

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: P962410

Luminaire Tested: **NAV-SB2C-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962410
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-SB2C-727-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14210.6 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

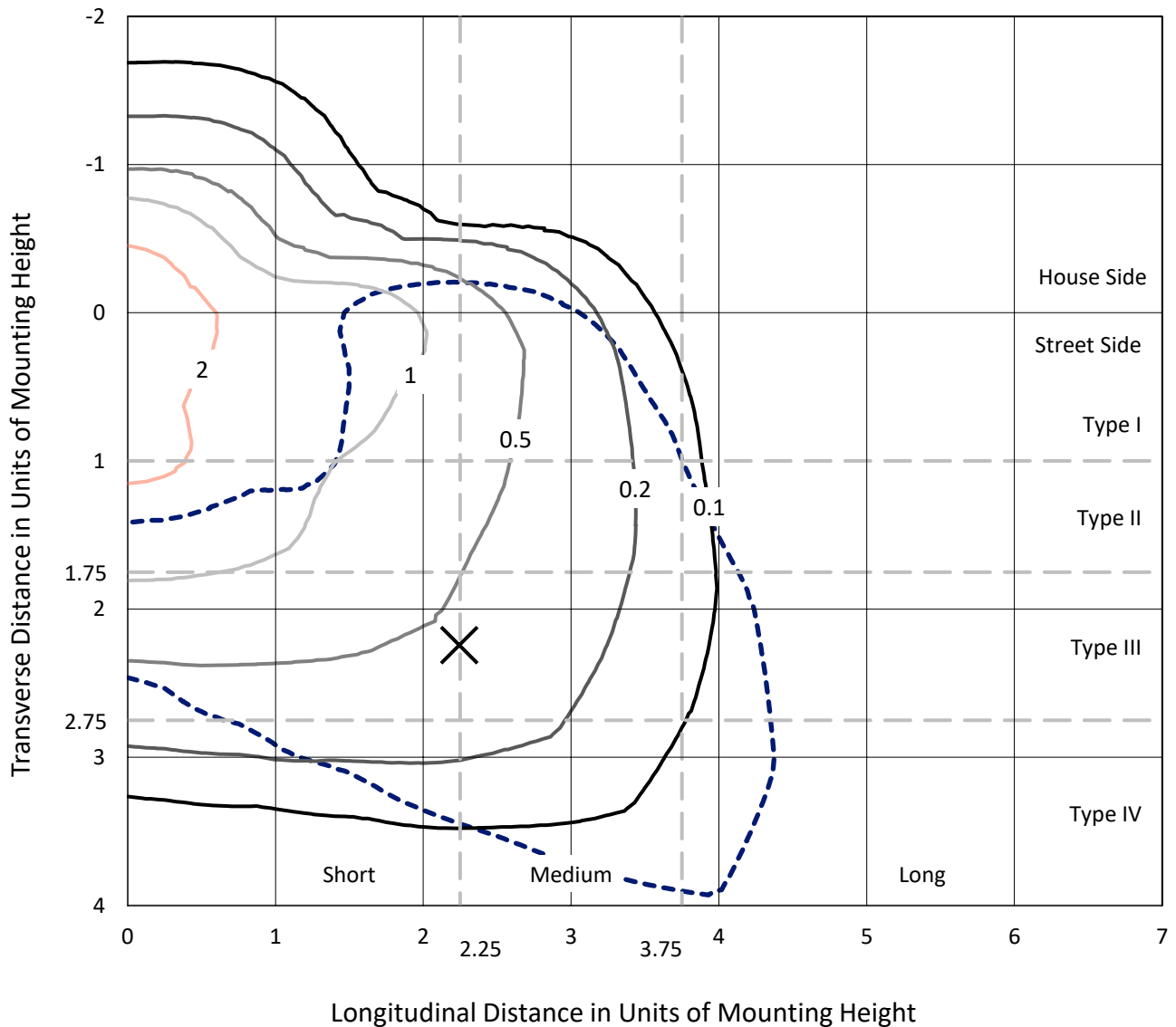
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

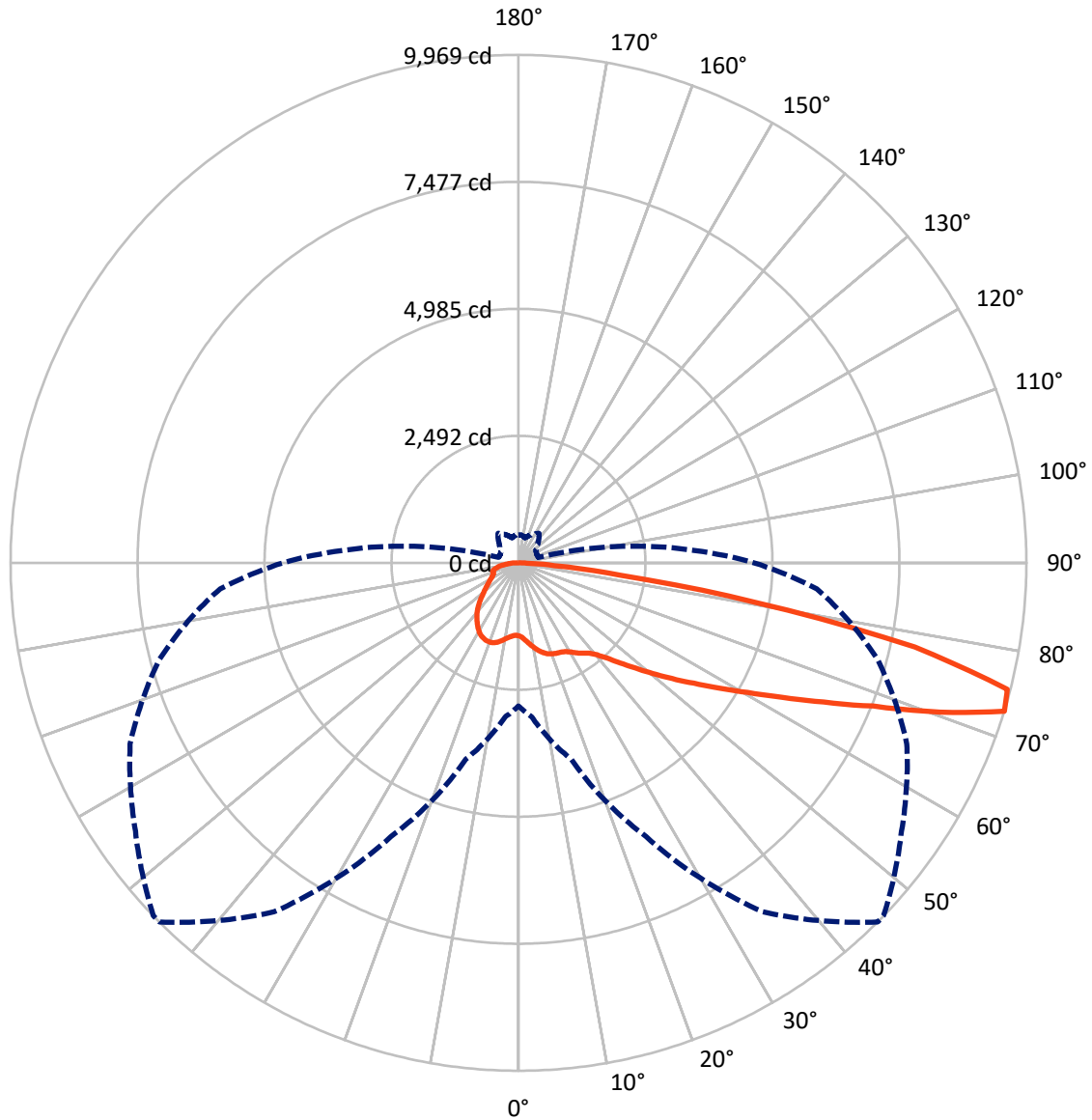
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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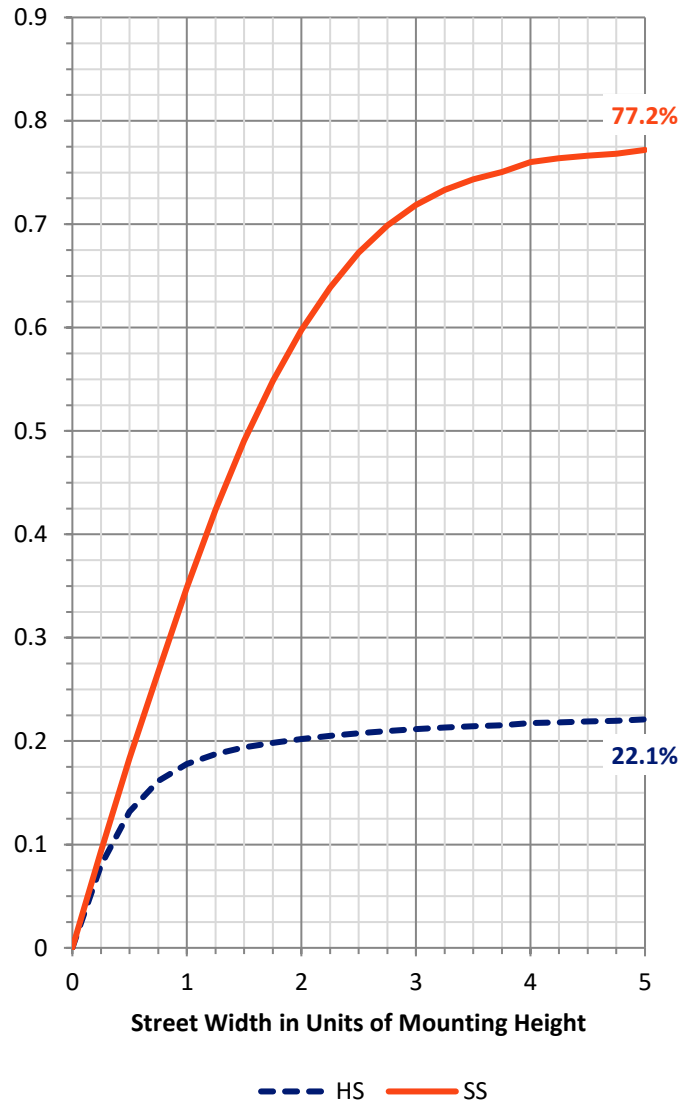
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3212.5	0.0	3212.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10998.1	0.0	10998.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	14210.6	0.0	14210.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	1.0
10°-20°	486.5	3.4
20°-30°	846.3	6.0
30°-40°	1213.2	8.5
40°-50°	1708.2	12.0
50°-60°	2616.5	18.4
60°-70°	3790.3	26.7
70°-80°	3026.8	21.3
80°-90°	377.0	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°	14210.6	100.0
0°-180°	14210.6	100.0

Coefficient of Utilization



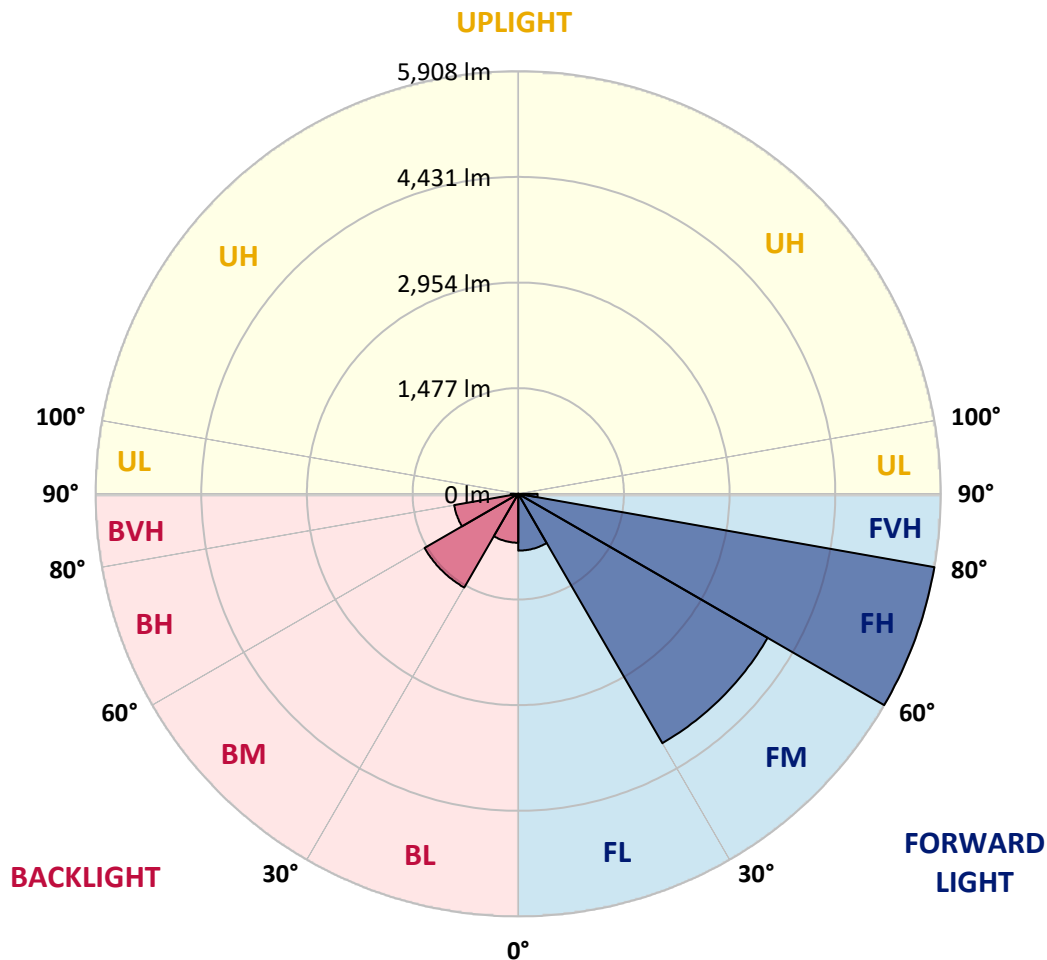
