

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: P961895

Luminaire Tested: **NAV-SB2B-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961895
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-SB2B-730-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11442.1 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

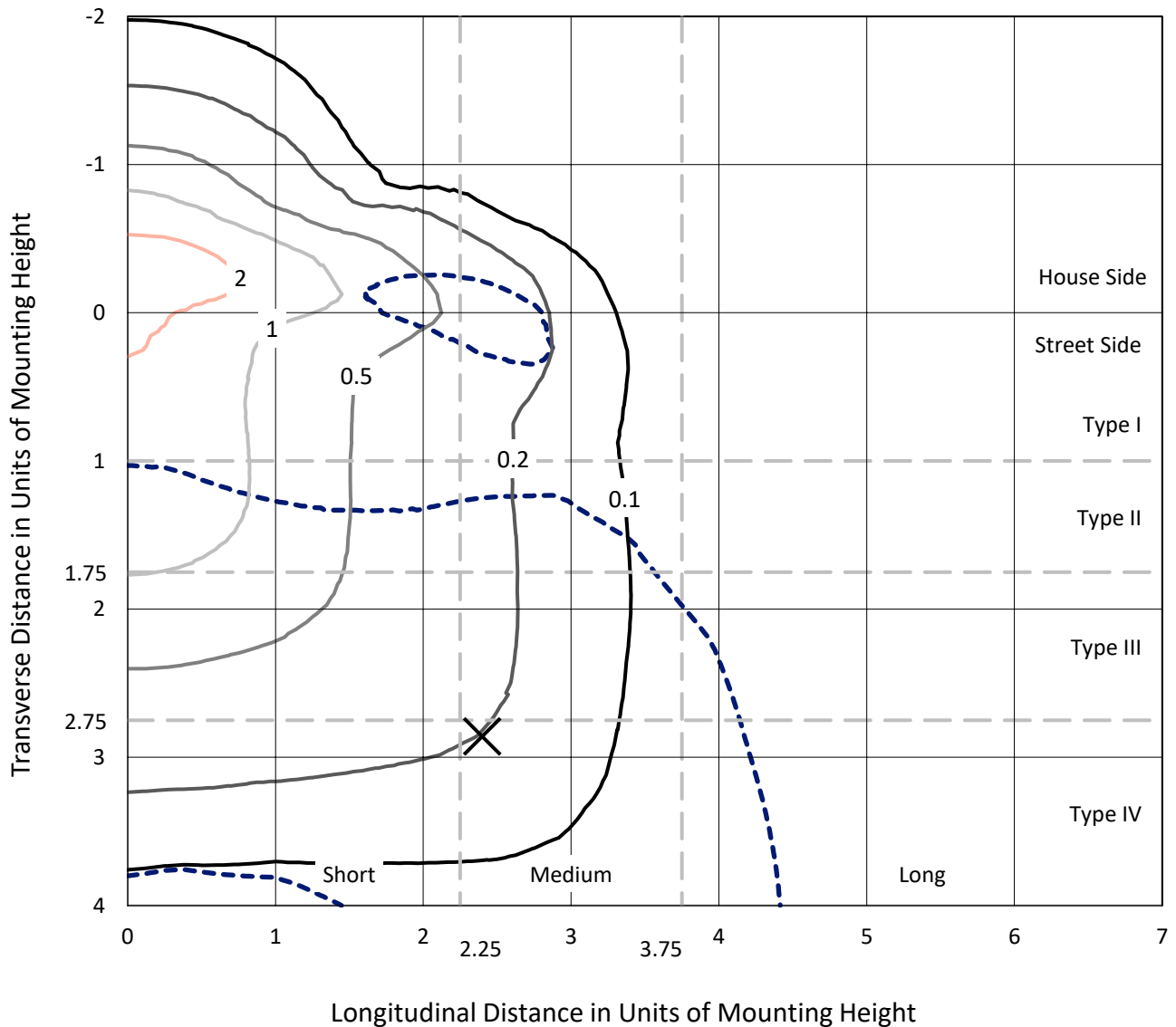
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

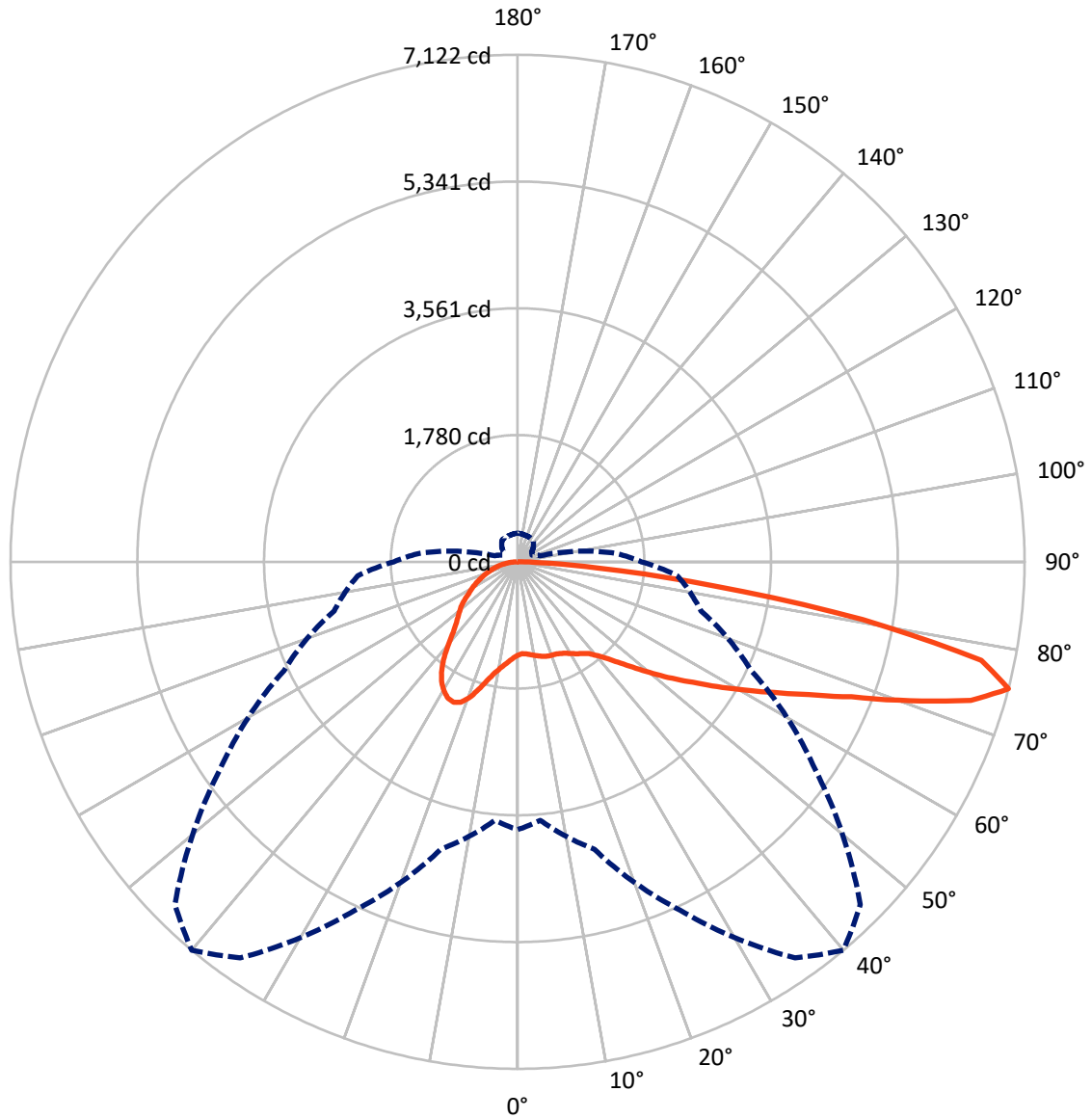
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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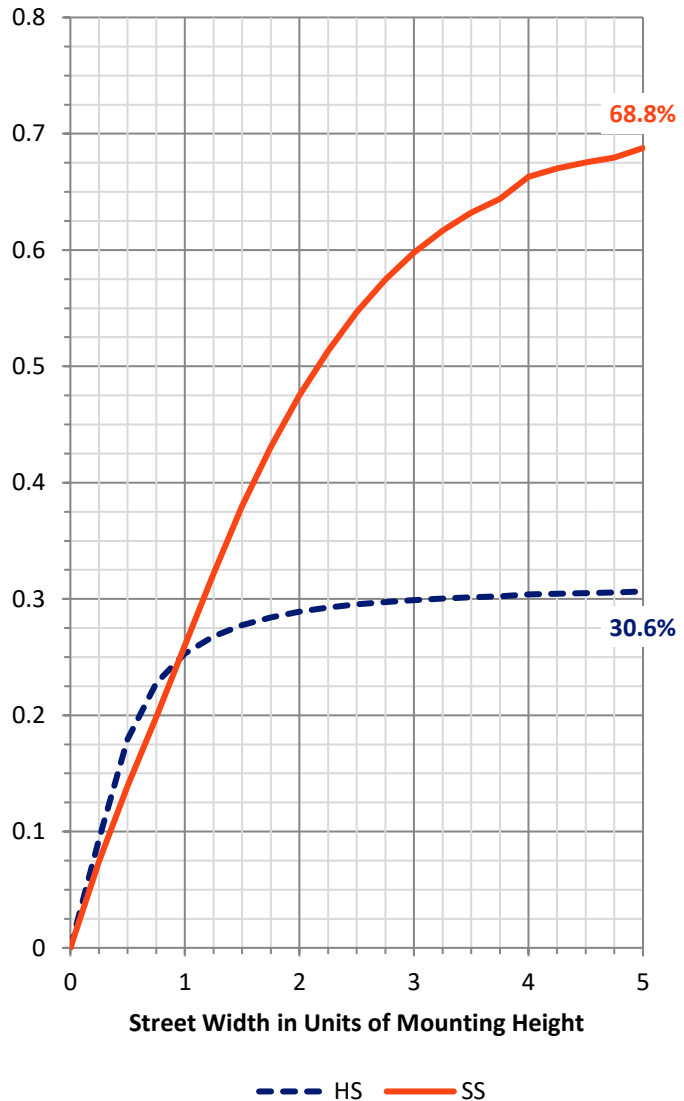
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3545.1	0.0	3545.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	7896.9	0.0	7896.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	11442.1	0.0	11442.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.1
10°-20°	438.5	3.8
20°-30°	800.7	7.0
30°-40°	1135.6	9.9
40°-50°	1533.4	13.4
50°-60°	2062.8	18.0
60°-70°	2618.1	22.9
70°-80°	2376.1	20.8
80°-90°	346.4	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°	11442.1	100.0
0°-180°	11442.1	100.0

Coefficient of Utilization

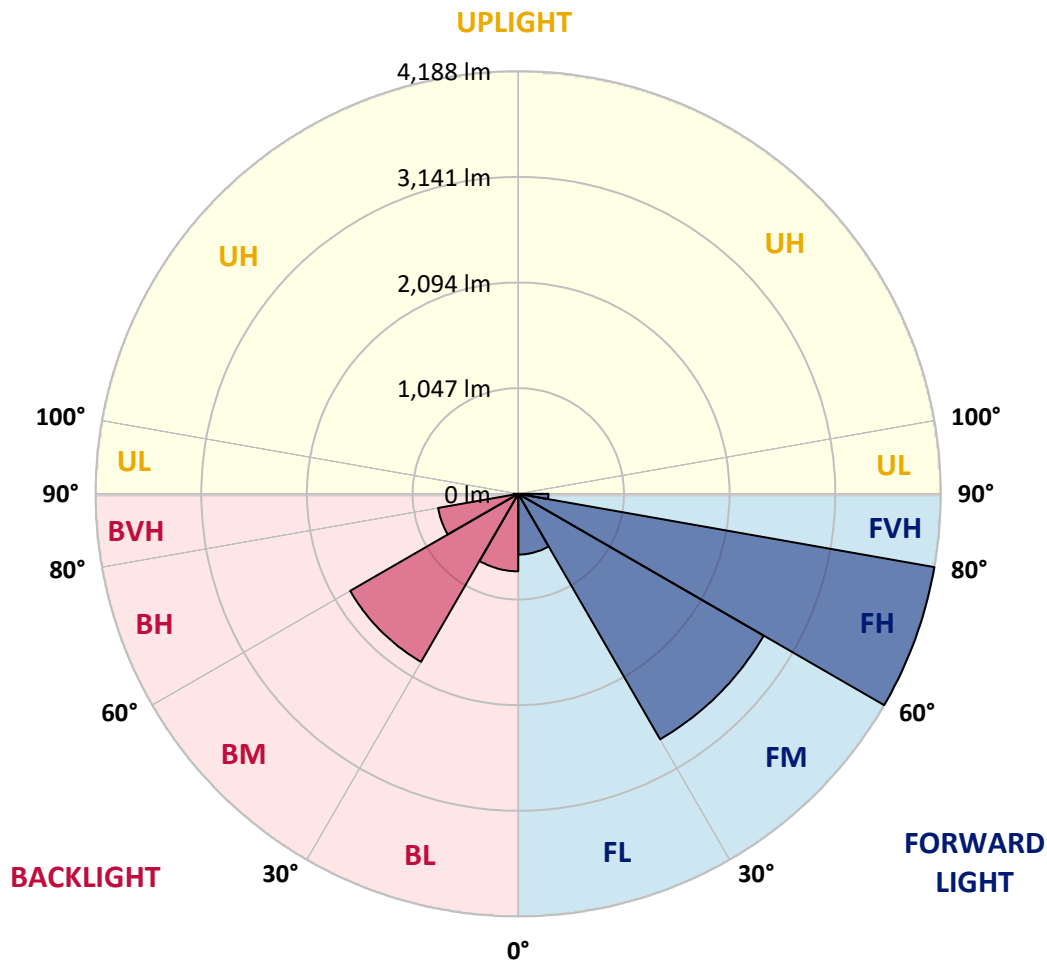


