

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: P963960

Luminaire Tested: **NAV-SB3B-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14278.2 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

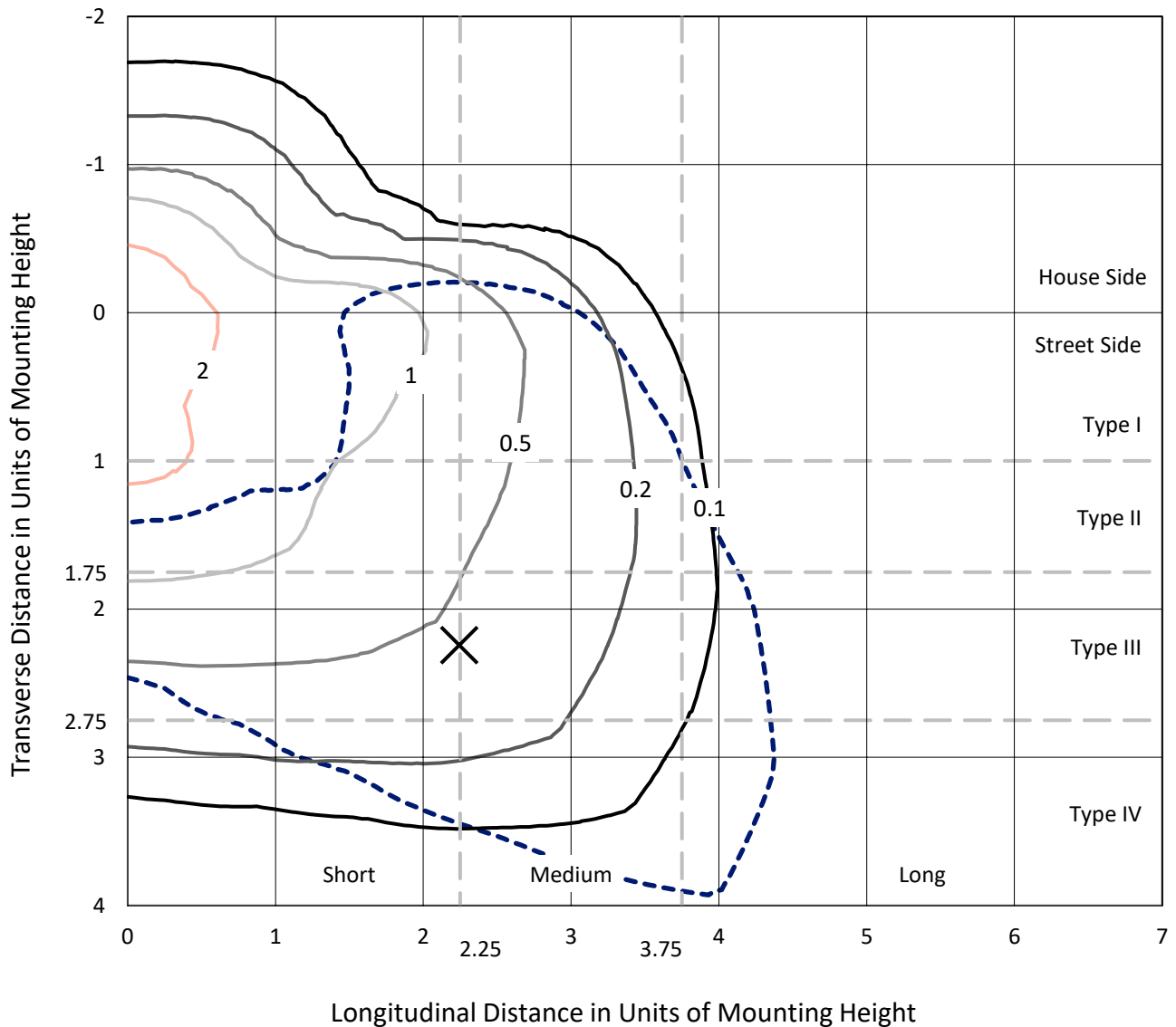
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P963960
 CATALOG NUMBER: NAV-SB3B-722-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

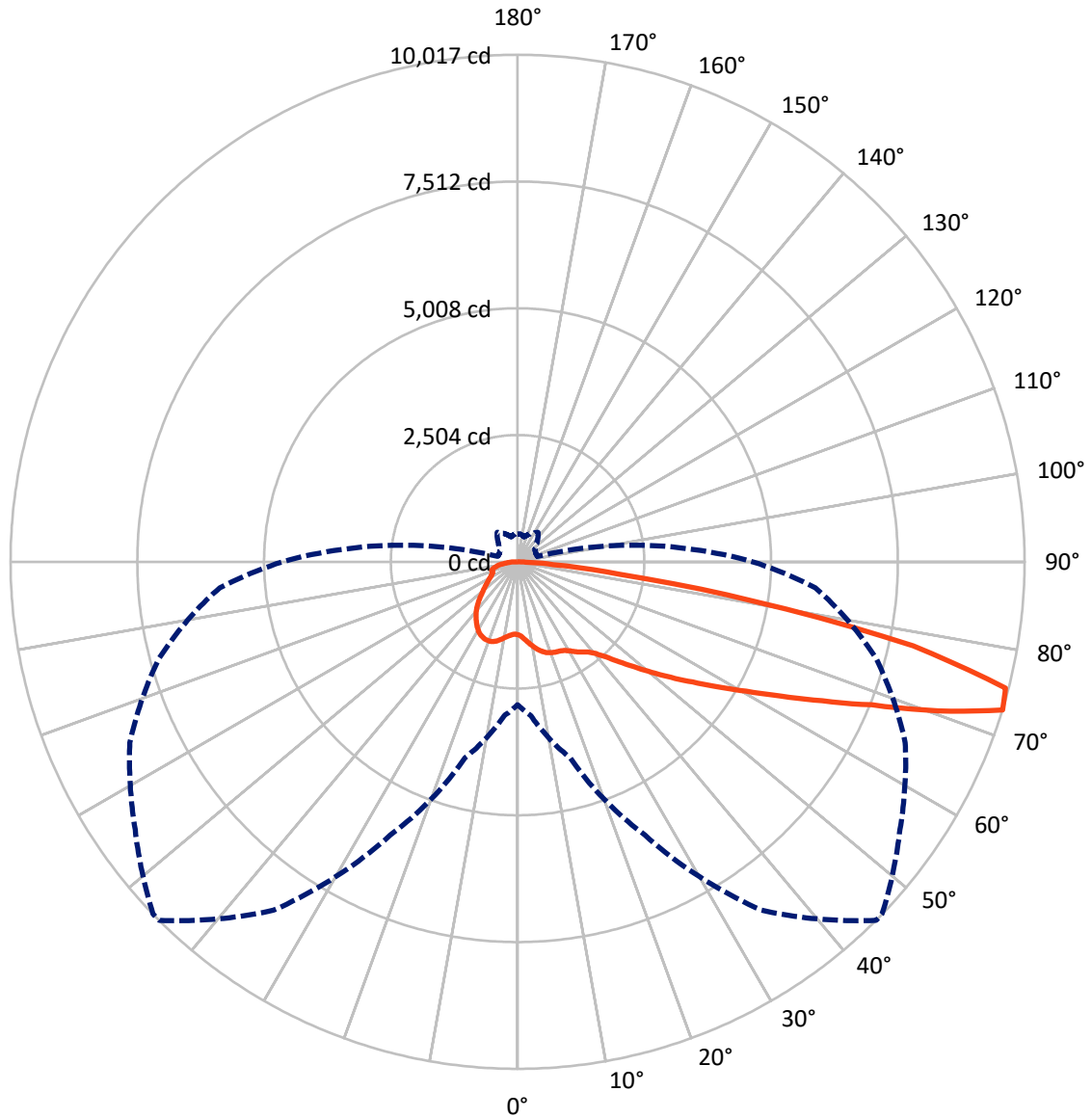
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P963960
CATALOG NUMBER: NAV-SB3B-722-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P963960
 CATALOG NUMBER: NAV-SB3B-722-U-T4W

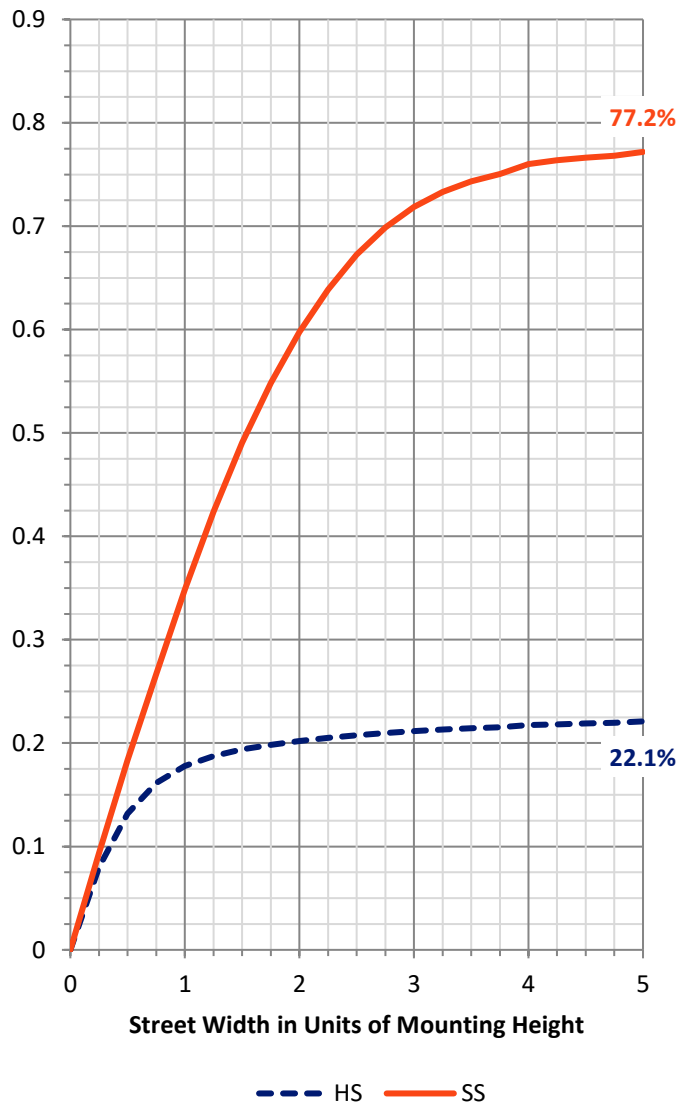
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3227.8	0.0	3227.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	11050.4	0.0	11050.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	14278.2	0.0	14278.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	1.0
10°-20°	488.8	3.4
20°-30°	850.3	6.0
30°-40°	1218.9	8.5
40°-50°	1716.3	12.0
50°-60°	2628.9	18.4
60°-70°	3808.4	26.7
70°-80°	3041.2	21.3
80°-90°	378.8	2.7
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°	14278.2	100.0
0°-180°	14278.2	100.0

Coefficient of Utilization



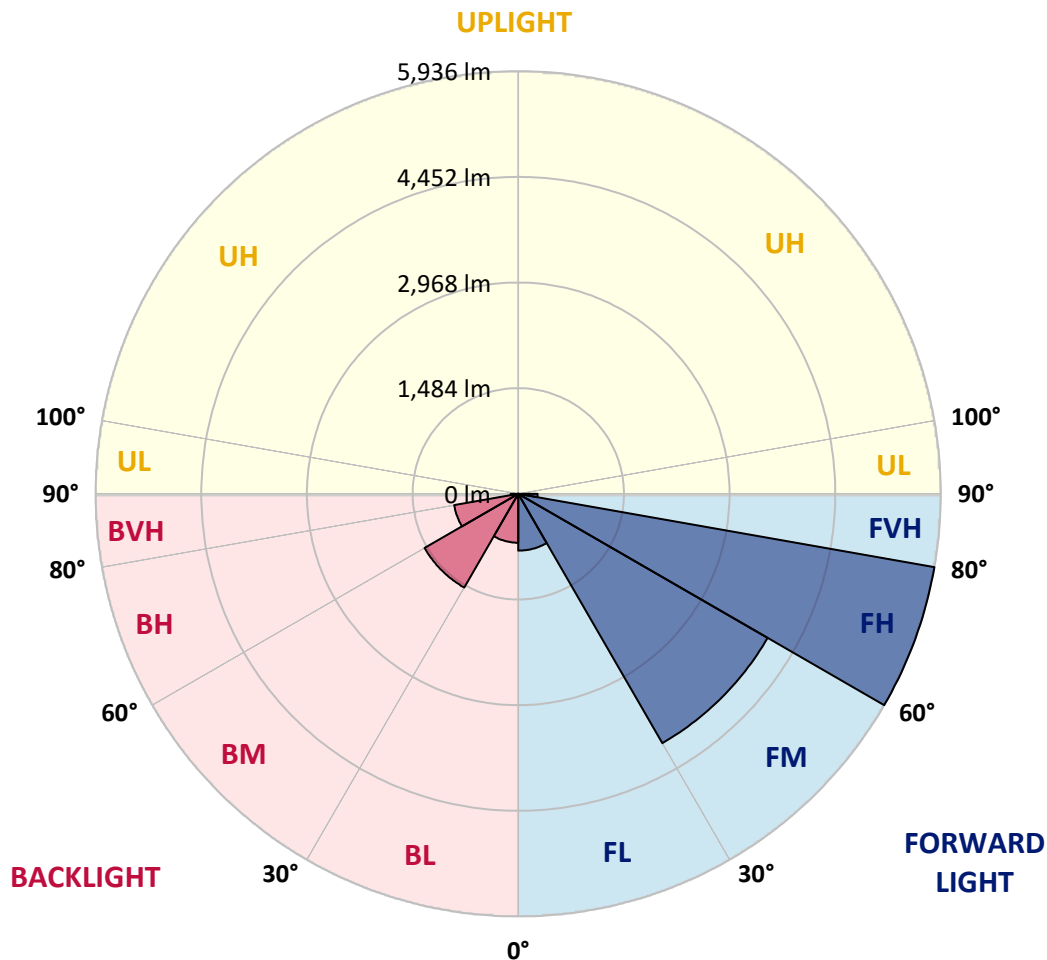
