

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: P963486

Luminaire Tested: **NAV-SB3A-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963486
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-SB3A-730-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13980 lumens
Efficiency: N/A
Efficacy: 165.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

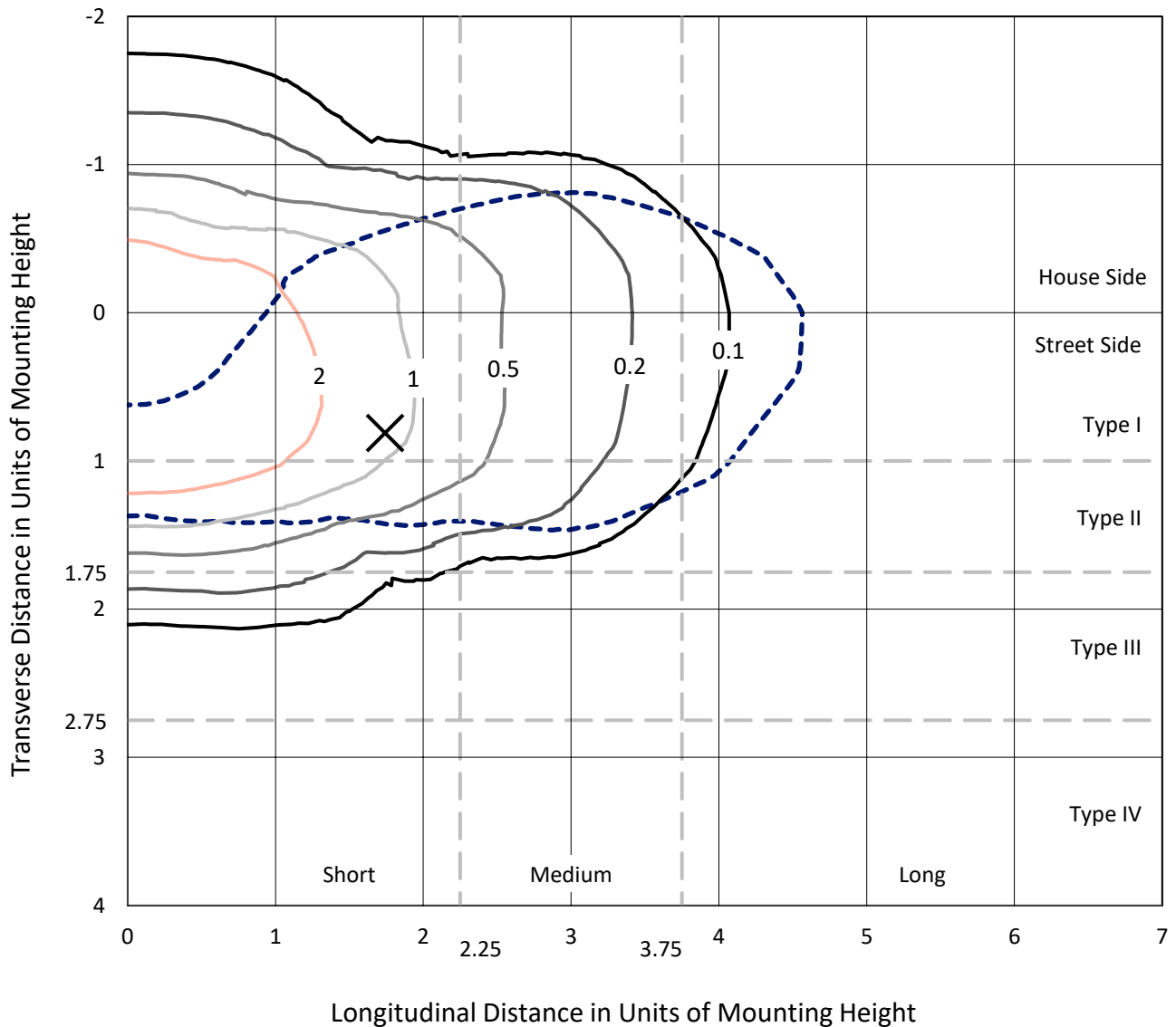
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

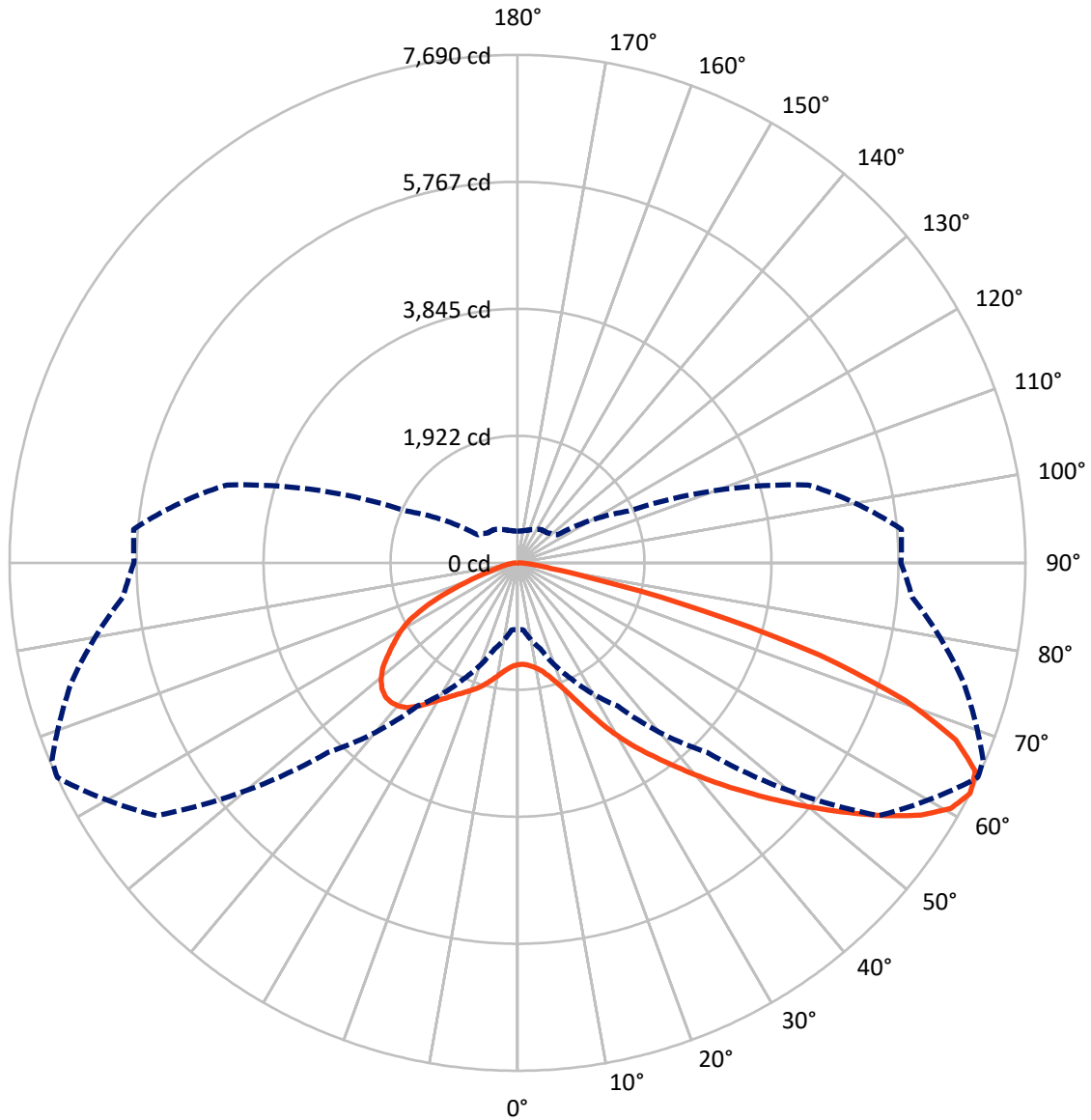
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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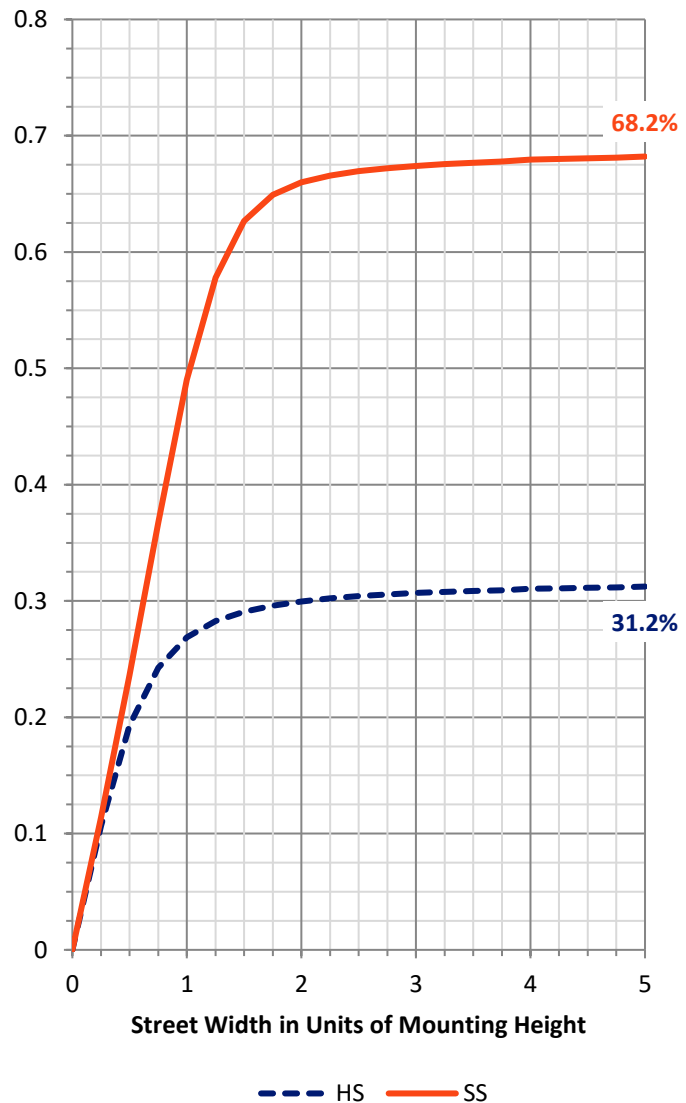
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4411.5	0.0	4411.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9568.5	0.0	9568.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	13980.0	0.0	13980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	1.1
10°-20°	520.8	3.7
20°-30°	1056.0	7.6
30°-40°	1827.5	13.1
40°-50°	2765.5	19.8
50°-60°	3242.4	23.2
60°-70°	2718.4	19.4
70°-80°	1500.8	10.7
80°-90°	194.9	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°	13980.0	100.0
0°-180°	13980.0	100.0

Coefficient of Utilization

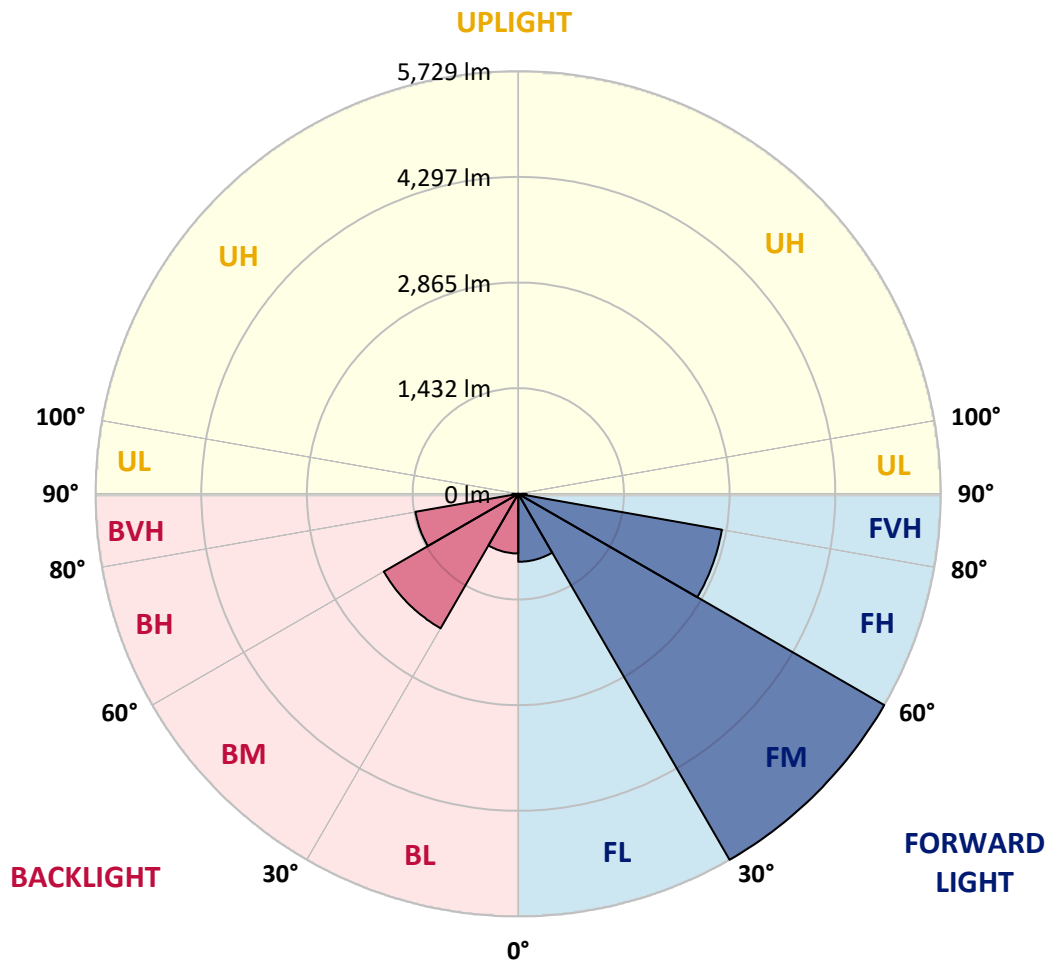


