

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: P961306

Luminaire Tested: **NAV-SB2A-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961306
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-SB2A-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7529.6 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

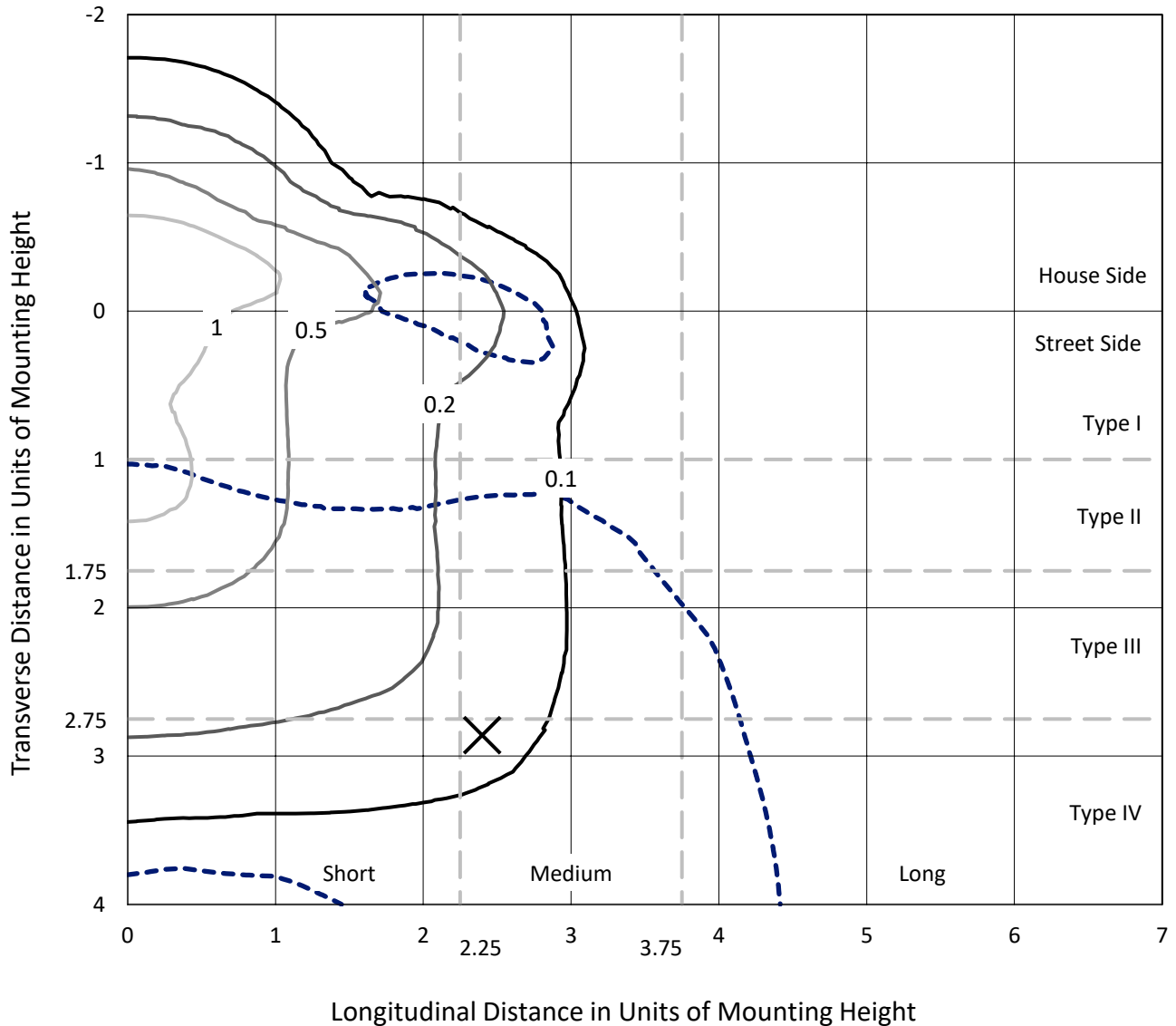
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

