

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: P962360

Luminaire Tested: **NAV-SB2C-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962360
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-SB2C-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12570.6 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

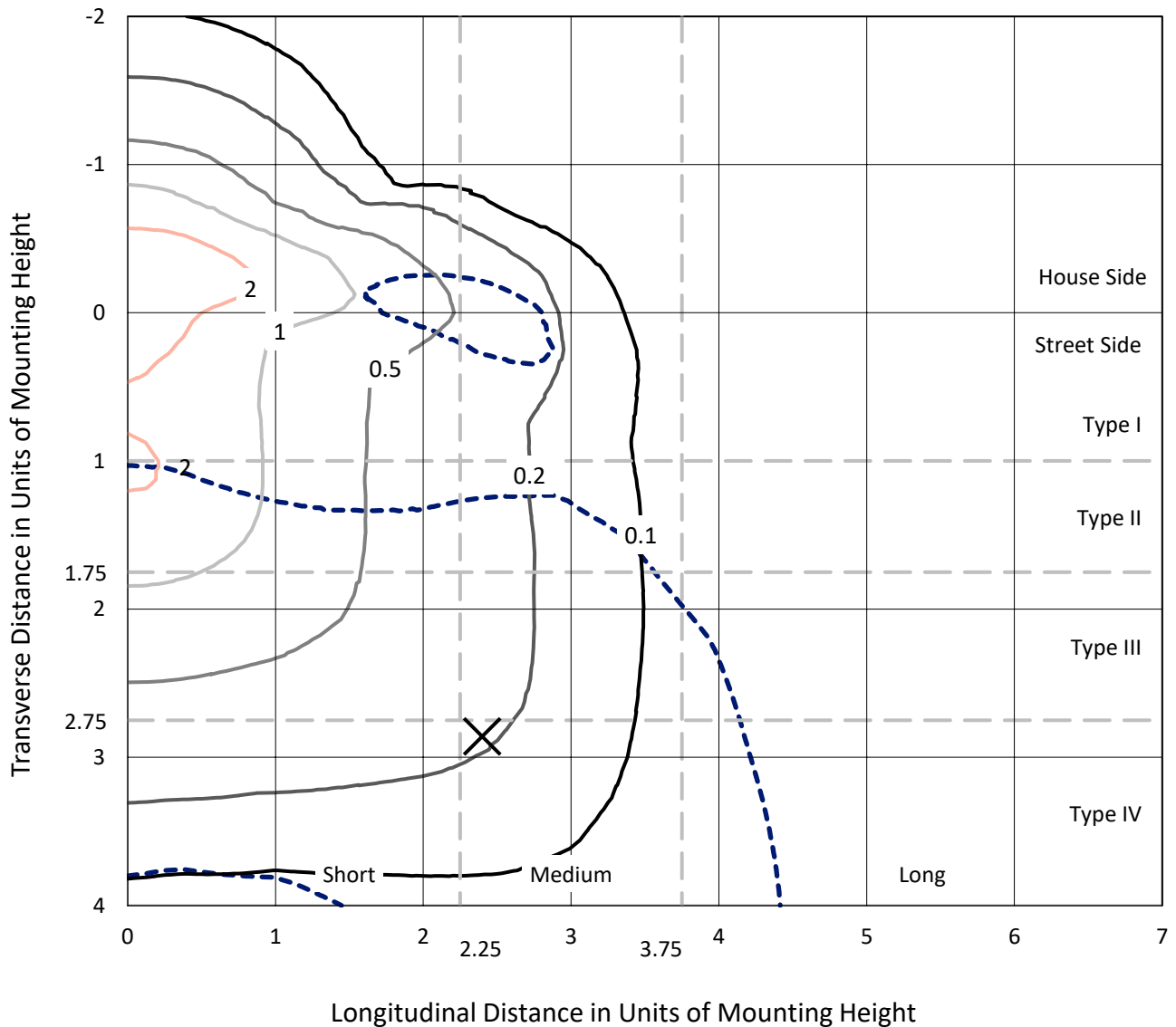
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

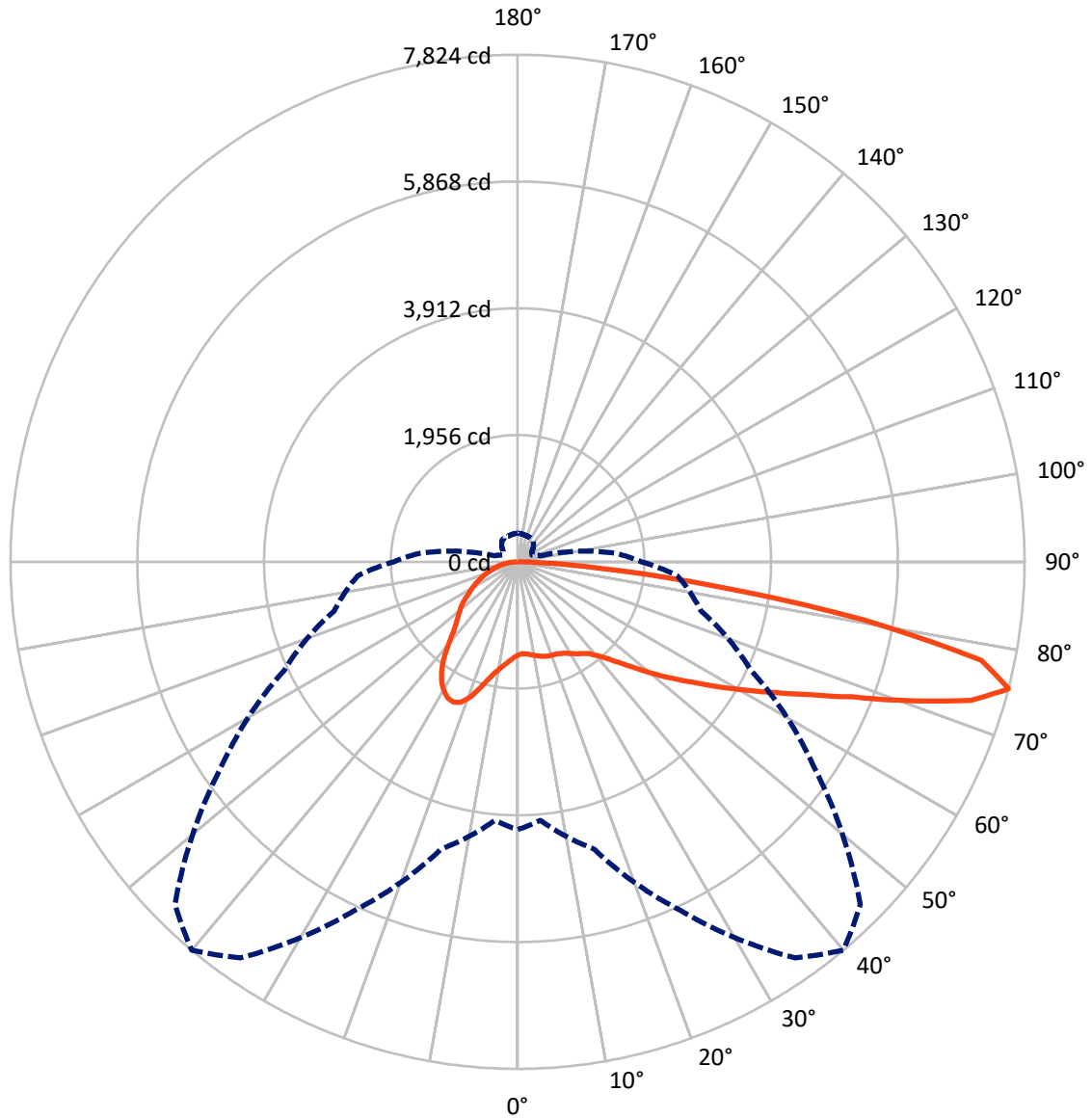
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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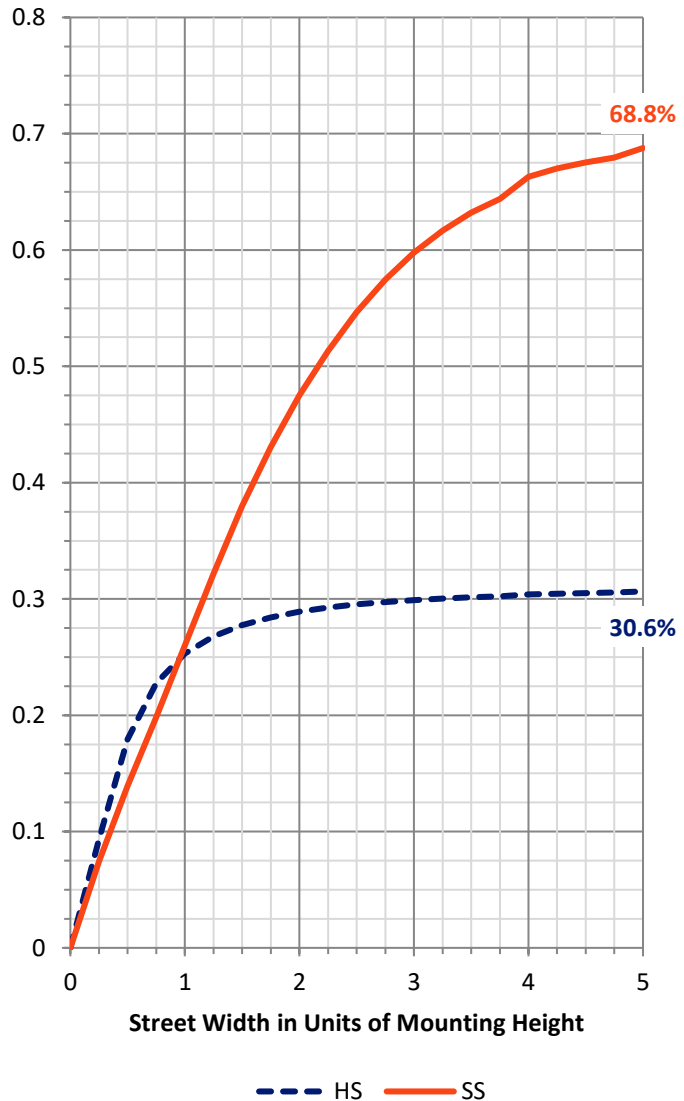
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3894.8	0.0	3894.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	8675.8	0.0	8675.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	12570.6	0.0	12570.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	1.1
10°-20°	481.7	3.8
20°-30°	879.6	7.0
30°-40°	1247.6	9.9
40°-50°	1684.6	13.4
50°-60°	2266.2	18.0
60°-70°	2876.4	22.9
70°-80°	2610.5	20.8
80°-90°	380.5	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°	12570.6	100.0
0°-180°	12570.6	100.0

Coefficient of Utilization

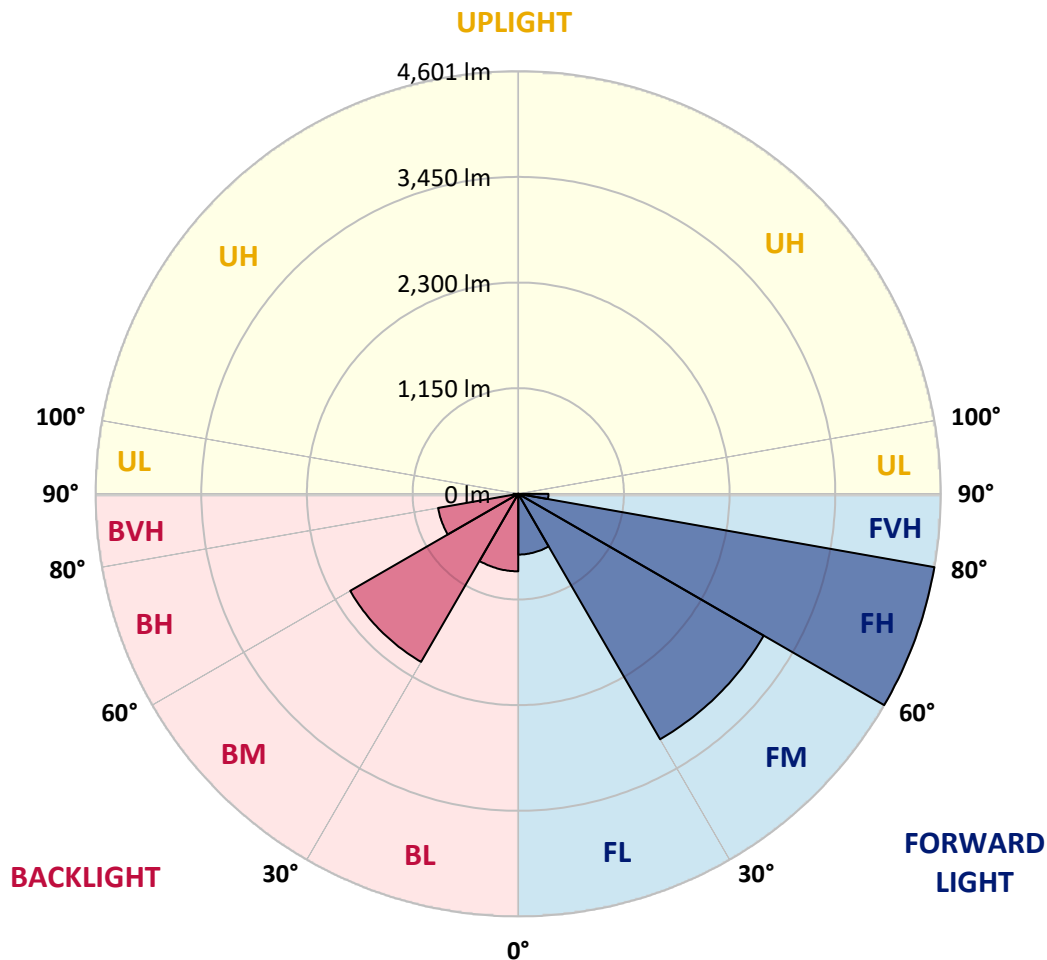


