

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: P962379

Luminaire Tested: **NAV-SB2C-722-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962379  
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-722-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12656.7 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

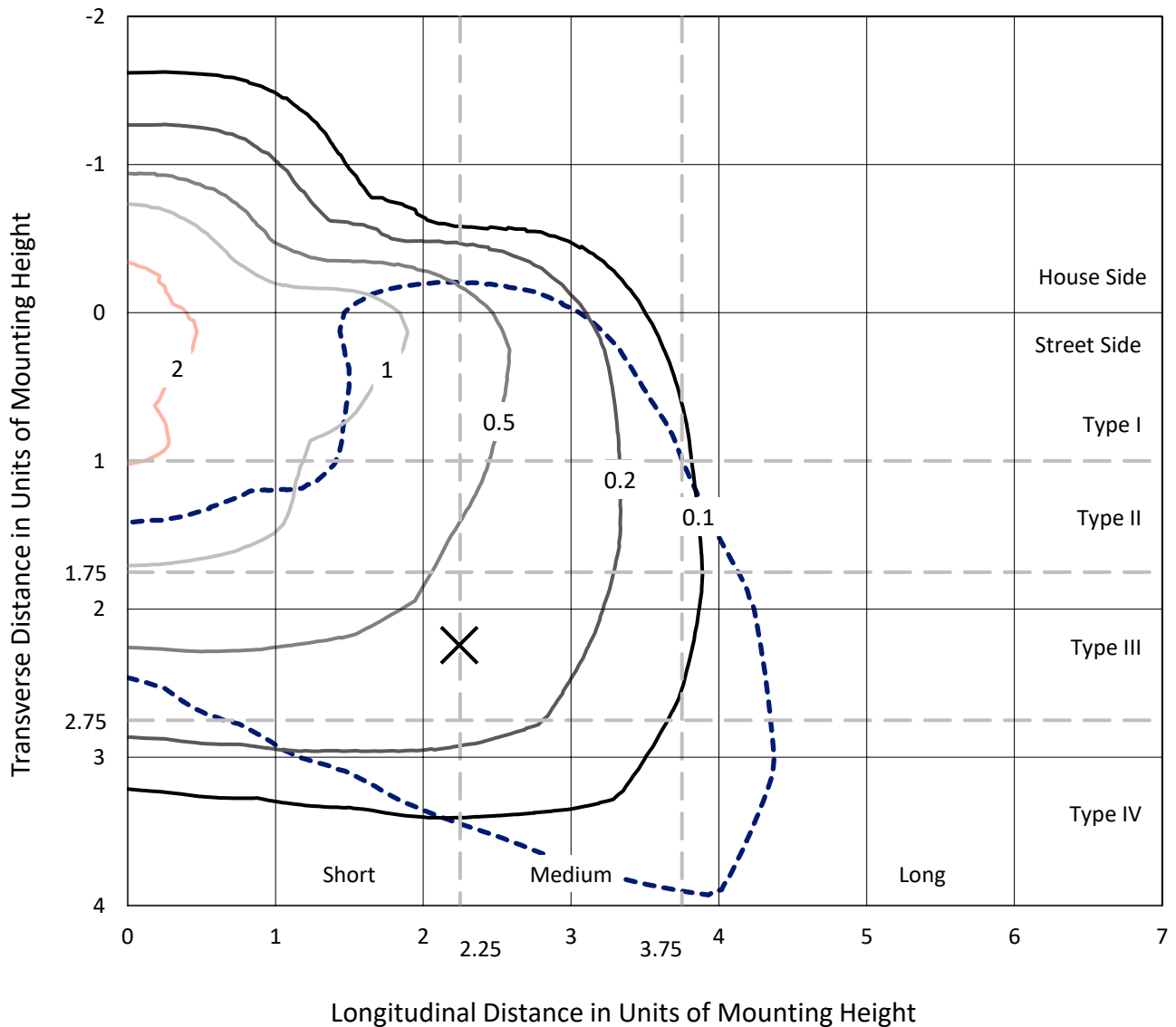
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P962379  
 CATALOG NUMBER: NAV-SB2C-722-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

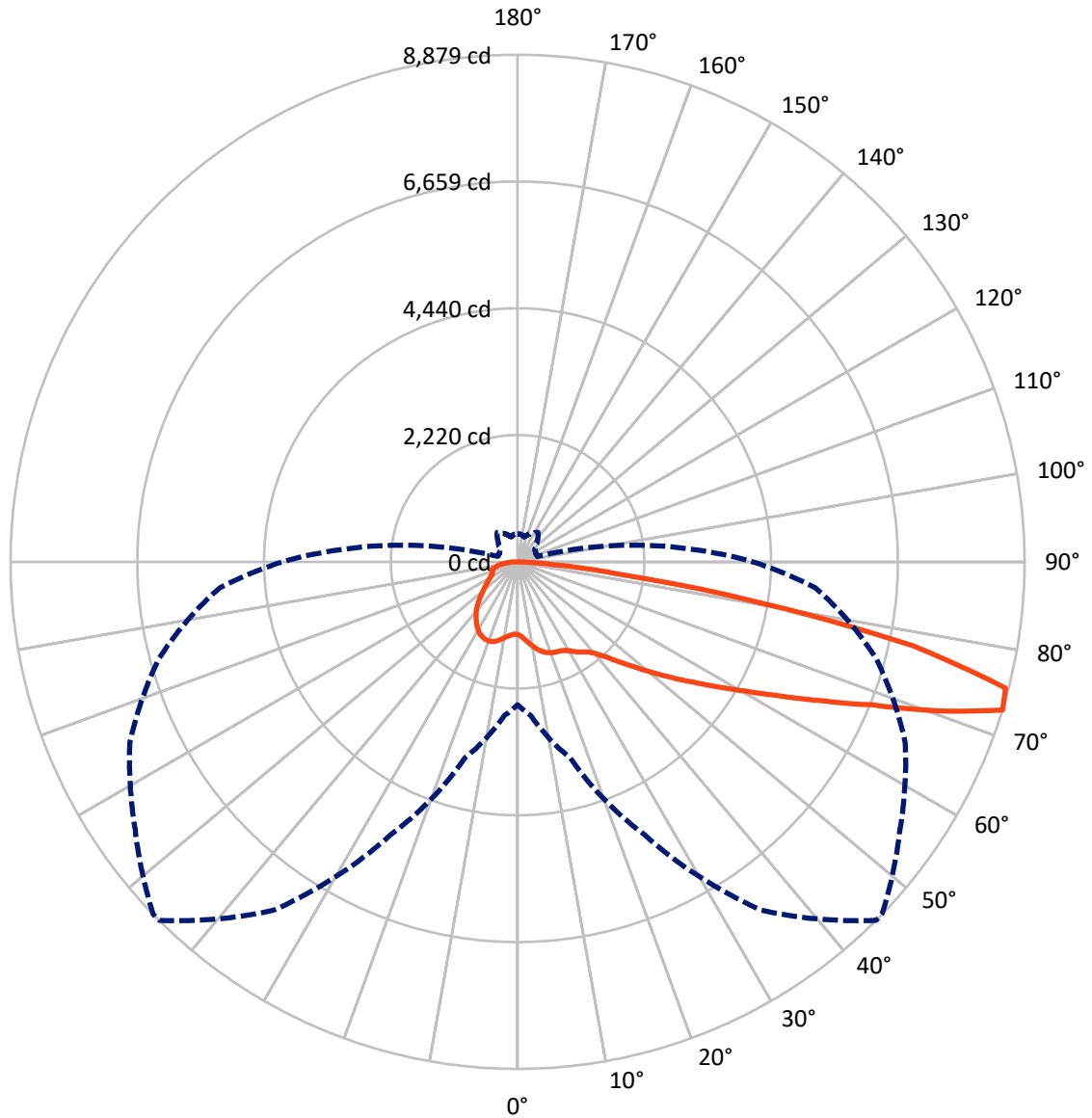
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P962379  
CATALOG NUMBER: NAV-SB2C-722-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P962379  
 CATALOG NUMBER: NAV-SB2C-722-U-T4W

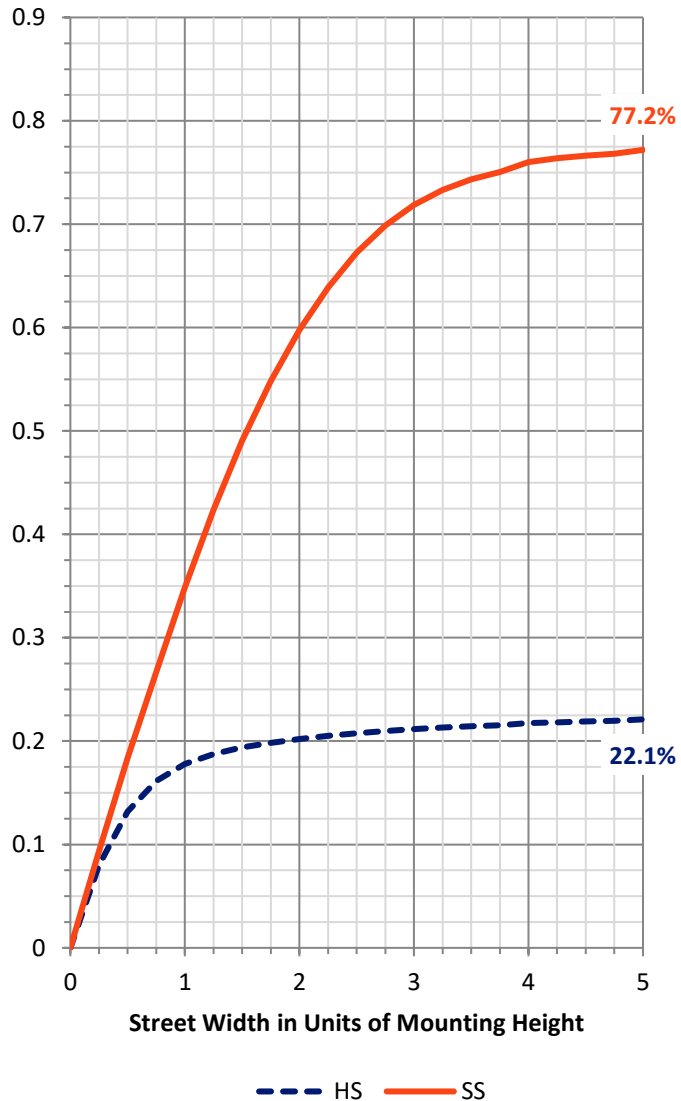
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2861.2	0.0	2861.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	9795.5	0.0	9795.5
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	12656.7	0.0	12656.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.0	1.0
10°-20°	433.3	3.4
20°-30°	753.7	6.0
30°-40°	1080.5	8.5
40°-50°	1521.4	12.0
50°-60°	2330.4	18.4
60°-70°	3375.9	26.7
70°-80°	2695.8	21.3
80°-90°	335.8	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°	12656.7	100.0