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	794.7	5.6			
FM (30°-60°)	4025.2	28.3			
FH (60°-80°)	5907.8	41.6			G3/7500
FVH (80°-90°)	270.4	1.9			G3/500
BL (0°-30°)	684.0	4.8	B2/1000		
BM (30°-60°)	1512.6	10.6	B2/2500		
BH (60°-80°)	909.4	6.4	B2/1000		G2/1000
BVH (80°-90°)	106.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6
2.5°	1489.7	1499.5	1490.5	1482.3	1478.5	1468.7	1468.0	1462.1	1458.3	1447.8	1444.8
5°	1593.8	1606.5	1591.5	1575.0	1560.0	1536.2	1533.1	1515.9	1496.5	1473.9	1461.2
7.5°	1711.3	1722.5	1705.3	1680.6	1654.5	1614.8	1614.0	1582.5	1551.8	1513.7	1492.0
10°	1813.8	1828.8	1805.6	1771.9	1739.0	1694.1	1688.9	1652.9	1614.0	1564.6	1531.7
12.5°	1904.4	1914.9	1892.5	1851.3	1813.1	1768.2	1761.5	1721.8	1678.3	1622.3	1580.3
15°	1976.3	1989.8	1959.8	1915.6	1875.2	1831.1	1825.1	1789.1	1745.8	1686.6	1632.7
17.5°	2023.5	2034.7	2004.0	1954.6	1915.6	1879.0	1874.5	1844.6	1806.4	1746.5	1688.9
20°	2041.4	2053.4	2021.2	1971.1	1935.1	1906.7	1904.4	1882.7	1856.6	1801.8	1743.5
22.5°	2059.4	2070.6	2028.7	1976.3	1944.8	1926.9	1926.2	1911.9	1901.5	1856.6	1799.6
25°	2132.0	2135.0	2078.9	2003.3	1958.4	1942.6	1941.9	1941.1	1945.7	1910.4	1860.3
27.5°	2194.9	2194.1	2146.2	2075.1	2005.5	1972.6	1971.8	1979.3	1993.5	1964.3	1923.2
