

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: P961847

Luminaire Tested: **NAV-SB2B-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9788.8 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

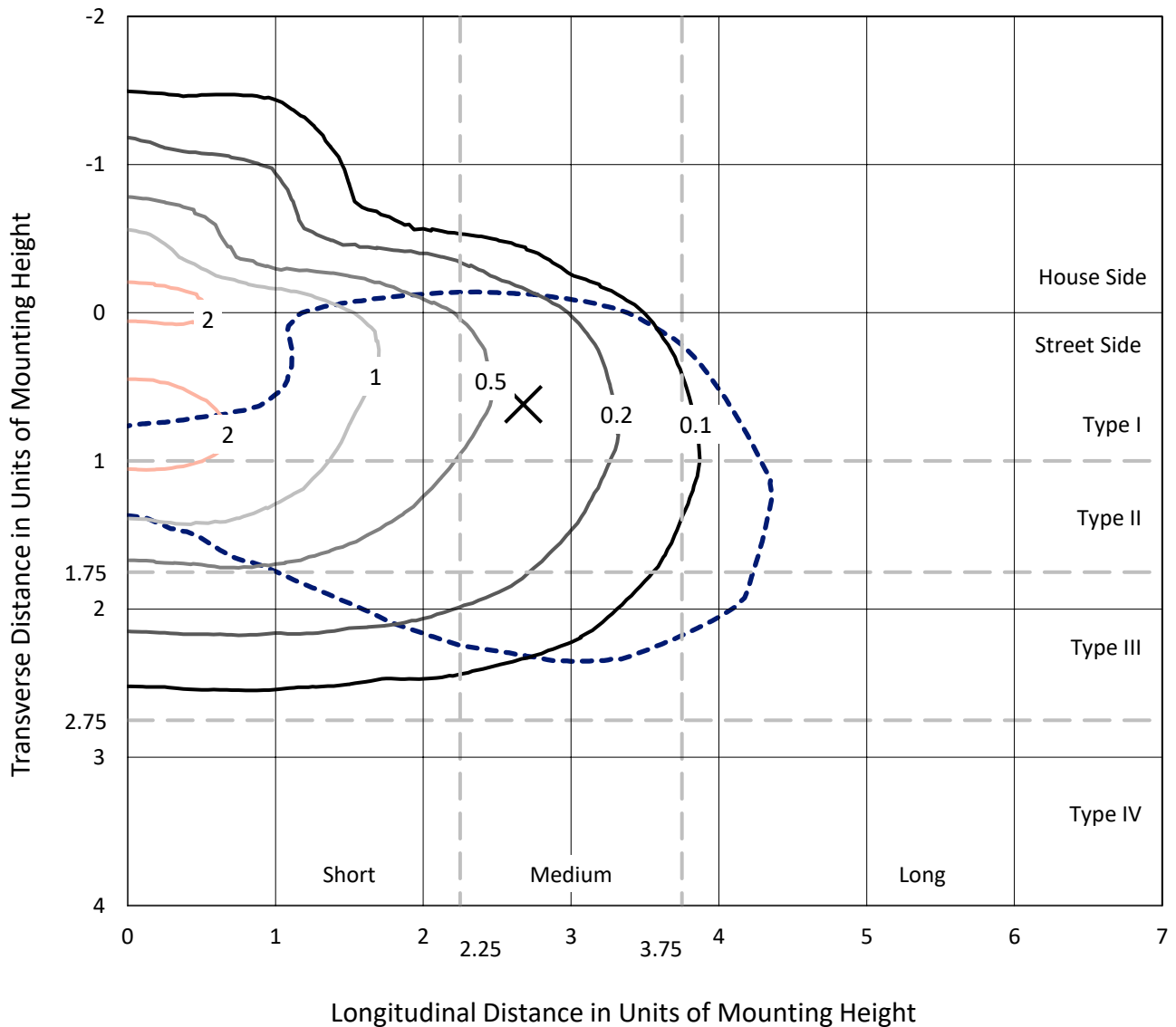
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961847
 CATALOG NUMBER: NAV-SB2B-722-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

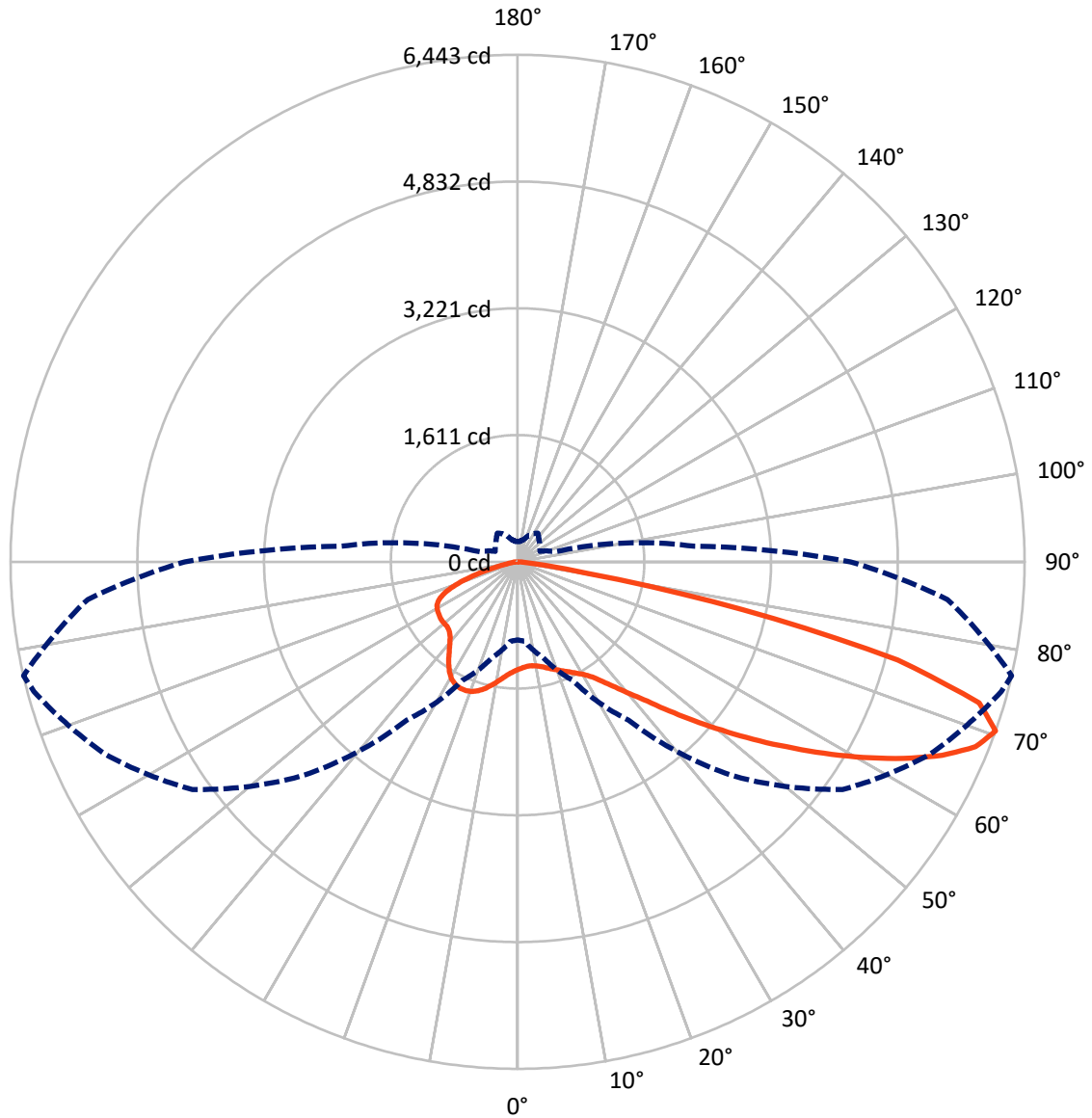
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P961847
CATALOG NUMBER: NAV-SB2B-722-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P961847
 CATALOG NUMBER: NAV-SB2B-722-U-T3R

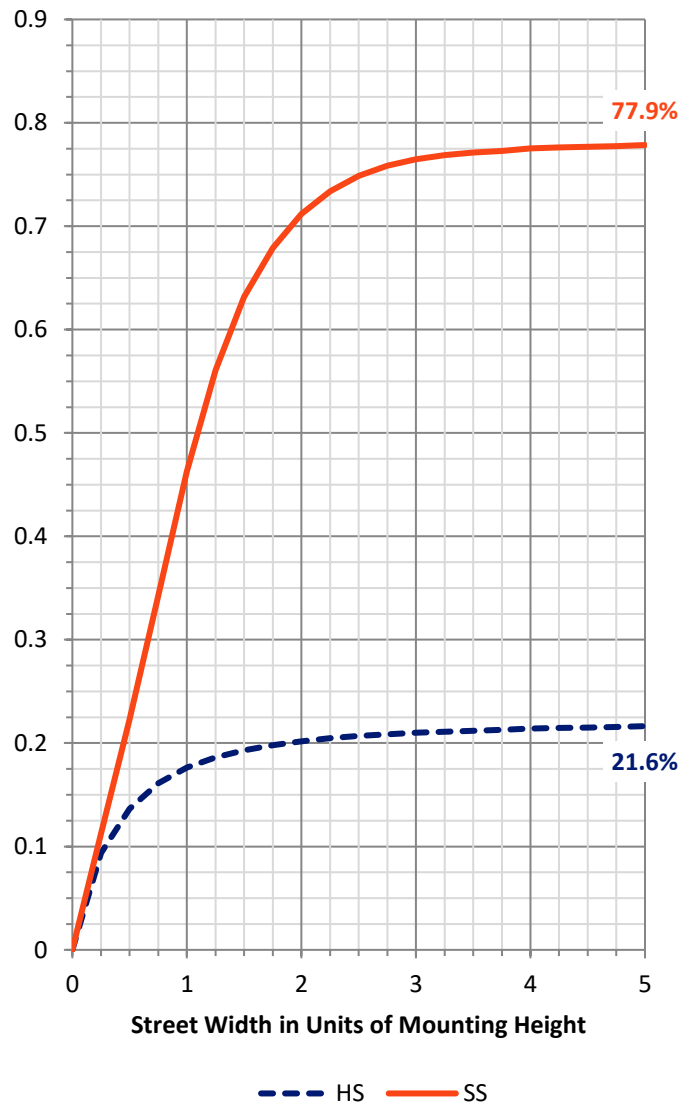
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2143.6	0.0	2143.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7645.2	0.0	7645.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	9788.8	0.0	9788.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	1.3
10°-20°	375.9	3.8
20°-30°	642.8	6.6
30°-40°	1033.7	10.6
40°-50°	1613.9	16.5
50°-60°	2155.8	22.0
60°-70°	2297.8	23.5
70°-80°	1414.5	14.5
80°-90°	124.0	1.3
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°	9788.8	100.0
0°-180°	9788.8	100.0

Coefficient of Utilization

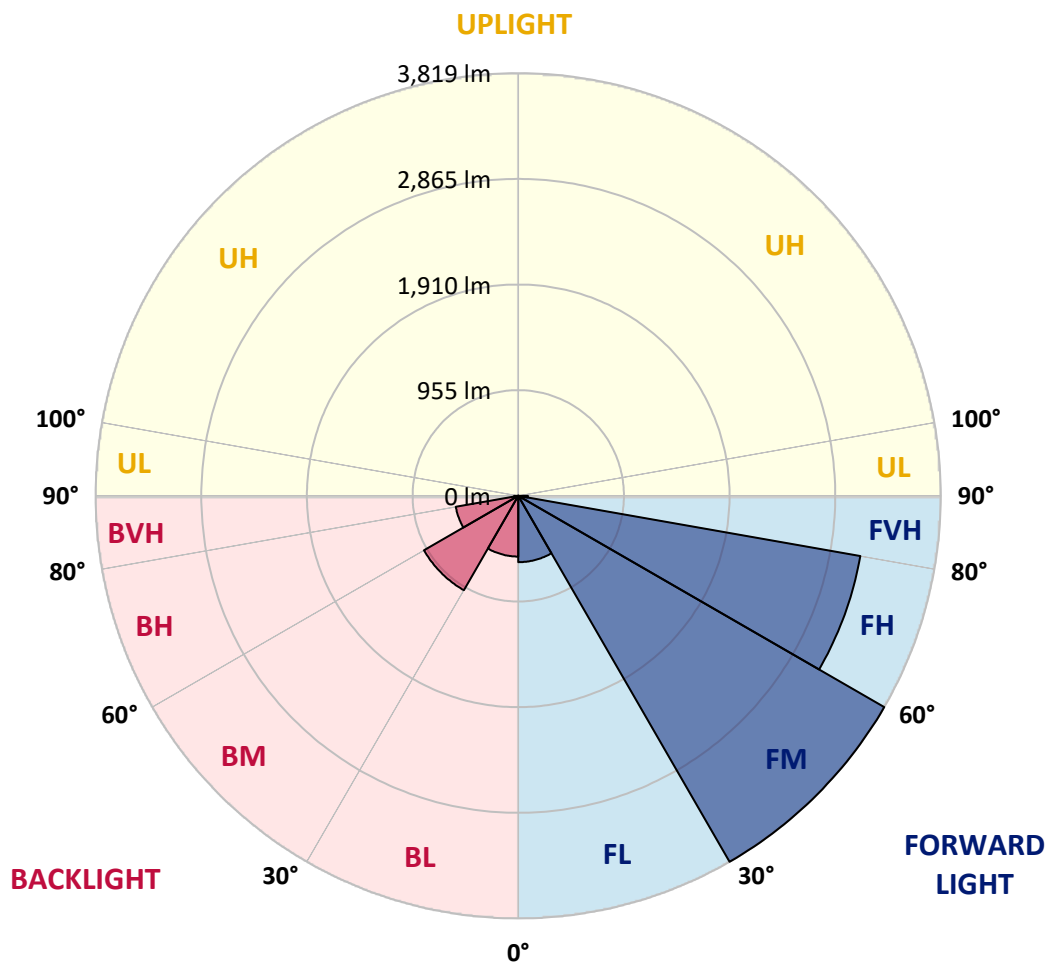


