

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: P961320

Luminaire Tested: **NAV-SB2A-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961320
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-SB2A-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7798.2 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

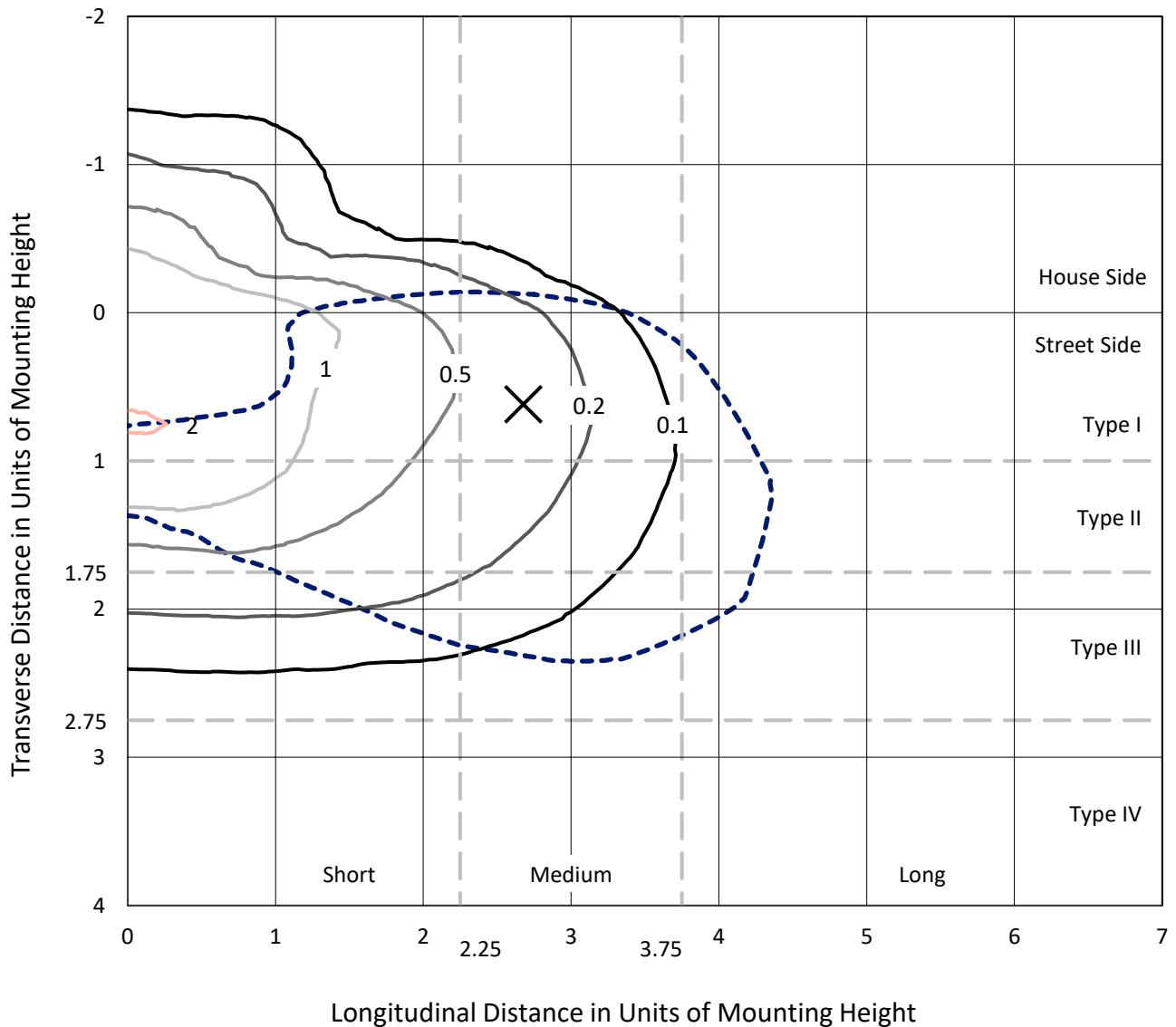
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961320
 CATALOG NUMBER: NAV-SB2A-722-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

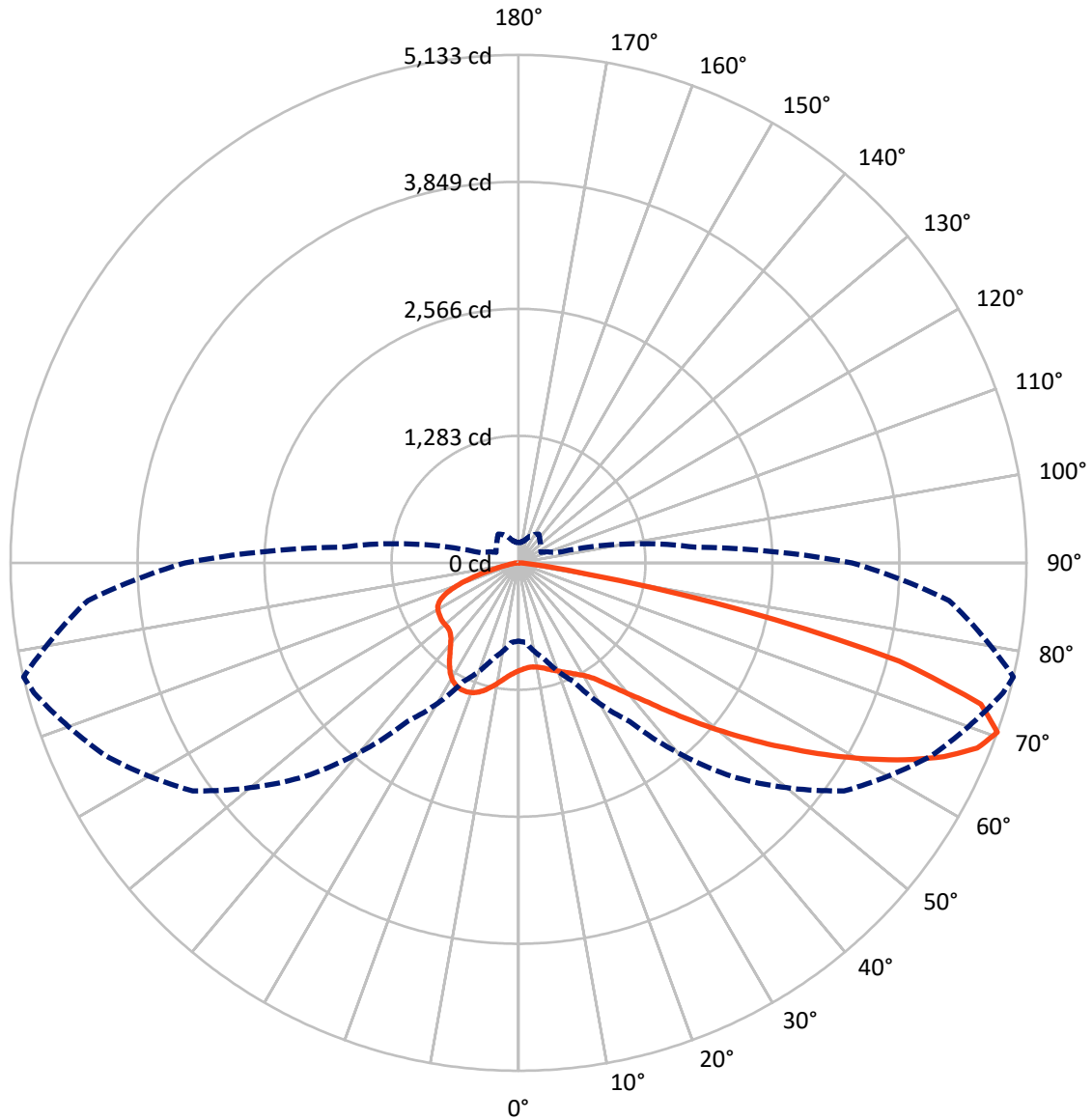
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P961320
CATALOG NUMBER: NAV-SB2A-722-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P961320
 CATALOG NUMBER: NAV-SB2A-722-U-T3R

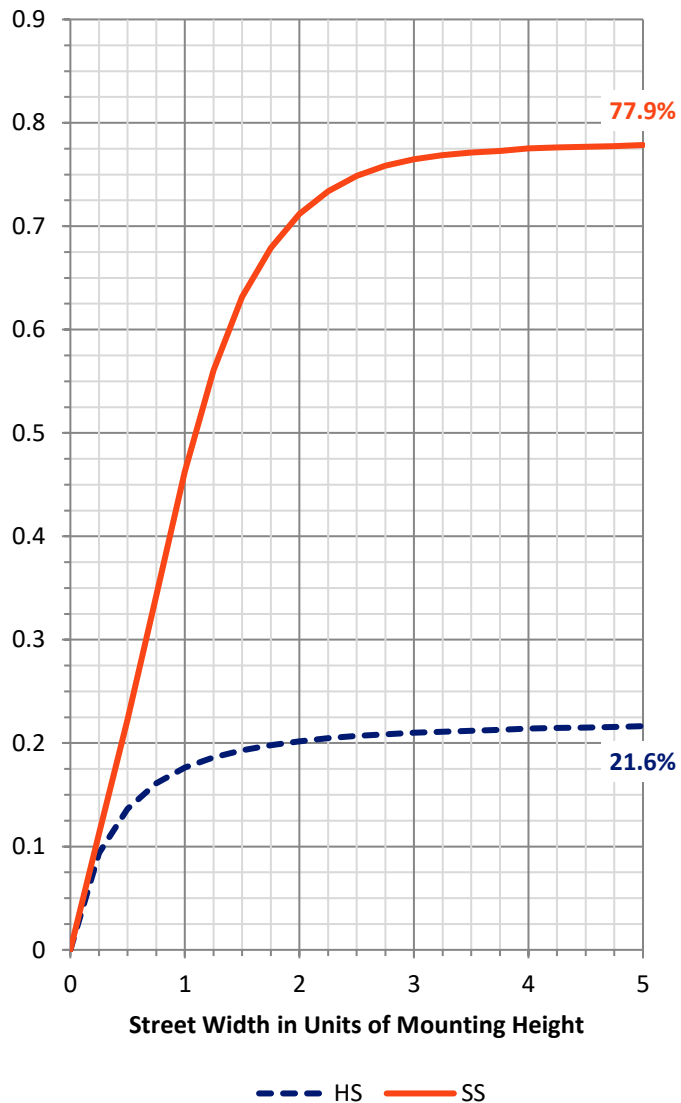
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1707.7	0.0	1707.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6090.5	0.0	6090.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	7798.2	0.0	7798.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	1.3
10°-20°	299.5	3.8
20°-30°	512.1	6.6
30°-40°	823.5	10.6
40°-50°	1285.7	16.5
50°-60°	1717.5	22.0
60°-70°	1830.5	23.5
70°-80°	1126.9	14.5
80°-90°	98.7	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°	7798.2	100.0