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.2	5.3			
FM (30°-60°)	3085.8	24.5			
FH (60°-80°)	4600.6	36.6			G2/5000
FVH (80°-90°)	328.1	2.6			G3/500
BL (0°-30°)	843.6	6.7	B2/1000		
BM (30°-60°)	2112.6	16.8	B2/2500		
BH (60°-80°)	886.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	52.4	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°	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5
2.5°	1415.4	1423.4	1421.5	1418.8	1418.8	1419.4	1418.8	1423.4	1428.1	1432.8	1440.1
5°	1430.1	1438.2	1434.2	1430.8	1428.1	1427.4	1425.5	1424.7	1427.4	1433.5	1443.5
7.5°	1458.8	1466.8	1460.8	1454.8	1449.5	1446.8	1444.1	1440.1	1438.2	1441.5	1455.5
10°	1490.8	1498.8	1491.5	1480.8	1472.1	1468.8	1466.2	1462.2	1459.5	1461.4	1476.8
12.5°	1522.8	1530.8	1520.8	1506.1	1494.8	1492.8	1489.4	1488.1	1487.5	1486.8	1502.1
15°	1552.8	1559.4	1546.8	1529.5	1517.5	1514.1	1510.8	1512.8	1516.2	1520.2	1537.5
17.5°	1576.1	1582.8	1564.1	1541.5	1530.1	1528.8	1526.8	1533.5	1542.8	1552.8	1574.2
20°	1597.5	1604.1	1580.1	1549.5	1536.2	1536.2	1536.8	1550.8	1564.1	1578.8	1608.1
22.5°	1627.5	1632.8	1603.5	1561.5	1542.1	1543.4	1548.8	1562.8	1579.5	1599.5	1640.1
25°	1672.2	1676.2	1640.1	1584.1	1562.1	1566.1	1570.8	1577.5	1593.5	1616.8	1671.5