0°-180°	12656.7	100.0

**Coefficient of Utilization**



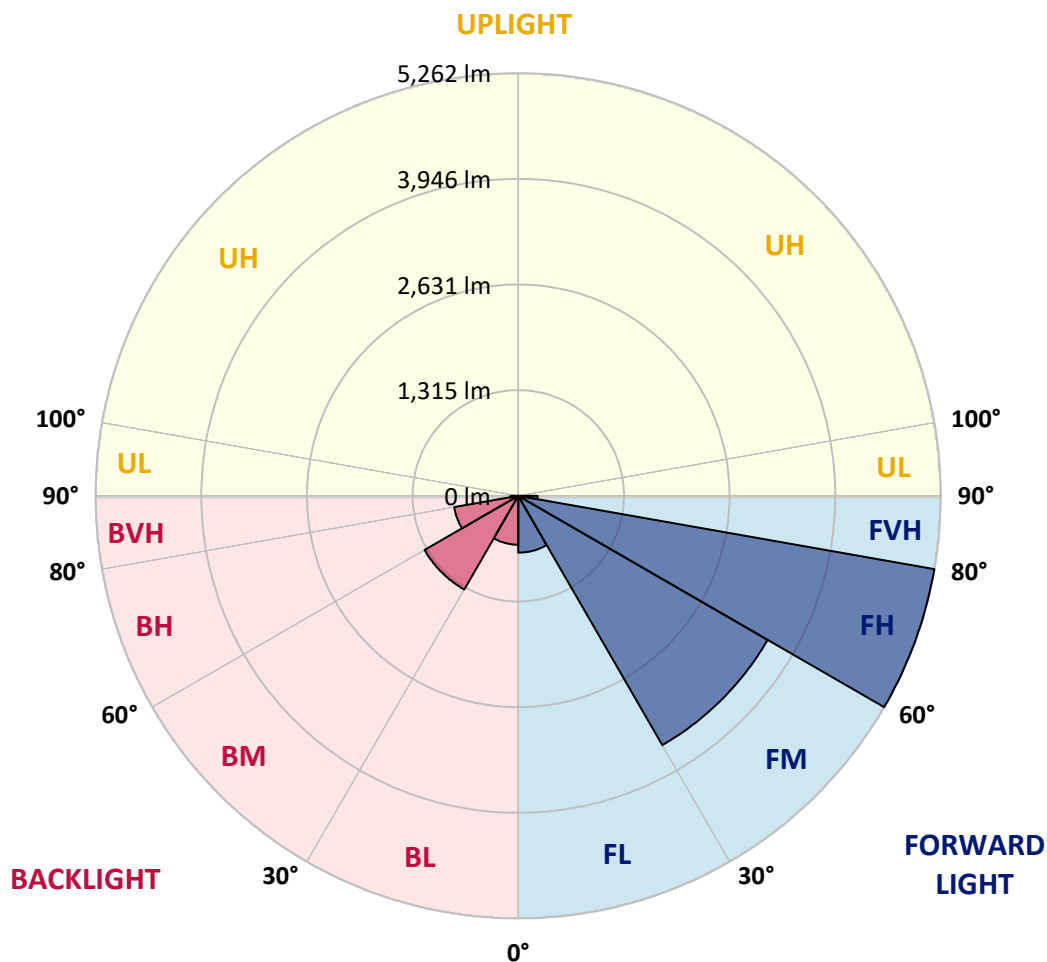
REPORT NUMBER: P962379  
 CATALOG NUMBER: NAV-SB2C-722-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.8	5.6			
FM (30°-60°)	3585.0	28.3			
FH (60°-80°)	5261.8	41.6			G3/7500
FVH (80°-90°)	240.9	1.9			G3/500
BL (0°-30°)	609.2	4.8	B2/1000		
BM (30°-60°)	1347.2	10.6	B2/2500		
BH (60°-80°)	809.9	6.4	B2/1000		G2/1000
BVH (80°-90°)	94.9	0.7			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 Short



REPORT NUMBER: P962379  
 CATALOG NUMBER: NAV-SB2C-722-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8
2.5°	1326.9	1335.5	1327.5	1320.2	1316.8	1308.1	1307.5	1302.2	1298.8	1289.4	1286.8
5°	1419.5	1430.8	1417.5	1402.8	1389.5	1368.2	1365.5	1350.1	1332.8	1312.8	1301.4
7.5°	1524.2	1534.2	1518.8	1496.8	1473.5	1438.2	1437.5	1409.5	1382.1	1348.2	1328.8
10°	1615.5	1628.8	1608.2	1578.2	1548.9	1508.8	1504.2	1472.2	1437.5	1393.5	1364.2
12.5°	1696.2	1705.5	1685.5	1648.8	1614.9	1574.8	1568.9	1533.5	1494.9	1444.8	1407.5
15°	1760.2	1772.2	1745.6	1706.2	1670.2	1630.9	1625.5	1593.6	1554.8	1502.1	1454.2
17.5°	1802.3	1812.2	1784.8	1740.9	1706.2	1673.5	1669.5	1642.9	1608.8	1555.5	1504.2
20°	1818.2	1828.9	1800.2	1755.5	1723.5	1698.2	1696.2	1676.9	1653.5	1604.8	1552.9