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.9	5.3			
FM (30°-60°)	2808.8	24.5			
FH (60°-80°)	4187.6	36.6			G2/5000
FVH (80°-90°)	298.7	2.6			G3/500
BL (0°-30°)	767.9	6.7	B2/1000		
BM (30°-60°)	1922.9	16.8	B2/2500		
BH (60°-80°)	806.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	47.7	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°	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4
2.5°	1288.4	1295.7	1293.9	1291.4	1291.4	1292.0	1291.4	1295.7	1299.9	1304.2	1310.9
5°	1301.8	1309.0	1305.3	1302.4	1299.9	1299.3	1297.4	1296.9	1299.3	1304.8	1313.8
7.5°	1327.9	1335.2	1329.6	1324.2	1319.4	1316.9	1314.5	1310.9	1309.0	1312.1	1324.8
10°	1357.0	1364.3	1357.6	1347.9	1340.0	1336.9	1334.6	1330.9	1328.4	1330.2	1344.2
12.5°	1386.1	1393.4	1384.3	1370.9	1360.6	1358.7	1355.8	1354.5	1353.9	1353.3	1367.2
15°	1413.4	1419.5	1407.9	1392.2	1381.3	1378.2	1375.1	1377.0	1380.1	1383.6	1399.4
17.5°	1434.7	1440.7	1423.7	1403.1	1392.8	1391.5	1389.7	1395.8	1404.4	1413.4	1432.8
20°	1454.1	1460.1	1438.3	1410.4	1398.2	1398.2	1398.8	1411.6	1423.7	1437.0	1463.8
22.5°	1481.3	1486.2	1459.5	1421.3	1403.7	1404.9	1409.8	1422.5	1437.7	1455.9	1492.9
25°	1522.0	1525.7	1492.9	1442.0	1421.9	1425.6	1429.8	1435.8	1450.4	1471.7	1521.4