REPORT NUMBER: P961847
 CATALOG NUMBER: NAV-SB2B-722-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.7	6.1			
FM (30°-60°)	3819.4	39.0			
FH (60°-80°)	3139.4	32.1			G2/5000
FVH (80°-90°)	86.7	0.9			G1/100
BL (0°-30°)	549.3	5.6	B2/1000		
BM (30°-60°)	984.2	10.1	B1/1000		
BH (60°-80°)	572.9	5.9	B2/1000		G2/1000
BVH (80°-90°)	37.3	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-G2
 Type III Medium



REPORT NUMBER: P961847
 CATALOG NUMBER: NAV-SB2B-722-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6
2.5°	1258.8	1258.3	1264.8	1266.9	1278.9	1287.4	1303.5	1320.5	1342.5	1345.1	1358.6
5°	1186.1	1186.1	1193.7	1201.7	1217.2	1234.3	1258.8	1288.4	1326.6	1332.5	1366.1
7.5°	1124.5	1128.5	1135.0	1150.6	1168.6	1193.2	1230.7	1272.8	1323.0	1332.5	1386.7
10°	1074.8	1079.3	1087.4	1099.9	1127.0	1161.1	1210.2	1264.3	1331.6	1346.5	1416.8
12.5°	1059.3	1063.8	1068.4	1077.9	1102.9	1143.1	1201.7	1268.3	1352.1	1367.1	1457.9
15°	1095.4	1101.0	1097.4	1094.9	1107.9	1144.5	1205.7	1282.9	1377.7	1399.2	1508.5
17.5°	1178.6	1180.6	1172.6	1149.0	1147.1	1166.6	1224.8	1303.0	1409.8	1433.3	1559.6
20°	1313.0	1309.4	1292.9	1246.3	1219.8	1215.8	1257.4	1333.0	1442.8	1467.9	1614.8