30°	2287.0	2278.8	2221.9	2147.8	2084.1	2033.2	2028.7	2022.0	2033.2	2010.0	1986.0
32.5°	2482.3	2456.2	2364.1	2232.3	2149.2	2110.3	2104.3	2062.4	2066.9	2052.7	2040.7
35°	2762.4	2727.9	2605.1	2392.6	2230.1	2174.6	2171.7	2118.6	2109.6	2096.8	2101.4
37.5°	3095.5	3052.8	2909.8	2624.6	2369.3	2249.6	2245.1	2197.2	2160.5	2147.0	2172.5
40°	3430.1	3376.1	3258.0	2907.6	2574.5	2374.5	2360.4	2287.7	2245.8	2223.3	2277.2
42.5°	3755.0	3710.1	3609.0	3225.0	2827.5	2557.3	2525.8	2401.5	2370.1	2349.1	2446.5
45°	4042.5	4002.0	3927.9	3564.1	3123.9	2805.7	2775.1	2572.2	2562.5	2562.5	2703.2
47.5°	4276.0	4267.1	4188.5	3910.0	3473.5	3088.7	3035.5	2809.5	2835.7	2876.1	3067.7
50°	4535.0	4510.3	4426.5	4250.6	3884.5	3412.8	3369.5	3100.7	3198.8	3309.5	3594.8
52.5°	4773.1	4786.5	4693.0	4605.4	4348.7	3774.5	3698.1	3444.3	3656.2	3839.5	4212.3
55°	5017.9	5018.6	4992.5	4980.5	4835.2	4174.2	4090.4	3857.6	4194.4	4422.0	4932.5
57.5°	5247.7	5249.2	5288.1	5393.7	5399.7	4635.4	4540.2	4365.1	4792.6	5024.7	5675.1
60°	5452.8	5463.2	5569.6	5816.7	5896.0	5163.8	5074.1	4964.7	5410.9	5644.5	6456.0
62.5°	5521.7	5559.9	5796.4	6147.5	6386.4	5812.2	5723.8	5658.7	6060.7	6277.8	7108.7