27.5°	1744.1	1747.5	1700.2	1624.1	1590.8	1597.5	1604.1	1599.5	1606.8	1626.8	1696.8
30°	1845.5	1847.5	1787.5	1686.8	1639.5	1642.8	1644.1	1624.8	1610.8	1626.8	1714.8
32.5°	1965.5	1964.8	1893.5	1762.8	1694.8	1691.5	1680.2	1642.2	1609.5	1623.5	1730.8
35°	2151.6	2144.2	2052.2	1869.5	1757.5	1736.9	1710.1	1661.5	1616.1	1620.1	1744.9
37.5°	2459.6	2436.9	2309.5	2044.2	1850.8	1798.2	1758.8	1692.8	1630.8	1618.8	1761.5
40°	2807.0	2778.3	2638.2	2283.5	1990.9	1906.2	1842.8	1737.5	1654.9	1624.8	1786.2
42.5°	3218.9	3178.3	3027.6	2565.6	2168.2	2045.5	1950.2	1794.2	1690.1	1644.1	1819.5
45°	3725.1	3671.0	3457.6	2883.6	2391.5	2228.2	2100.8	1880.2	1744.1	1681.5	1869.5
47.5°	4236.4	4249.8	3946.4	3247.6	2659.6	2453.5	2289.5	2009.5	1822.9	1741.5	1950.2
50°	4779.8	4789.1	4432.4	3651.0	2963.6	2708.3	2501.5	2154.2	1932.2	1826.9	2070.8
52.5°	5203.8	5205.2	4873.8	4073.0	3280.3	2988.3	2730.3	2319.6	2058.8	1940.2	2231.5
55°	5469.2	5465.8	5183.1	4472.4	3644.3	3282.3	2983.6	2507.6	2213.5	2073.5	2433.6
57.5°	5661.9	5651.8	5396.5	4815.8	4032.3	3629.6	3270.3	2721.0	2396.2	2232.2	2699.5
60°	5735.2	5729.2	5541.2	5112.5	4440.4	4013.7	3601.0	2959.6	2603.6	2419.5	3041.6
62.5°	5763.2	5774.5	5683.2	5399.8	4877.2	4439.1	3964.4	3244.9	2836.9	2631.6	3402.3