0°-180°	7798.2	100.0

Coefficient of Utilization

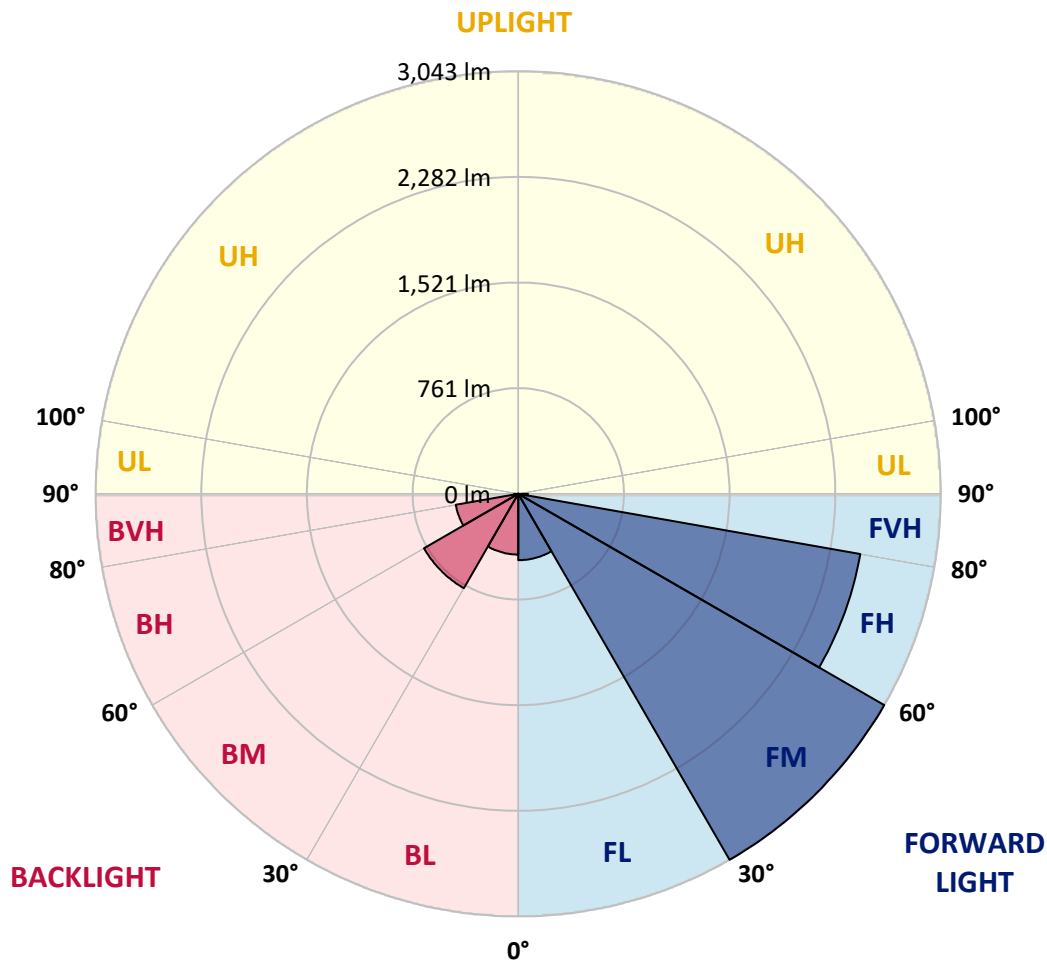


REPORT NUMBER: P961320
 CATALOG NUMBER: NAV-SB2A-722-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.8	6.1			
FM (30°-60°)	3042.7	39.0			
FH (60°-80°)	2501.0	32.1			G2/5000
FVH (80°-90°)	69.0	0.9			G1/100
BL (0°-30°)	437.6	5.6	B1/500		
BM (30°-60°)	784.0	10.1	B1/1000		
BH (60°-80°)	456.4	5.9	B1/500		G1/500
BVH (80°-90°)	29.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium



REPORT NUMBER: P961320
 CATALOG NUMBER: NAV-SB2A-722-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9
2.5°	1002.9	1002.4	1007.7	1009.2	1018.8	1025.6	1038.4	1052.0	1069.6	1071.5	1082.3
5°	944.9	944.9	950.9	957.4	969.8	983.3	1002.9	1026.4	1056.8	1061.6	1088.3
7.5°	895.8	899.0	904.2	916.6	931.0	950.5	980.5	1014.0	1054.0	1061.6	1104.7
10°	856.3	859.9	866.2	876.3	897.8	925.0	964.1	1007.3	1060.8	1072.8	1128.6
12.5°	843.9	847.5	851.1	858.6	878.6	910.6	957.4	1010.4	1077.2	1089.2	1161.4
15°	872.7	877.1	874.2	872.3	882.6	911.8	960.5	1022.0	1097.5	1114.7	1201.7
17.5°	938.9	940.5	934.2	915.4	913.8	929.4	975.7	1038.0	1123.1	1141.8	1242.5
20°	1046.0	1043.1	1030.0	992.9	971.7	968.5	1001.6	1062.0	1149.4	1169.4	1286.4