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.5	6.6			
FM (30°-60°)	5729.4	41.0			
FH (60°-80°)	2804.0	20.1			G2/5000
FVH (80°-90°)	113.6	0.8			G2/225
BL (0°-30°)	809.0	5.8	B2/1000		
BM (30°-60°)	2106.0	15.1	B2/2500		
BH (60°-80°)	1415.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	81.3	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°	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6
2.5°	1530.4	1526.0	1529.6	1529.6	1531.1	1530.4	1535.4	1536.9	1539.0	1543.4	1543.4
5°	1515.2	1514.4	1521.0	1526.7	1532.6	1537.6	1544.2	1553.6	1555.0	1560.2	1566.6
7.5°	1510.0	1505.7	1515.9	1523.1	1536.9	1549.2	1566.6	1582.6	1589.2	1591.3	1603.6
10°	1549.2	1542.0	1551.4	1555.7	1567.3	1579.7	1600.0	1625.3	1632.6	1641.3	1655.2
12.5°	1615.9	1608.0	1621.8	1628.3	1639.2	1650.0	1663.9	1688.5	1692.1	1708.1	1721.2
15°	1707.3	1697.9	1706.6	1714.6	1732.8	1742.9	1756.6	1780.6	1780.6	1792.9	1802.4
17.5°	1831.4	1819.1	1825.5	1828.5	1840.1	1855.4	1878.5	1899.5	1910.4	1906.1	1893.1
20°	2016.3	2001.1	2001.1	1986.6	1982.2	1994.5	2025.0	2054.0	2065.7	2043.1	2011.3
22.5°	2294.2	2272.3	2260.0	2210.7	2191.1	2192.6	2223.0	2258.6	2268.0	2228.1	2156.3
25°	2647.4	2613.2	2596.5	2524.1	2479.8	2441.3	2465.3	2510.9	2524.1	2474.8	2358.6