65°	5861.9	5882.6	5863.8	5775.9	5370.5	4937.1	4446.4	3584.3	3091.6	2858.9	3779.0
67.5°	6057.2	6077.8	6085.9	6226.0	5973.2	5557.9	5047.8	4007.0	3389.7	3095.0	4062.4
70°	6052.5	6046.6	6187.9	6584.0	6728.0	6417.2	5858.5	4527.1	3745.0	3291.0	4098.4
72.5°	5509.2	5461.2	5795.2	6579.9	7356.0	7314.7	6848.6	5197.8	4051.7	3315.0	3556.3
75°	4133.0	4005.0	4595.1	5929.8	7460.7	7824.0	7478.0	5613.8	3979.0	2928.9	2474.9
77.5°	1767.5	1638.8	2334.2	4389.8	6677.3	7314.0	6900.6	4897.8	3176.3	1936.8	1215.4
80°	462.7	462.1	705.4	1990.1	4541.1	5401.1	4738.5	3162.9	1814.9	692.1	335.4
82.5°	191.4	186.7	259.3	774.1	2218.9	3030.9	2473.5	1410.8	655.4	187.4	111.3
85°	71.3	70.6	126.0	267.3	782.7	1250.1	904.8	360.7	163.4	91.3	50.0
87.5°	20.0	19.4	27.4	92.7	190.6	289.4	154.7	59.3	46.0	36.0	14.7
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°	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5	1437.5
2.5°	1442.2	1445.5	1451.5	1456.1	1462.2	1468.8	1478.2	1484.1	1490.1	1494.1	1491.5
5°	1448.1	1455.5	1470.8	1486.1	1504.2	1520.8	1540.2	1554.1	1565.5	1568.8	1570.1
7.5°	1461.4	1473.4	1499.5	1525.5	1554.1	1581.5	1609.5	1633.4	1652.8	1660.2	1660.8
10°	1484.8	1500.8	1537.5	1574.2	1612.1	1654.1	1690.1	1724.9	1752.1	1763.5	1764.1