22.5°	1191.4	1188.2	1161.8	1103.1	1056.0	1024.8	1039.1	1093.2	1179.0	1201.3	1329.1
25°	1372.7	1368.3	1329.5	1249.7	1176.6	1099.5	1090.3	1134.3	1215.3	1236.0	1373.9
27.5°	1584.3	1580.8	1538.8	1433.4	1328.0	1201.7	1153.8	1182.5	1253.3	1276.8	1424.2
30°	1812.0	1822.3	1748.1	1634.7	1501.3	1335.2	1239.3	1242.1	1302.4	1323.6	1485.3
32.5°	2079.6	2097.6	2008.1	1864.3	1682.2	1480.1	1347.2	1325.1	1373.9	1391.4	1562.4
35°	2344.8	2365.2	2290.9	2131.9	1922.2	1651.1	1459.7	1420.6	1468.9	1488.1	1664.6
37.5°	2574.0	2601.1	2562.8	2424.6	2179.0	1857.1	1606.7	1532.8	1586.0	1609.9	1802.1
40°	2755.0	2796.5	2793.6	2707.4	2481.7	2107.2	1793.2	1671.5	1731.3	1757.3	1968.5
42.5°	2901.9	2937.9	2969.0	2964.6	2797.6	2391.1	2012.5	1851.6	1897.1	1927.0	2155.9
45°	3003.4	3041.7	3108.8	3181.1	3101.6	2695.0	2263.7	2065.2	2106.8	2151.9	2379.1
47.5°	3094.1	3137.5	3224.6	3339.2	3359.6	3000.2	2538.9	2314.0	2352.0	2398.7	2603.2
50°	3102.1	3139.6	3274.6	3437.1	3542.9	3293.3	2834.4	2593.1	2628.7	2678.6	2843.2
52.5°	2909.2	2968.2	3203.8	3434.3	3627.2	3538.5	3128.0	2883.5	2923.5	2983.4	3091.6
55°	2258.1	2344.8	2996.6	3327.3	3597.2	3697.1	3407.1	3192.3	3243.4	3306.1	3341.6
57.5°	1945.0	1983.0	2378.7	3132.4	3460.6	3738.3	3642.7	3504.2	3586.5	3655.2	3606.1