65°	5404.9	5492.5	5949.9	6420.8	6890.9	6582.4	6494.9	6423.8	6735.9	6940.3	7644.8
67.5°	5118.2	5231.2	5940.9	6707.5	7503.2	7509.3	7427.7	7260.7	7459.8	7538.5	7819.1
70°	4362.8	4532.0	5417.6	6814.5	8206.2	8776.6	8698.0	8268.3	8182.3	7801.9	7328.0
72.5°	2811.0	3038.6	3989.3	5933.4	8362.7	9969.2	9964.6	9177.8	8410.5	7289.9	5877.2
75°	1025.6	1164.8	1853.5	3724.3	7019.6	9908.5	9937.7	9022.2	7677.7	5630.9	3661.4
77.5°	373.5	408.8	604.9	1431.3	4317.2	7950.1	8010.8	7212.8	5464.8	2825.9	1450.8
80°	196.1	215.6	310.0	555.4	1849.8	4721.5	4816.5	4286.4	2568.4	851.2	434.9
82.5°	108.5	117.6	173.6	301.7	833.2	2018.9	2075.8	1693.3	903.5	360.8	179.7
85°	58.4	62.1	81.6	164.7	407.2	700.0	715.7	506.0	360.1	211.9	86.8
87.5°	17.2	20.9	27.0	52.4	159.5	157.2	160.9	100.3	142.3	107.0	28.5
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°	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6	1433.6
2.5°	1440.3	1438.1	1429.9	1426.1	1421.6	1420.9	1424.5	1425.4	1426.1	1426.8	1429.9
5°	1453.8	1446.3	1438.8	1434.3	1435.8	1436.5	1444.0	1449.2	1453.0	1456.0	1457.6
7.5°	1480.0	1473.9	1461.2	1460.5	1462.8	1469.5	1479.3	1491.2	1497.9	1503.2	1504.7
10°	1518.9	1507.7	1492.7	1495.0	1499.5	1509.2	1529.4	1539.1	1550.3	1560.0	1557.8