27.5°	3000.6	3002.7	2986.7	2899.7	2826.4	2756.1	2743.8	2791.7	2805.4	2749.6	2606.0
30°	3496.0	3444.4	3414.0	3309.5	3205.1	3106.5	3055.7	3075.3	3078.9	3012.2	2845.3
32.5°	3923.1	3910.1	3844.8	3753.4	3619.3	3464.7	3379.9	3348.7	3342.9	3247.9	3049.9
35°	4409.9	4402.6	4333.7	4224.8	4079.8	3865.1	3712.0	3622.9	3615.6	3482.1	3252.2
37.5°	4904.4	4904.4	4837.0	4718.1	4567.9	4299.6	4066.8	3925.3	3902.1	3728.0	3458.2
40°	5299.0	5275.1	5287.5	5237.3	5065.4	4780.4	4460.6	4255.3	4224.1	4015.2	3677.3
42.5°	5523.1	5515.1	5589.1	5645.0	5574.7	5346.9	4894.3	4612.9	4569.3	4331.4	3929.6
45°	5573.2	5564.5	5696.5	5901.0	5999.6	5906.0	5365.8	4989.3	4936.4	4662.2	4200.2
47.5°	5457.8	5440.5	5634.1	5956.9	6273.1	6437.7	5876.3	5397.6	5320.8	4984.3	4478.0
50°	5111.2	5094.5	5387.5	5816.2	6365.2	6798.9	6430.4	5830.7	5713.1	5329.5	4758.7
52.5°	4357.6	4365.6	4824.7	5413.6	6244.1	7023.8	6907.8	6286.8	6145.5	5682.7	5022.0
55°	3394.4	3411.8	3976.1	4624.5	5759.6	6989.7	7233.4	6756.9	6616.2	6014.9	5293.9
57.5°	2430.5	2507.4	3036.0	3678.0	4829.1	6449.3	7304.5	7203.7	7067.3	6377.5	5560.1
60°	1575.3	1589.2	2133.1	2780.1	3677.3	5489.1	7160.1	7542.4	7435.8	6747.5	5782.8