60°	1748.1	1779.6	2013.7	2829.2	3280.9	3673.1	3824.9	3795.0	3937.1	4019.0	3876.4
62.5°	1537.2	1567.2	1780.0	2362.3	3050.9	3564.8	3939.9	4063.3	4296.6	4386.1	4131.3
65°	1328.0	1353.5	1557.6	1984.9	2758.6	3456.7	3999.4	4295.4	4629.2	4721.9	4342.9
67.5°	1094.7	1115.9	1308.8	1674.6	2403.1	3308.5	4029.0	4477.9	4918.8	4998.3	4447.6
70°	790.0	806.4	1005.6	1324.4	1956.9	3053.7	4017.0	4607.3	5068.9	5132.5	4368.4
72.5°	373.4	388.2	622.3	859.9	1382.3	2557.7	3774.6	4504.7	4916.4	4884.8	3884.4
75°	199.3	212.1	357.4	471.7	730.1	1753.3	3088.8	3880.4	4128.4	3975.1	2870.7
77.5°	135.0	144.9	221.3	283.2	333.5	832.3	1985.3	2686.6	2584.8	2331.6	1437.8
80°	107.0	117.5	181.3	191.7	161.3	300.7	820.3	1243.6	893.4	714.5	409.0
82.5°	82.3	93.9	152.5	139.0	87.8	123.4	238.8	393.4	228.9	174.1	99.0
85°	50.3	62.7	119.8	88.7	49.5	56.3	81.1	109.5	69.9	58.3	35.6
87.5°	25.5	36.0	60.7	32.4	22.3	13.2	21.5	21.5	18.3	16.0	9.2
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: P961320
 CATALOG NUMBER: NAV-SB2A-722-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9
2.5°	1091.9	1099.9	1113.5	1126.3	1136.2	1145.8	1155.4	1160.6	1162.2	1168.6	1172.2
5°	1104.7	1119.5	1145.8	1170.6	1186.1	1195.8	1202.5	1206.5	1207.3	1209.3	1212.6