12.5°	1558.6	1548.9	1531.7	1533.1	1540.6	1557.8	1577.3	1589.3	1596.7	1604.2	1607.2
15°	1610.3	1593.1	1574.3	1574.3	1587.8	1606.5	1615.5	1625.2	1629.7	1637.9	1640.9
17.5°	1663.4	1640.9	1616.2	1614.8	1631.2	1640.2	1645.4	1647.0	1648.4	1657.4	1660.4
20°	1716.6	1691.9	1656.7	1653.6	1657.4	1655.9	1655.2	1653.6	1655.9	1667.2	1671.7
22.5°	1768.9	1740.4	1691.9	1678.3	1667.9	1653.6	1652.9	1652.2	1653.6	1664.9	1672.4
25°	1830.3	1795.9	1730.8	1690.3	1655.2	1635.7	1637.9	1638.7	1640.2	1649.1	1661.1
27.5°	1897.0	1858.7	1766.7	1686.6	1623.0	1609.5	1605.8	1608.0	1613.2	1627.5	1641.6
30°	1963.6	1918.7	1799.6	1671.7	1582.5	1563.8	1551.8	1557.1	1573.6	1587.8	1603.5
32.5°	2024.2	1979.3	1825.8	1638.7	1530.9	1501.7	1485.9	1492.7	1509.2	1514.4	1533.1
35°	2095.3	2044.5	1837.1	1586.3	1474.8	1429.9	1408.9	1399.1	1407.3	1402.1	1418.6
37.5°	2174.6	2121.5	1835.6	1517.4	1408.9	1357.2	1328.0	1291.3	1274.1	1256.1	1267.4
40°	2292.2	2215.8	1817.6	1434.3	1327.3	1280.1	1227.7	1165.5	1126.7	1091.4	1093.7
42.5°	2452.4	2346.8	1784.6	1343.0	1235.2	1191.0	1119.9	1047.3	985.9	927.5	922.3
45°	2691.2	2518.3	1743.5	1245.7	1135.6	1092.2	1015.1	933.5	863.9	789.0	780.0
47.5°	3035.5	2748.8	1704.6	1134.9	1030.8	991.2	921.6	845.9	763.6	691.0	682.8