22.5°	1495.5	1491.5	1458.4	1384.7	1325.5	1286.4	1304.4	1372.2	1479.9	1508.0	1668.4
25°	1723.0	1717.6	1668.9	1568.7	1476.9	1380.2	1368.6	1423.7	1525.5	1551.6	1724.6
27.5°	1988.8	1984.3	1931.6	1799.3	1667.0	1508.5	1448.3	1484.4	1573.2	1602.8	1787.7
30°	2274.6	2287.6	2194.3	2051.9	1884.5	1676.0	1555.6	1559.1	1634.9	1661.4	1864.5
32.5°	2610.5	2633.0	2520.7	2340.2	2111.6	1857.9	1690.9	1663.4	1724.6	1746.6	1961.2
35°	2943.3	2968.9	2875.6	2676.1	2412.8	2072.4	1832.4	1783.2	1843.9	1868.0	2089.6
37.5°	3231.1	3265.1	3217.1	3043.5	2735.2	2331.2	2016.9	1924.1	1990.8	2020.9	2262.0
40°	3458.1	3510.3	3506.8	3398.5	3115.3	2645.0	2251.0	2098.1	2173.3	2205.8	2471.1
42.5°	3642.6	3687.7	3726.9	3721.4	3511.9	3001.4	2526.2	2324.2	2381.3	2418.9	2706.2
45°	3770.0	3818.1	3902.4	3993.1	3893.4	3383.0	2841.5	2592.3	2644.5	2701.2	2986.4
47.5°	3883.8	3938.5	4047.7	4191.6	4217.2	3766.0	3186.9	2904.7	2952.3	3010.9	3267.7
50°	3893.9	3940.9	4110.4	4314.4	4447.3	4133.9	3558.0	3255.1	3299.8	3362.4	3568.9
52.5°	3651.7	3725.9	4021.7	4310.9	4553.0	4441.7	3926.4	3619.6	3669.7	3744.9	3880.8
55°	2834.5	2943.3	3761.4	4176.6	4515.4	4640.8	4276.8	4007.1	4071.3	4150.0	4194.6
57.5°	2441.4	2489.1	2985.9	3931.9	4344.1	4692.4	4572.6	4398.7	4501.9	4588.2	4526.5