62.5°	1009.6	1019.1	1350.5	1944.5	2646.7	4060.9	6674.2	7689.7	7657.0	6991.8	5996.8
65°	742.0	734.7	907.3	1285.2	1782.8	2504.5	5730.6	7618.5	7683.1	7144.9	6173.8
67.5°	619.4	609.3	694.1	889.9	1313.5	1422.3	4240.1	7156.6	7392.9	7127.5	6303.5
70°	564.3	555.6	607.1	660.7	1024.8	952.3	2137.4	6221.6	6585.7	6929.5	6282.5
72.5°	478.0	462.8	533.1	586.8	797.1	730.4	883.4	4779.0	5222.9	6294.8	5986.6
75°	370.6	360.5	420.7	516.4	599.1	570.1	558.5	2901.9	3386.4	4868.2	5237.3
77.5°	293.8	279.9	335.1	402.5	538.9	430.1	406.9	1249.7	1729.8	3107.9	3918.8
80°	221.2	208.9	254.6	318.4	414.1	324.2	263.3	509.8	652.0	1574.6	1970.7
82.5°	157.4	146.5	177.7	233.5	278.5	290.9	161.7	285.8	321.3	607.1	440.2
85°	100.9	94.3	118.9	146.5	177.0	187.2	98.6	149.4	163.9	250.2	183.5
87.5°	55.1	45.0	63.9	68.2	82.0	74.7	47.2	54.4	58.7	90.7	77.6
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°	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6
2.5°	1546.3	1548.5	1555.7	1557.9	1563.0	1569.6	1573.9	1578.3	1578.3	1582.6	1582.6
5°	1567.3	1572.5	1587.7	1595.6	1608.7	1621.8	1629.7	1639.2	1645.0	1647.9	1649.3
7.5°	1608.0	1615.9	1637.7	1651.5	1674.0	1692.1	1704.5	1717.5	1720.4	1728.4	1725.5
10°	1663.1	1672.5	1697.2	1723.3	1750.2	1772.6	1784.2	1793.6	1797.3	1798.8	1795.1