50°	3508.7	3079.7	1668.6	1027.0	927.5	897.6	842.1	765.1	681.9	623.6	619.8
52.5°	4110.6	3529.7	1653.6	923.0	831.0	819.7	775.5	703.7	625.0	575.6	571.9
55°	4801.5	4067.9	1653.6	823.5	746.4	750.1	719.4	652.8	584.7	540.5	536.0
57.5°	5506.7	4612.9	1623.7	731.3	674.4	690.2	670.8	612.3	550.9	505.3	497.8
60°	6156.5	5069.5	1502.4	647.5	610.9	635.6	622.8	572.7	497.8	459.6	453.7
62.5°	6655.8	5327.0	1268.8	580.9	558.4	586.9	580.2	520.3	488.1	472.3	467.1
65°	6905.8	5285.1	970.2	521.7	514.2	558.4	544.3	542.0	516.5	498.6	492.6
67.5°	6752.4	4924.3	703.7	478.4	488.8	532.3	586.9	595.9	548.7	513.5	507.6
70°	6079.4	4271.5	524.0	437.2	456.6	533.0	669.2	623.6	538.2	497.0	490.4
72.5°	4624.9	3185.3	406.5	393.8	414.7	536.8	705.9	610.9	508.3	549.5	545.0
75°	2644.8	1748.8	326.4	340.6	362.3	501.5	687.3	577.9	485.1	504.6	504.6
77.5°	1008.4	672.2	269.5	288.2	291.2	438.0	657.2	575.6	461.9	450.7	411.0
80°	349.6	262.8	223.0	229.1	225.3	389.3	630.3	500.8	378.0	338.4	327.2
82.5°	143.0	131.0	176.7	169.2	160.2	302.5	509.0	409.5	309.1	273.3	270.3
85°	62.1	83.1	116.7	102.6	92.9	209.6	408.0	346.6	261.3	225.3	224.6
87.5°	12.7	31.5	49.4	46.4	47.9	140.0	289.7	246.3	184.9	138.5	108.5
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)