27.5°	1587.6	1590.6	1547.5	1478.4	1448.0	1454.1	1460.1	1455.9	1462.6	1480.8	1544.5
30°	1679.9	1681.6	1627.0	1535.3	1492.3	1495.4	1496.5	1479.0	1466.2	1480.8	1560.9
32.5°	1789.0	1788.4	1723.5	1604.5	1542.6	1539.7	1529.3	1494.8	1465.0	1477.7	1575.4
35°	1958.4	1951.7	1868.0	1701.7	1599.7	1580.9	1556.7	1512.3	1471.1	1474.7	1588.1
37.5°	2238.7	2218.1	2102.2	1860.7	1684.7	1636.7	1600.9	1540.9	1484.4	1473.4	1603.4
40°	2554.9	2528.9	2401.4	2078.5	1812.1	1735.0	1677.4	1581.5	1506.2	1479.0	1625.9
42.5°	2930.0	2893.0	2755.8	2335.3	1973.5	1861.9	1775.1	1633.1	1538.4	1496.5	1656.2
45°	3390.6	3341.4	3147.3	2624.7	2176.9	2028.2	1912.2	1711.3	1587.6	1530.5	1701.7
47.5°	3856.0	3868.2	3592.1	2956.1	2420.8	2233.3	2084.0	1829.1	1659.2	1585.2	1775.1
50°	4350.7	4359.1	4034.5	3323.3	2697.6	2465.1	2276.9	1960.8	1758.7	1662.9	1885.0
52.5°	4736.6	4737.9	4436.2	3707.4	2985.8	2720.0	2485.1	2111.3	1874.0	1766.0	2031.2
55°	4978.2	4975.1	4717.9	4070.9	3317.2	2987.7	2715.7	2282.5	2014.8	1887.3	2215.1
57.5°	5153.6	5144.5	4912.0	4383.4	3670.3	3303.8	2976.7	2476.6	2181.1	2031.9	2457.2
60°	5220.3	5214.9	5043.7	4653.5	4041.8	3653.4	3277.7	2693.9	2369.8	2202.3	2768.5
62.5°	5245.8	5256.1	5173.0	4915.1	4439.3	4040.6	3608.5	2953.6	2582.3	2395.3	3096.8