12.5°	1726.2	1740.0	1771.9	1803.8	1832.1	1851.7	1854.6	1852.4	1842.2	1833.5	1833.5
15°	1803.8	1816.1	1851.7	1886.5	1914.1	1917.7	1899.5	1887.9	1875.6	1873.5	1873.5
17.5°	1896.7	1903.2	1935.8	1969.9	1972.1	1959.8	1932.9	1922.1	1910.4	1902.5	1903.2
20°	2004.7	2002.5	2025.7	2040.3	2025.0	1987.3	1946.7	1928.5	1917.0	1907.5	1908.2
22.5°	2133.8	2117.1	2114.3	2110.6	2070.0	1991.0	1935.8	1912.6	1894.5	1881.4	1885.8
25°	2321.7	2257.9	2213.6	2189.0	2097.6	1971.4	1901.0	1849.5	1815.4	1792.9	1801.6
27.5°	2556.7	2449.3	2337.6	2277.4	2097.6	1931.5	1816.9	1733.5	1677.6	1654.5	1666.0
30°	2780.8	2668.4	2503.8	2384.0	2092.4	1866.2	1681.2	1565.2	1499.9	1476.7	1490.5
32.5°	2972.3	2849.7	2680.0	2500.8	2080.1	1760.3	1513.0	1384.6	1321.5	1294.0	1307.7
35°	3149.9	3019.4	2857.0	2629.2	2047.5	1605.0	1328.0	1230.1	1159.8	1115.5	1130.1
37.5°	3332.0	3176.8	3024.5	2745.3	1988.8	1423.7	1185.8	1102.5	1019.8	960.3	976.2
40°	3530.0	3344.4	3203.6	2814.1	1892.3	1251.1	1075.6	999.5	911.7	848.6	860.9
42.5°	3761.4	3545.3	3403.1	2849.7	1760.3	1128.5	1003.8	929.1	846.4	794.9	805.0
45°	4002.9	3766.5	3585.1	2849.0	1613.0	1071.2	980.6	906.6	815.3	761.6	770.3
47.5°	4256.0	3997.8	3742.6	2802.6	1485.4	1079.2	967.5	858.0	757.2	705.0	712.3