22.5°	1834.2	1844.2	1806.9	1760.2	1732.2	1716.2	1715.5	1702.8	1693.5	1653.5	1602.9
25°	1898.9	1901.6	1851.6	1784.2	1744.2	1730.2	1729.6	1728.9	1732.9	1701.5	1656.8
27.5°	1954.9	1954.3	1911.5	1848.2	1786.2	1756.8	1756.2	1762.9	1775.5	1749.6	1712.9
30°	2036.9	2029.6	1978.9	1912.9	1856.2	1810.9	1806.9	1800.9	1810.9	1790.2	1768.8
32.5°	2210.9	2187.6	2105.6	1988.2	1914.2	1879.5	1874.2	1836.9	1840.9	1828.2	1817.5
35°	2460.3	2429.7	2320.3	2130.9	1986.2	1936.8	1934.2	1886.9	1878.9	1867.5	1871.5
37.5°	2756.9	2719.0	2591.6	2337.6	2110.3	2003.6	1999.6	1956.9	1924.2	1912.2	1934.9
40°	3055.0	3007.0	2901.7	2589.7	2292.9	2114.9	2102.3	2037.6	2000.2	1980.2	2028.3
42.5°	3344.4	3304.4	3214.4	2872.4	2518.3	2277.5	2249.6	2138.9	2110.9	2092.2	2178.9
45°	3600.4	3564.4	3498.4	3174.3	2782.4	2499.0	2471.6	2291.0	2282.3	2282.3	2407.6
47.5°	3808.5	3800.4	3730.4	3482.4	3093.7	2751.0	2703.6	2502.3	2525.6	2561.7	2732.3
50°	4039.1	4017.2	3942.5	3785.7	3459.8	3039.6	3001.0	2761.7	2849.0	2947.7	3201.7
52.5°	4251.2	4263.2	4179.8	4101.8	3873.1	3361.7	3293.7	3067.7	3256.4	3419.7	3751.8
55°	4469.2	4469.8	4446.6	4435.9	4306.5	3717.8	3643.1	3435.7	3735.8	3938.5	4393.2
57.5°	4673.9	4675.2	4709.9	4803.9	4809.2	4128.5	4043.8	3887.8	4268.5	4475.2	5054.6