12.5°	1514.1	1534.1	1582.2	1632.8	1685.5	1743.5	1790.2	1832.8	1866.8	1882.2	1882.2
15°	1552.2	1578.2	1639.5	1707.4	1784.8	1865.5	1924.8	1972.2	2010.2	2028.9	2027.6
17.5°	1593.5	1628.1	1705.5	1808.2	1918.8	2024.9	2094.2	2128.8	2168.2	2186.2	2185.5
20°	1633.4	1676.2	1786.8	1936.2	2083.5	2196.2	2252.2	2261.6	2264.2	2266.2	2271.5
22.5°	1674.8	1732.1	1888.9	2097.6	2255.5	2333.5	2341.5	2301.5	2245.6	2219.5	2226.9
25°	1720.2	1796.2	2022.2	2275.5	2403.5	2412.8	2351.6	2254.2	2148.2	2099.5	2106.9
27.5°	1764.1	1870.2	2182.2	2445.5	2510.2	2428.2	2296.2	2158.2	2030.2	1978.9	1984.8
30°	1808.2	1954.9	2358.8	2594.3	2558.9	2390.2	2208.9	2054.8	1926.2	1872.2	1878.2
32.5°	1852.8	2053.5	2562.2	2701.6	2550.2	2309.5	2100.2	1938.9	1825.5	1768.8	1776.1
35°	1903.5	2174.8	2754.9	2760.2	2492.2	2190.8	1956.8	1800.2	1701.5	1656.2	1666.1
37.5°	1969.5	2328.9	2924.9	2774.9	2390.9	2016.9	1778.8	1636.1	1554.8	1534.1	1548.8
40°	2051.5	2514.2	3054.9	2751.6	2240.9	1805.5	1584.1	1470.2	1424.1	1428.7	1444.8
42.5°	2158.2	2721.6	3146.2	2691.5	2032.2	1587.5	1413.5	1362.8	1384.8	1403.4	1420.8
45°	2296.9	2936.9	3202.9	2589.6	1796.2	1402.8	1312.8	1324.8	1341.4	1343.5	1356.8
47.5°	2474.2	3155.0	3240.3	2435.6	1555.4	1272.7	1248.8	1251.4	1248.1	1234.1	1244.8