65°	5335.6	5354.4	5337.5	5257.3	4888.3	4493.9	4047.2	3262.6	2814.0	2602.3	3439.8
67.5°	5513.5	5532.2	5539.5	5667.0	5437.0	5058.9	4594.7	3647.3	3085.4	2817.1	3697.7
70°	5509.2	5503.7	5632.4	5992.9	6124.0	5841.2	5332.6	4120.7	3408.8	2995.6	3730.5
72.5°	5014.6	4970.8	5275.0	5989.2	6695.6	6658.0	6233.7	4731.2	3688.0	3017.4	3237.1
75°	3762.0	3645.5	4182.5	5397.5	6790.9	7121.6	6806.7	5109.8	3621.8	2666.0	2252.7
77.5°	1608.8	1491.7	2124.6	3995.7	6077.8	6657.4	6281.1	4458.0	2891.1	1763.0	1106.3
80°	421.2	420.6	642.1	1811.5	4133.4	4916.3	4313.0	2879.0	1651.9	630.0	305.2
82.5°	174.1	169.9	236.1	704.6	2019.7	2758.9	2251.5	1284.1	596.6	170.6	101.4
85°	65.0	64.4	114.7	243.3	712.5	1137.9	823.5	328.3	148.7	83.1	45.5
87.5°	18.2	17.6	24.9	84.4	173.5	263.4	140.8	54.0	41.9	32.8	13.3
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°	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4
2.5°	1312.6	1315.7	1321.1	1325.4	1330.9	1336.9	1345.4	1350.8	1356.4	1360.0	1357.6
5°	1318.1	1324.8	1338.8	1352.7	1369.1	1384.3	1401.9	1414.6	1425.0	1427.9	1429.2
7.5°	1330.2	1341.2	1364.9	1388.6	1414.6	1439.5	1465.0	1486.9	1504.4	1511.2	1511.7
10°	1351.5	1366.1	1399.4	1432.8	1467.4	1505.6	1538.4	1570.0	1594.9	1605.1	1605.8