60°	4856.6	4865.9	4960.6	5180.6	5251.3	4599.2	4519.2	4421.8	4819.2	5027.2	5750.0
62.5°	4918.0	4951.9	5162.6	5475.3	5688.0	5176.6	5097.9	5039.9	5398.0	5591.3	6331.4
65°	4813.9	4891.9	5299.2	5718.7	6137.4	5862.7	5784.7	5721.3	5999.3	6181.4	6808.8
67.5°	4558.5	4659.2	5291.3	5974.0	6682.8	6688.1	6615.5	6466.7	6644.2	6714.2	6964.2
70°	3885.8	4036.4	4825.2	6069.3	7308.9	7816.9	7746.8	7364.2	7287.5	6948.8	6526.8
72.5°	2503.7	2706.3	3553.1	5284.6	7448.2	8879.1	8875.1	8174.3	7490.9	6492.8	5234.6
75°	913.5	1037.4	1650.9	3317.0	6252.1	8825.0	8851.0	8035.6	6838.1	5015.2	3261.0
77.5°	332.7	364.1	538.7	1274.8	3845.1	7080.8	7134.8	6424.1	4867.2	2517.0	1292.1
80°	174.7	192.0	276.0	494.8	1647.5	4205.2	4289.8	3817.8	2287.6	758.1	387.3
82.5°	96.7	104.7	154.7	268.7	742.1	1798.2	1848.9	1508.2	804.7	321.3	160.0
85°	52.0	55.4	72.7	146.7	362.7	623.4	637.4	450.7	320.7	188.7	77.4
87.5°	15.4	18.7	24.0	46.6	142.1	140.0	143.4	89.4	126.7	95.3	25.3
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: P962379

CATALOG NUMBER: NAV-SB2C-722-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8	1276.8
2.5°	1282.8	1280.8	1273.5	1270.2	1266.2	1265.5	1268.8	1269.5	1270.2	1270.8	1273.5
5°	1294.8	1288.1	1281.5	1277.5	1278.8	1279.5	1286.2	1290.8	1294.2	1296.8	1298.2
7.5°	1318.1	1312.8	1301.4	1300.8	1302.8	1308.8	1317.5	1328.2	1334.1	1338.9	1340.2