50°	2695.5	3367.0	3273.6	2231.5	1350.7	1191.5	1159.5	1150.2	1104.1	1058.7	1064.8
52.5°	2947.6	3561.7	3287.6	1978.1	1191.5	1123.4	1071.4	1012.8	926.7	912.8	917.4
55°	3227.6	3741.7	3251.6	1666.9	1057.4	1036.1	957.5	886.7	877.4	865.4	867.5
57.5°	3562.3	3935.7	3178.3	1319.5	920.0	934.1	857.4	865.4	848.7	830.0	826.8
60°	3928.3	4136.4	3049.6	1002.8	778.1	806.8	831.4	830.8	826.0	810.8	805.4
62.5°	4257.7	4268.4	2796.3	768.0	653.4	708.1	775.4	774.7	770.7	762.1	758.7
65°	4453.7	4248.4	2373.6	604.8	550.7	626.7	699.4	704.7	705.4	704.7	704.7
67.5°	4419.1	4014.4	1793.5	481.3	466.1	544.1	624.0	631.4	636.7	638.1	639.4
70°	4027.0	3500.3	1169.4	384.1	390.7	471.4	552.7	560.1	564.7	570.0	572.8
72.5°	3139.0	2573.6	669.4	310.7	324.7	408.7	482.1	490.7	493.3	503.4	507.4
75°	1912.9	1513.5	361.4	244.7	266.7	349.3	412.0	422.0	426.7	438.7	440.0
77.5°	909.4	655.4	206.0	190.6	214.7	285.4	348.0	359.4	346.7	353.3	348.0
80°	307.4	243.3	130.0	145.3	164.0	222.7	278.7	290.1	263.3	262.0	259.3
82.5°	107.3	98.7	82.7	96.7	106.0	159.4	210.6	225.4	196.0	195.4	186.0
85°	42.0	40.0	46.0	52.7	63.3	98.0	138.7	146.1	120.6	97.4	96.0
87.5°	8.7	9.3	11.4	12.0	19.4	34.0	50.0	61.3	48.7	41.3	38.0
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)