7.5°	1128.2	1151.8	1188.6	1213.3	1224.9	1224.2	1221.3	1211.3	1207.3	1203.8	1204.6
10°	1161.4	1192.6	1237.7	1254.9	1247.6	1228.5	1203.8	1174.5	1161.0	1147.8	1143.8
12.5°	1202.5	1242.1	1286.4	1285.7	1250.1	1201.0	1143.4	1098.7	1070.3	1050.0	1045.2
15°	1252.4	1298.0	1332.0	1304.8	1226.9	1138.7	1054.4	996.1	970.5	948.1	945.8
17.5°	1304.0	1352.7	1368.3	1298.8	1168.6	1046.4	950.9	905.0	879.9	867.9	871.5
20°	1354.3	1402.6	1389.9	1264.4	1079.9	941.8	856.7	831.5	826.4	829.1	827.9
22.5°	1407.4	1450.6	1394.2	1198.1	966.9	834.8	788.0	788.7	800.3	808.7	810.8
25°	1461.8	1490.9	1382.6	1102.3	845.5	756.0	744.5	757.3	780.0	796.3	800.7
27.5°	1514.0	1526.8	1357.5	983.7	741.3	699.8	701.7	728.1	762.4	785.2	790.8
30°	1573.2	1558.8	1309.1	850.2	669.0	651.4	668.2	698.9	733.3	753.7	758.4
32.5°	1639.9	1586.4	1232.5	726.8	617.9	612.6	640.2	660.2	675.4	681.3	684.5
35°	1722.9	1625.1	1134.3	640.2	571.9	584.2	610.7	600.6	594.7	591.5	594.7
37.5°	1830.8	1677.4	1019.3	583.9	534.7	564.0	574.7	543.6	520.0	508.4	511.2
40°	1960.6	1754.1	908.6	540.4	511.2	546.3	527.6	490.1	460.1	443.7	445.0
42.5°	2104.7	1834.3	815.5	507.6	498.0	532.0	492.8	448.1	399.7	394.6	399.7
45°	2256.1	1917.1	752.0	482.5	491.6	519.6	472.8	400.6	366.2	387.4	398.6