10°	1352.8	1342.9	1329.5	1331.5	1335.5	1344.2	1362.1	1370.8	1380.8	1389.5	1387.5
12.5°	1388.2	1379.4	1364.2	1365.5	1372.2	1387.5	1404.9	1415.5	1422.2	1428.8	1431.5
15°	1434.2	1418.8	1402.2	1402.2	1414.2	1430.8	1438.8	1447.5	1451.5	1458.9	1461.5
17.5°	1481.5	1461.5	1439.5	1438.2	1452.8	1460.8	1465.5	1466.9	1468.2	1476.2	1478.9
20°	1528.9	1506.9	1475.5	1472.8	1476.2	1474.9	1474.2	1472.8	1474.9	1484.8	1488.8
22.5°	1575.5	1550.2	1506.9	1494.9	1485.5	1472.8	1472.2	1471.5	1472.8	1482.9	1489.5
25°	1630.2	1599.5	1541.5	1505.5	1474.2	1456.8	1458.9	1459.5	1460.8	1468.8	1479.5
27.5°	1689.5	1655.5	1573.5	1502.1	1445.5	1433.5	1430.2	1432.1	1436.8	1449.5	1462.2
30°	1748.9	1708.9	1602.9	1488.8	1409.5	1392.9	1382.1	1386.8	1401.5	1414.2	1428.1
32.5°	1802.9	1762.9	1626.2	1459.5	1363.5	1337.5	1323.5	1329.5	1344.2	1348.8	1365.5
35°	1866.2	1820.9	1636.2	1412.9	1313.4	1273.5	1254.8	1246.2	1253.5	1248.9	1263.5
37.5°	1936.8	1889.6	1634.9	1351.5	1254.8	1208.8	1182.8	1150.2	1134.8	1118.8	1128.8
40°	2041.6	1973.5	1618.9	1277.5	1182.1	1140.1	1093.5	1038.1	1003.5	972.1	974.2
42.5°	2184.3	2090.3	1589.5	1196.2	1100.1	1060.8	997.4	932.7	878.1	826.0	821.4
45°	2397.0	2242.9	1552.9	1109.5	1011.5	972.8	904.2	831.5	769.5	702.7	694.7