REPORT NUMBER: P963960
 CATALOG NUMBER: NAV-SB3B-722-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.5	5.6			
FM (30°-60°)	4044.3	28.3			
FH (60°-80°)	5935.9	41.6			G3/7500
FVH (80°-90°)	271.7	1.9			G3/500
BL (0°-30°)	687.2	4.8	B2/1000		
BM (30°-60°)	1519.8	10.6	B2/2500		
BH (60°-80°)	913.7	6.4	B2/1000		G2/1000
BVH (80°-90°)	107.0	0.7			G2/225
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 Short



REPORT NUMBER: P963960
 CATALOG NUMBER: NAV-SB3B-722-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4
2.5°	1496.8	1506.5	1497.5	1489.3	1485.5	1475.8	1475.0	1469.0	1465.2	1454.7	1451.7
5°	1601.4	1614.2	1599.1	1582.6	1567.5	1543.4	1540.5	1523.1	1503.6	1481.0	1468.2
7.5°	1719.4	1730.7	1713.4	1688.6	1662.2	1622.5	1621.7	1590.1	1559.2	1520.9	1499.1
10°	1822.4	1837.5	1814.2	1780.4	1747.3	1702.1	1696.9	1660.8	1621.7	1572.0	1538.9
12.5°	1913.5	1924.0	1901.5	1860.1	1821.7	1776.6	1769.9	1730.0	1686.3	1630.0	1587.8
15°	1985.7	1999.3	1969.1	1924.7	1884.2	1839.8	1833.8	1797.6	1754.1	1694.6	1640.5
17.5°	2033.1	2044.4	2013.5	1963.9	1924.7	1887.9	1883.4	1853.3	1815.0	1754.8	1696.9
20°	2051.1	2063.2	2030.8	1980.4	1944.3	1915.7	1913.5	1891.7	1865.4	1810.5	1751.8
22.5°	2069.2	2080.4	2038.4	1985.7	1954.2	1936.1	1935.3	1921.1	1910.5	1865.4	1808.2