60°	2194.3	2233.9	2527.6	3551.4	4118.4	4610.8	4801.2	4763.6	4942.1	5044.8	4865.9
62.5°	1929.7	1967.2	2234.4	2965.3	3829.6	4474.8	4945.6	5100.5	5393.3	5505.6	5185.8
65°	1667.0	1699.0	1955.2	2491.6	3462.7	4339.0	5020.3	5391.8	5810.9	5927.2	5451.5
67.5°	1374.1	1400.7	1642.9	2102.1	3016.5	4153.0	5057.5	5620.9	6174.4	6274.1	5582.8
70°	991.6	1012.2	1262.4	1662.4	2456.5	3833.2	5042.4	5783.4	6362.9	6442.5	5483.5
72.5°	468.7	487.3	781.0	1079.3	1735.1	3210.5	4738.1	5654.5	6171.3	6131.8	4875.9
75°	250.2	266.2	448.6	592.0	916.5	2200.9	3877.3	4870.9	5182.2	4989.7	3603.6
77.5°	169.4	181.9	277.8	355.5	418.6	1044.8	2492.1	3372.5	3244.6	2926.8	1804.8
80°	134.4	147.4	227.7	240.7	202.5	377.5	1029.7	1561.2	1121.5	896.9	513.3
82.5°	103.3	117.8	191.5	174.5	110.3	154.9	299.8	493.8	287.3	218.5	124.3
85°	63.1	78.7	150.4	111.3	62.1	70.7	101.8	137.4	87.7	73.2	44.6
87.5°	32.1	45.1	76.2	40.6	28.1	16.5	27.1	27.1	23.1	20.1	11.5
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: P961847
 CATALOG NUMBER: NAV-SB2B-722-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6
2.5°	1370.6	1380.7	1397.7	1413.8	1426.3	1438.3	1450.4	1456.8	1458.9	1466.9	1471.4
5°	1386.7	1405.3	1438.3	1469.4	1488.9	1501.0	1509.5	1514.5	1515.6	1518.0	1522.0