47.5°	2703.6	2448.3	1518.1	1010.8	918.1	882.7	820.7	753.4	680.1	615.4	608.0
50°	3125.0	2743.0	1486.1	914.8	826.0	799.4	750.1	681.4	607.4	555.4	552.1
52.5°	3661.1	3143.7	1472.8	822.0	740.0	730.1	690.7	626.8	556.8	512.7	509.4
55°	4276.5	3623.1	1472.8	733.4	664.7	668.1	640.7	581.4	520.7	481.3	477.3
57.5°	4904.5	4108.5	1446.2	651.4	600.8	614.7	597.4	545.4	490.8	450.1	443.4
60°	5483.3	4515.2	1338.1	576.8	544.1	566.1	554.7	510.0	443.4	409.4	404.1
62.5°	5928.0	4744.5	1130.2	517.4	497.4	522.8	516.7	463.4	434.7	420.8	416.0
65°	6150.7	4707.2	864.1	464.7	458.1	497.4	484.7	482.7	460.0	444.0	438.7
67.5°	6014.0	4385.9	626.8	426.1	435.4	474.1	522.8	530.7	488.7	457.4	452.0
70°	5414.7	3804.4	466.7	389.4	406.7	474.7	596.0	555.4	479.4	442.7	436.8
72.5°	4119.2	2837.0	362.0	350.8	369.4	478.1	628.7	544.1	452.7	489.4	485.4
75°	2355.7	1557.5	290.7	303.4	322.7	446.7	612.0	514.8	432.0	449.4	449.4
77.5°	898.1	598.7	240.1	256.7	259.3	390.0	585.4	512.7	411.3	401.4	366.0
80°	311.4	234.0	198.6	204.0	200.7	346.8	561.4	446.1	336.7	301.3	291.4
82.5°	127.3	116.6	157.3	150.7	142.7	269.4	453.4	364.7	275.3	243.3	240.7
85°	55.4	74.0	104.0	91.3	82.7	186.7	363.4	308.7	232.7	200.7	200.0
87.5°	11.4	28.0	44.0	41.3	42.6	124.6	258.0	219.4	164.7	123.3	96.7
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)