50°	4509.9	4251.0	3894.9	2715.5	1431.0	1061.8	918.9	789.9	670.9	623.7	626.7
52.5°	4761.5	4520.0	4026.1	2591.5	1375.9	997.3	856.6	701.4	635.4	602.7	602.7
55°	5014.7	4786.2	4169.0	2410.9	1238.1	921.9	752.1	668.0	607.1	577.4	574.4
57.5°	5268.6	5093.7	4304.7	2230.3	1064.8	829.0	694.8	627.4	578.8	553.4	549.1
60°	5532.5	5445.5	4444.6	2064.2	893.6	710.0	652.7	594.7	545.4	517.1	515.0
62.5°	5804.6	5832.9	4554.2	1850.2	736.2	637.6	615.1	555.6	507.7	480.8	480.1
65°	6078.8	6206.4	4625.9	1553.6	597.0	568.7	574.4	512.8	464.2	441.0	440.2
67.5°	6285.4	6475.4	4605.6	1175.7	489.5	503.4	523.7	467.8	422.1	404.0	404.7
70°	6308.7	6443.6	4405.4	805.0	409.8	439.5	467.1	423.5	376.4	363.4	364.1
72.5°	5999.6	6008.3	3847.7	525.8	346.7	385.8	407.6	378.6	332.9	319.9	319.1
75°	5189.5	4969.0	2825.0	346.7	290.1	331.5	351.8	331.5	287.2	290.1	279.9
77.5°	3931.8	3519.1	1715.3	246.6	242.2	278.5	306.1	291.6	253.9	285.1	250.9
80°	2025.7	1903.9	765.2	184.2	191.5	222.6	251.6	232.8	200.9	191.5	174.8
82.5°	464.2	539.7	301.8	132.0	138.6	160.3	192.2	174.8	144.3	121.9	120.4
85°	162.5	177.7	133.5	82.7	81.3	100.0	130.6	116.7	97.9	78.3	82.7
87.5°	51.5	67.4	50.0	33.3	34.8	45.0	60.2	55.1	45.7	29.7	31.2
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)