	6402.4
67.5°	642.4	631.8	719.9	922.9	1362.1	1475.0	4397.0	7421.5	7666.7	7391.4	6536.9
70°	585.2	576.2	629.6	685.2	1062.8	987.6	2216.6	6452.0	6829.6	7186.1	6515.1
72.5°	495.7	479.9	552.8	608.5	826.7	757.4	916.1	4956.0	5416.2	6527.9	6208.2
75°	384.4	373.8	436.2	535.6	621.3	591.2	579.1	3009.4	3511.8	5048.4	5431.3
77.5°	304.6	290.3	347.5	417.5	558.8	446.0	422.0	1296.0	1793.9	3223.0	4063.9
80°	229.4	216.6	264.0	330.2	429.5	336.2	273.1	528.8	676.2	1632.9	2043.6
82.5°	163.2	151.9	184.3	242.2	288.8	301.7	167.7	296.3	333.2	629.6	456.5
85°	104.6	97.8	123.3	151.9	183.5	194.0	102.3	155.0	169.9	259.5	190.3
87.5°	57.2	46.6	66.2	70.7	85.0	77.5	48.9	56.4	60.9	94.0	80.5
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°	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6	1597.6
2.5°	1603.6	1605.9	1613.4	1615.6	1620.9	1627.7	1632.2	1636.7	1636.7	1641.2	1641.2
5°	1625.4	1630.7	1646.5	1654.8	1668.3	1681.8	1690.1	1699.9	1705.9	1708.9	1710.4
7.5°	1667.6	1675.8	1698.3	1712.7	1735.9	1754.8	1767.5	1781.1	1784.1	1792.4	1789.3
10°	1724.7	1734.5	1760.0	1787.1	1815.0	1838.2	1850.3	1860.1	1863.9	1865.3	1861.6
12.5°	1790.2	1804.4	1837.5	1870.6	1899.9	1920.2	1923.2	1921.0	1910.5	1901.5	1901.5
15°	1870.6	1883.4	1920.2	1956.3	1984.9	1988.7	1969.8	1957.9	1945.0	1942.8	1942.8
17.5°	1966.9	1973.6	2007.5	2042.8	2045.1	2032.3	2004.5	1993.2	1981.1	1972.9	1973.6
20°	2078.9	2076.6	2100.7	2115.8	2100.0	2060.9	2018.7	2000.0	1988.0	1978.1	1978.9
22.5°	2212.9	2195.5	2192.5	2188.8	2146.7	2064.7	2007.5	1983.5	1964.6	1951.1	1955.6
25°	2407.6	2341.4	2295.6	2270.0	2175.3	2044.4	1971.4	1918.0	1882.6	1859.4	1868.4
27.5°	2651.4	2540.1	2424.2	2361.8	2175.3	2003.0	1884.2	1797.6	1739.7	1715.6	1727.7
30°	2883.7	2767.2	2596.4	2472.3	2169.9	1935.3	1743.5	1623.2	1555.4	1531.4	1545.7
32.5°	3082.3	2955.2	2779.2	2593.5	2157.2	1825.5	1569.0	1435.8	1370.4	1341.8	1356.2
35°	3266.6	3131.2	2962.8	2726.6	2123.3	1664.5	1377.2	1275.6	1202.7	1156.8	1171.9
37.5°	3455.4	3294.5	3136.5	2846.9	2062.4	1476.5	1229.8	1143.3	1057.5	995.9	1012.4
40°	3660.7	3468.2	3322.2	2918.4	1962.4	1297.4	1115.4	1036.5	945.5	880.1	892.8
42.5°	3900.6	3676.6	3529.1	2955.2	1825.5	1170.3	1041.0	963.5	877.8	824.4	834.9
45°	4151.1	3906.0	3717.9	2954.5	1672.8	1110.9	1016.9	940.2	845.4	789.8	798.8
47.5°	4413.6	4145.8	3881.1	2906.3	1540.4	1119.2	1003.4	889.8	785.3	731.1	738.6
50°	4676.9	4408.3	4039.0	2816.1	1484.0	1101.2	952.9	819.1	695.8	646.9	649.8
52.5°	4937.8	4687.4	4175.2	2687.4	1426.8	1034.2	888.3	727.3	658.9	625.0	625.0
55°	5200.3	4963.5	4323.3	2500.2	1283.9	956.0	780.0	692.7	629.6	598.7	595.7
57.5°	5463.7	5282.3	4464.0	2312.9	1104.1	859.7	720.6	650.6	600.2	573.9	569.4
60°	5737.4	5647.1	4609.2	2140.6	926.7	736.4	676.9	616.7	565.6	536.3	534.0
62.5°	6019.5	6048.8	4722.8	1918.7	763.4	661.1	637.9	576.2	526.5	498.7	497.9
65°	6303.7	6436.2	4797.2	1611.1	619.0	589.7	595.7	531.8	481.3	457.4	456.5
67.5°	6518.2	6715.2	4776.2	1219.2	507.7	522.0	543.0	485.1	437.8	418.9	419.7
70°	6542.3	6682.1	4568.5	834.9	425.0	455.8	484.4	439.2	390.3	376.8	377.6
72.5°	6221.9	6230.9	3990.1	545.3	359.6	400.2	422.7	392.6	345.2	331.7	331.0
75°	5381.7	5153.0	2929.7	359.6	300.8	343.8	364.8	343.8	297.9	300.8	290.3
77.5°	4077.4	3649.4	1778.9	255.7	251.2	288.8	317.4	302.4	263.2	295.6	260.2
80°	2100.7	1974.4	793.6	191.1	198.5	230.9	261.0	241.5	208.4	198.5	181.2
82.5°	481.3	559.6	312.9	136.9	143.7	166.3	199.4	181.2	149.6	126.4	124.8
85°	168.5	184.3	138.4	85.8	84.3	103.8	135.4	121.1	101.6	81.3	85.8
87.5°	53.4	69.9	51.9	34.6	36.1	46.6	62.4	57.2	47.4	30.9	32.4
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)