12.5°	1378.2	1396.5	1440.1	1486.2	1534.2	1587.0	1629.4	1668.3	1699.2	1713.2	1713.2
15°	1412.8	1436.4	1492.3	1554.2	1624.6	1698.0	1752.0	1795.1	1829.7	1846.7	1845.5
17.5°	1450.4	1481.9	1552.4	1645.8	1746.6	1843.1	1906.2	1937.8	1973.5	1989.9	1989.3
20°	1486.9	1525.7	1626.4	1762.4	1896.5	1999.1	2050.0	2058.5	2061.0	2062.7	2067.6
22.5°	1524.5	1576.7	1719.2	1909.3	2053.1	2124.0	2131.4	2094.9	2044.0	2020.3	2026.9
25°	1565.7	1634.9	1840.6	2071.2	2187.8	2196.3	2140.4	2051.8	1955.4	1911.0	1917.7
27.5°	1605.8	1702.3	1986.2	2226.0	2284.8	2210.2	2090.1	1964.4	1848.0	1801.2	1806.7
30°	1645.8	1779.4	2147.1	2361.3	2329.2	2175.7	2010.5	1870.4	1753.3	1704.1	1709.6
32.5°	1686.5	1869.2	2332.2	2459.1	2321.3	2102.2	1911.6	1764.7	1661.6	1610.1	1616.7
35°	1732.7	1979.6	2507.6	2512.5	2268.5	1994.1	1781.1	1638.6	1548.8	1507.5	1516.6
37.5°	1792.7	2119.8	2662.3	2525.8	2176.3	1835.8	1619.1	1489.2	1415.2	1396.5	1409.8
40°	1867.3	2288.5	2780.7	2504.6	2039.6	1643.4	1442.0	1338.1	1296.3	1300.5	1315.1
42.5°	1964.4	2477.2	2863.8	2450.0	1849.7	1444.9	1286.6	1240.5	1260.4	1277.5	1293.2
45°	2090.7	2673.3	2915.4	2357.1	1634.9	1276.8	1194.9	1205.8	1221.0	1222.8	1235.0
47.5°	2252.1	2871.7	2949.4	2216.9	1415.8	1158.6	1136.6	1139.1	1136.1	1123.3	1133.0