7.5°	1416.2	1445.9	1492.0	1523.0	1537.6	1536.6	1533.1	1520.5	1515.6	1511.1	1512.0
10°	1457.9	1497.0	1553.6	1575.2	1566.2	1542.1	1511.1	1474.4	1457.3	1440.8	1435.8
12.5°	1509.5	1559.1	1614.8	1613.8	1569.2	1507.5	1435.3	1379.1	1343.6	1317.9	1312.0
15°	1572.1	1629.3	1672.0	1637.8	1540.1	1429.3	1323.5	1250.3	1218.2	1190.1	1187.2
17.5°	1636.8	1698.0	1717.6	1630.4	1466.9	1313.4	1193.7	1136.0	1104.4	1089.4	1093.9
20°	1700.0	1760.6	1744.7	1587.2	1355.6	1182.1	1075.3	1043.8	1037.3	1040.8	1039.2
22.5°	1766.7	1820.8	1750.2	1504.0	1213.7	1047.8	989.1	990.1	1004.7	1015.2	1017.7
25°	1834.9	1871.4	1735.6	1383.6	1061.3	949.0	934.5	950.5	979.1	999.7	1005.1
27.5°	1900.6	1916.5	1704.1	1234.8	930.5	878.3	880.9	913.9	957.0	985.6	992.6
30°	1974.8	1956.7	1643.4	1067.3	839.7	817.6	838.8	877.3	920.4	946.0	952.0
32.5°	2058.5	1991.3	1547.1	912.5	775.5	769.1	803.6	828.7	847.8	855.3	859.3
35°	2162.8	2040.0	1423.7	803.6	717.9	733.5	766.5	754.0	746.5	742.5	746.5
37.5°	2298.0	2105.6	1279.4	733.0	671.3	707.9	721.4	682.3	652.7	638.2	641.6
40°	2461.0	2201.8	1140.5	678.3	641.6	685.8	662.3	615.1	577.5	557.0	558.5
42.5°	2642.0	2302.6	1023.7	637.1	625.1	667.8	618.7	562.5	501.8	495.3	501.8
45°	2832.0	2406.4	944.0	605.6	617.2	652.2	593.6	502.9	459.7	486.3	500.3