25°	2142.1	2145.2	2088.7	2012.8	1967.7	1951.9	1951.1	1950.4	1954.9	1919.5	1869.1
27.5°	2205.4	2204.6	2156.5	2085.0	2015.0	1981.9	1981.2	1988.7	2003.1	1973.6	1932.3
30°	2297.8	2289.5	2232.4	2157.9	2094.1	2042.9	2038.4	2031.5	2042.9	2019.6	1995.5
32.5°	2494.1	2467.9	2375.3	2243.0	2159.5	2120.3	2114.4	2072.2	2076.8	2062.4	2050.4
35°	2775.5	2740.8	2617.5	2403.9	2240.8	2185.0	2182.0	2128.6	2119.6	2106.8	2111.3
37.5°	3110.2	3067.3	2923.7	2637.1	2380.6	2260.2	2255.7	2207.6	2170.7	2157.2	2182.7
40°	3446.5	3392.2	3273.4	2921.5	2586.7	2385.9	2371.5	2298.7	2256.5	2233.9	2288.1
42.5°	3772.8	3727.7	3626.1	3240.3	2840.9	2569.4	2537.8	2413.0	2381.4	2360.3	2458.1
45°	4061.7	4021.1	3946.7	3581.0	3138.8	2819.2	2788.3	2584.4	2574.7	2574.7	2716.0
47.5°	4296.4	4287.4	4208.3	3928.5	3490.0	3103.4	3050.0	2822.8	2849.2	2889.8	3082.4
50°	4556.6	4531.8	4447.6	4270.8	3903.0	3429.1	3385.5	3115.5	3214.0	3325.3	3611.9
52.5°	4795.8	4809.3	4715.3	4627.4	4369.4	3792.4	3715.7	3460.7	3673.6	3857.9	4232.4
55°	5041.8	5042.5	5016.1	5004.2	4858.2	4194.1	4109.8	3875.9	4214.4	4443.1	4956.0
57.5°	5272.7	5274.1	5313.3	5419.4	5425.3	4657.4	4561.9	4385.9	4815.3	5048.5	5702.2
60°	5478.7	5489.3	5596.1	5844.3	5924.1	5188.4	5098.1	4988.4	5436.7	5671.3	6486.7