50°	2453.5	3064.7	2979.8	2031.2	1229.5	1084.4	1055.3	1046.8	1005.0	963.7	969.1
52.5°	2682.9	3241.9	2992.5	1800.6	1084.4	1022.5	975.3	921.9	843.6	830.8	835.1
55°	2937.9	3405.8	2959.7	1517.2	962.5	943.1	871.5	807.2	798.7	787.7	789.6
57.5°	3242.5	3582.4	2893.0	1201.0	837.5	850.2	780.4	787.7	772.5	755.5	752.6
60°	3575.7	3765.0	2775.8	912.8	708.2	734.3	756.8	756.1	751.9	738.0	733.1
62.5°	3875.5	3885.2	2545.2	699.2	594.7	644.5	705.8	705.2	701.5	693.6	690.6
65°	4053.9	3867.0	2160.5	550.4	501.3	570.4	636.6	641.4	642.1	641.4	641.4
67.5°	4022.3	3654.0	1632.5	438.2	424.2	495.2	568.1	574.7	579.5	580.8	582.0
70°	3665.5	3186.1	1064.5	349.5	355.7	429.1	503.1	509.7	514.0	518.9	521.3
72.5°	2857.2	2342.5	609.3	282.8	295.5	372.0	438.8	446.7	449.1	458.2	461.9
75°	1741.2	1377.6	328.9	222.7	242.7	318.0	375.0	384.2	388.4	399.3	400.6
77.5°	827.8	596.6	187.5	173.5	195.4	259.7	316.8	327.1	315.6	321.6	316.8
80°	279.7	221.5	118.4	132.3	149.2	202.7	253.7	264.0	239.7	238.5	236.1
82.5°	97.7	89.8	75.2	88.0	96.5	145.0	191.8	205.1	178.5	177.8	169.3
85°	38.2	36.4	41.9	48.0	57.6	89.2	126.3	132.9	109.9	88.6	87.4
87.5°	7.9	8.5	10.4	11.0	17.6	31.0	45.5	55.9	44.3	37.6	34.5
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)