47.5°	2407.5	1992.9	713.7	463.7	488.4	505.6	455.3	374.2	349.8	380.6	395.0
50°	2576.0	2060.9	696.5	450.1	484.8	500.0	429.0	367.5	332.7	353.0	368.3
52.5°	2743.4	2113.5	683.8	436.5	479.7	495.6	416.2	359.5	311.9	313.1	321.5
55°	2910.3	2147.9	669.7	418.5	468.1	486.1	414.9	350.7	296.3	290.8	294.8
57.5°	3088.4	2167.5	652.6	398.6	448.1	461.7	413.8	343.9	291.5	282.4	283.5
60°	3269.7	2196.2	630.3	374.2	421.4	432.6	410.9	341.4	288.7	273.2	274.4
62.5°	3432.3	2206.2	603.4	351.1	387.0	403.7	405.0	339.5	281.2	254.4	254.4
65°	3538.9	2163.1	556.8	324.7	349.8	374.2	393.4	332.7	267.6	240.9	240.9
67.5°	3534.5	2040.1	483.7	290.8	314.0	341.4	376.6	321.1	251.2	224.1	225.3
70°	3370.0	1797.2	391.0	251.2	274.4	306.4	355.1	303.9	231.6	205.7	208.1
72.5°	2890.3	1406.6	283.9	204.9	228.5	270.0	327.1	283.2	211.7	189.3	188.1
75°	2064.9	890.2	192.5	157.3	177.7	228.9	292.3	258.8	193.3	190.1	179.3
77.5°	1054.7	425.4	127.4	115.0	123.8	180.5	245.6	231.2	196.1	156.9	139.8
80°	343.1	156.9	80.3	78.3	82.3	120.2	190.1	189.7	148.5	106.6	94.3
82.5°	109.5	67.4	52.3	50.3	48.3	75.4	132.6	150.2	100.2	67.4	67.1
85°	43.6	40.4	30.7	28.4	20.4	35.6	69.5	99.8	74.7	48.7	49.9
87.5°	16.0	16.0	8.4	5.9	4.4	12.0	18.8	29.9	42.7	25.1	24.8
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)