62.5°	5548.0	5586.4	5824.0	6176.8	6416.7	5839.8	5751.1	5685.6	6089.5	6307.6	7142.6
65°	5430.7	5518.6	5978.2	6451.3	6923.7	6613.8	6525.8	6454.3	6768.0	6973.3	7681.1
67.5°	5142.5	5256.1	5969.2	6739.4	7539.0	7545.0	7463.0	7295.2	7495.3	7574.3	7856.4
70°	4383.6	4553.6	5443.5	6847.0	8245.2	8818.4	8739.5	8307.6	8221.2	7839.1	7363.0
72.5°	2824.4	3053.1	4008.3	5961.7	8402.4	10016.6	10012.1	9221.5	8450.6	7324.5	5905.2
75°	1030.4	1170.3	1862.3	3742.1	7053.0	9955.6	9985.0	9065.1	7714.3	5657.8	3678.8
77.5°	375.4	410.7	607.7	1438.2	4337.7	7988.0	8048.9	7247.2	5490.8	2839.5	1457.7
80°	197.1	216.6	311.4	558.1	1858.6	4743.9	4839.4	4306.9	2580.6	855.3	437.0
82.5°	109.1	118.1	174.5	303.1	837.1	2028.6	2085.8	1701.4	907.8	362.5	180.5
85°	58.6	62.4	82.0	165.4	409.2	703.3	719.0	508.5	361.8	212.9	87.2
87.5°	17.3	21.0	27.1	52.7	160.2	158.0	161.7	100.8	142.9	107.5	28.6
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: P963960
 CATALOG NUMBER: NAV-SB3B-722-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4
2.5°	1447.2	1444.9	1436.6	1432.8	1428.3	1427.6	1431.4	1432.1	1432.8	1433.7	1436.6
5°	1460.7	1453.1	1445.7	1441.1	1442.7	1443.4	1450.9	1456.2	1459.9	1463.0	1464.4
7.5°	1487.1	1481.0	1468.2	1467.5	1469.7	1476.5	1486.2	1498.3	1505.1	1510.3	1511.9