47.5°	3022.0	2501.6	895.8	582.0	613.2	634.7	571.5	469.8	439.2	477.8	495.8
50°	3233.6	2586.9	874.3	565.0	608.6	627.7	538.4	461.2	417.6	443.2	462.3
52.5°	3443.6	2653.0	858.2	548.0	602.1	622.2	522.3	451.2	391.5	393.1	403.5
55°	3653.2	2696.2	840.7	525.4	587.5	610.1	520.9	440.1	372.0	365.0	370.0
57.5°	3876.8	2720.8	819.2	500.3	562.5	579.5	519.4	431.6	365.9	354.4	356.0
60°	4104.4	2756.8	791.1	469.8	528.9	542.9	515.9	428.7	362.4	342.9	344.4
62.5°	4308.4	2769.3	757.5	440.6	485.7	506.9	508.3	426.1	352.9	319.4	319.4
65°	4442.2	2715.2	698.8	407.5	439.2	469.8	493.8	417.6	335.9	302.3	302.3
67.5°	4436.7	2560.8	607.1	365.0	394.0	428.7	472.7	403.0	315.3	281.3	282.8
70°	4230.2	2256.0	490.8	315.3	344.4	384.5	445.7	381.5	290.8	258.2	261.2
72.5°	3628.1	1765.7	356.5	257.2	286.8	338.9	410.6	355.5	265.7	237.6	236.2
75°	2591.9	1117.5	241.6	197.5	223.1	287.3	367.0	324.8	242.6	238.6	225.1
77.5°	1324.0	533.9	159.9	144.4	155.4	226.6	308.3	290.3	246.1	197.0	175.5
80°	430.6	197.0	100.8	98.3	103.3	150.9	238.6	238.1	186.4	133.9	118.3
82.5°	137.4	84.8	65.7	63.1	60.7	94.7	166.5	188.5	125.9	84.8	84.3
85°	54.6	50.6	38.6	35.6	25.5	44.6	87.2	125.4	93.8	61.2	62.6
87.5°	20.1	20.1	10.6	7.5	5.5	15.1	23.6	37.6	53.6	31.6	31.1
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)