10°	1526.1	1514.8	1499.8	1502.0	1506.5	1516.4	1536.7	1546.4	1557.7	1567.5	1565.3
12.5°	1566.0	1556.3	1538.9	1540.5	1548.0	1565.3	1584.9	1596.8	1604.3	1611.9	1614.9
15°	1617.9	1600.6	1581.8	1581.8	1595.3	1614.2	1623.2	1632.9	1637.4	1645.7	1648.7
17.5°	1671.3	1648.7	1623.9	1622.5	1639.0	1648.0	1653.2	1654.8	1656.3	1665.3	1668.3
20°	1724.7	1699.9	1664.5	1661.5	1665.3	1663.8	1663.1	1661.5	1663.8	1675.1	1679.6
22.5°	1777.4	1748.8	1699.9	1686.3	1675.9	1661.5	1660.8	1660.0	1661.5	1672.8	1680.4
25°	1839.1	1804.4	1739.0	1698.4	1663.1	1643.5	1645.7	1646.5	1648.0	1657.0	1669.0
27.5°	1906.0	1867.7	1775.1	1694.6	1630.7	1617.1	1613.4	1615.6	1620.9	1635.2	1649.5
30°	1972.9	1927.8	1808.2	1679.6	1590.1	1571.3	1559.2	1564.5	1581.1	1595.3	1611.1
32.5°	2033.9	1988.7	1834.5	1646.5	1538.2	1508.8	1493.0	1499.8	1516.4	1521.6	1540.5
35°	2105.4	2054.2	1845.8	1593.9	1481.7	1436.6	1415.5	1405.8	1414.1	1408.8	1425.4
37.5°	2185.0	2131.6	1844.3	1524.7	1415.5	1363.7	1334.3	1297.4	1280.2	1262.2	1273.5
40°	2303.2	2226.4	1826.2	1441.1	1333.6	1286.2	1233.6	1171.2	1132.0	1096.6	1098.9
42.5°	2464.1	2358.0	1793.1	1349.4	1241.1	1196.7	1125.2	1052.3	990.6	931.9	926.7
45°	2704.1	2530.3	1751.8	1251.6	1141.0	1097.4	1020.0	938.0	868.0	792.7	783.7
47.5°	3050.0	2762.0	1712.7	1140.3	1035.8	995.9	925.9	849.9	767.2	694.2	685.9
50°	3525.4	3094.4	1676.6	1032.0	931.9	901.9	846.1	768.7	685.2	626.6	622.8
52.5°	4130.1	3546.5	1661.5	927.4	834.9	823.6	779.2	707.0	628.0	578.4	574.6
55°	4824.4	4087.3	1661.5	827.4	749.9	753.7	722.8	655.9	587.4	543.0	538.5
57.5°	5533.0	4634.8	1631.5	734.8	677.7	693.5	673.9	615.3	553.6	507.7	500.2
60°	6185.8	5093.6	1509.6	650.7	613.8	638.6	625.8	575.4	500.2	461.9	455.8
62.5°	6687.5	5352.4	1274.9	583.6	561.1	589.7	582.9	522.8	490.5	474.6	469.3
65°	6938.7	5310.3	974.8	524.3	516.7	561.1	546.8	544.6	519.0	500.9	495.0
67.5°	6784.6	4947.8	707.0	480.6	491.2	534.7	589.7	598.7	551.3	516.0	509.9
70°	6108.4	4291.9	526.5	439.3	458.8	535.6	672.4	626.6	540.8	499.5	492.7
72.5°	4646.8	3200.5	408.5	395.6	416.7	539.3	709.3	613.8	510.8	552.1	547.6
75°	2657.4	1757.1	327.9	342.2	364.1	504.0	690.4	580.7	487.4	507.0	507.0
77.5°	1013.2	675.5	270.8	289.6	292.6	440.0	660.4	578.4	464.1	452.8	413.0
80°	351.3	264.0	224.2	230.1	226.4	391.1	633.3	503.2	379.9	340.0	328.7
82.5°	143.7	131.6	177.5	169.9	160.9	303.9	511.5	411.4	310.7	274.5	271.5
85°	62.4	83.5	117.4	103.0	93.3	210.6	409.9	348.3	262.5	226.4	225.6
87.5°	12.8	31.6	49.6	46.6	48.2	140.6	291.1	247.4	185.8	139.2	109.1
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)