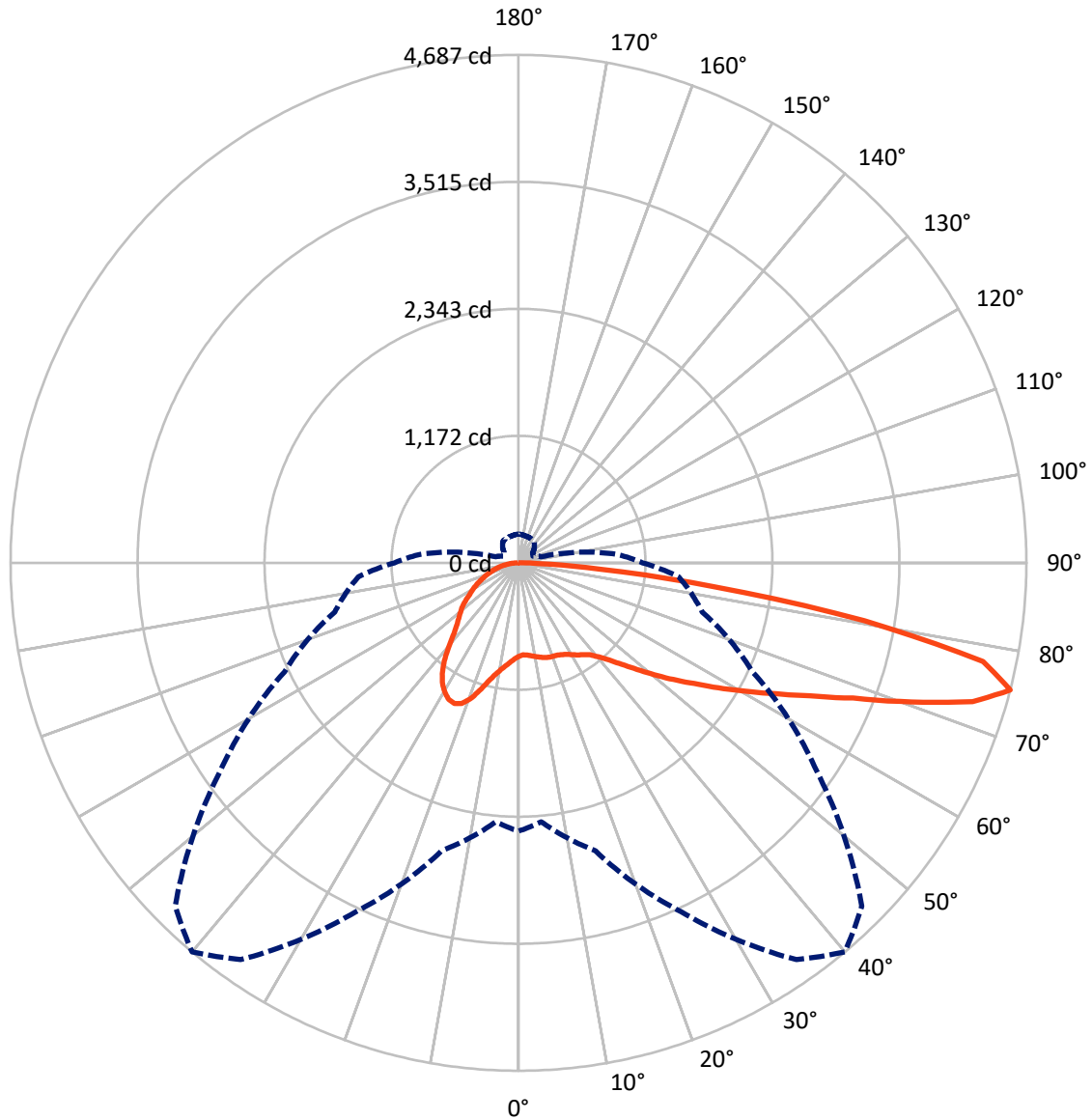
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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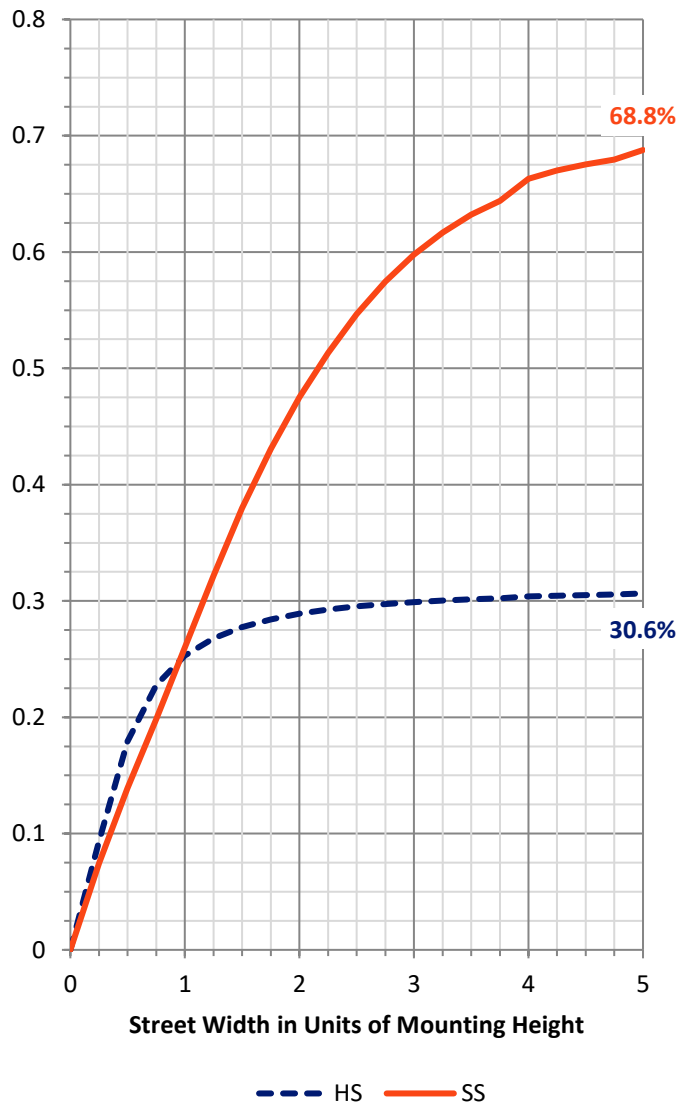
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2332.9	0.0	2332.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5196.7	0.0	5196.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	7529.6	0.0	7529.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	1.1
10°-20°	288.6	3.8
20°-30°	526.9	7.0
30°-40°	747.3	9.9
40°-50°	1009.0	13.4
50°-60°	1357.4	18.0
60°-70°	1722.9	22.9
70°-80°	1563.6	20.8
80°-90°	227.9	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°	7529.6	100.0
0°-180°	7529.6	100.0

Coefficient of Utilization

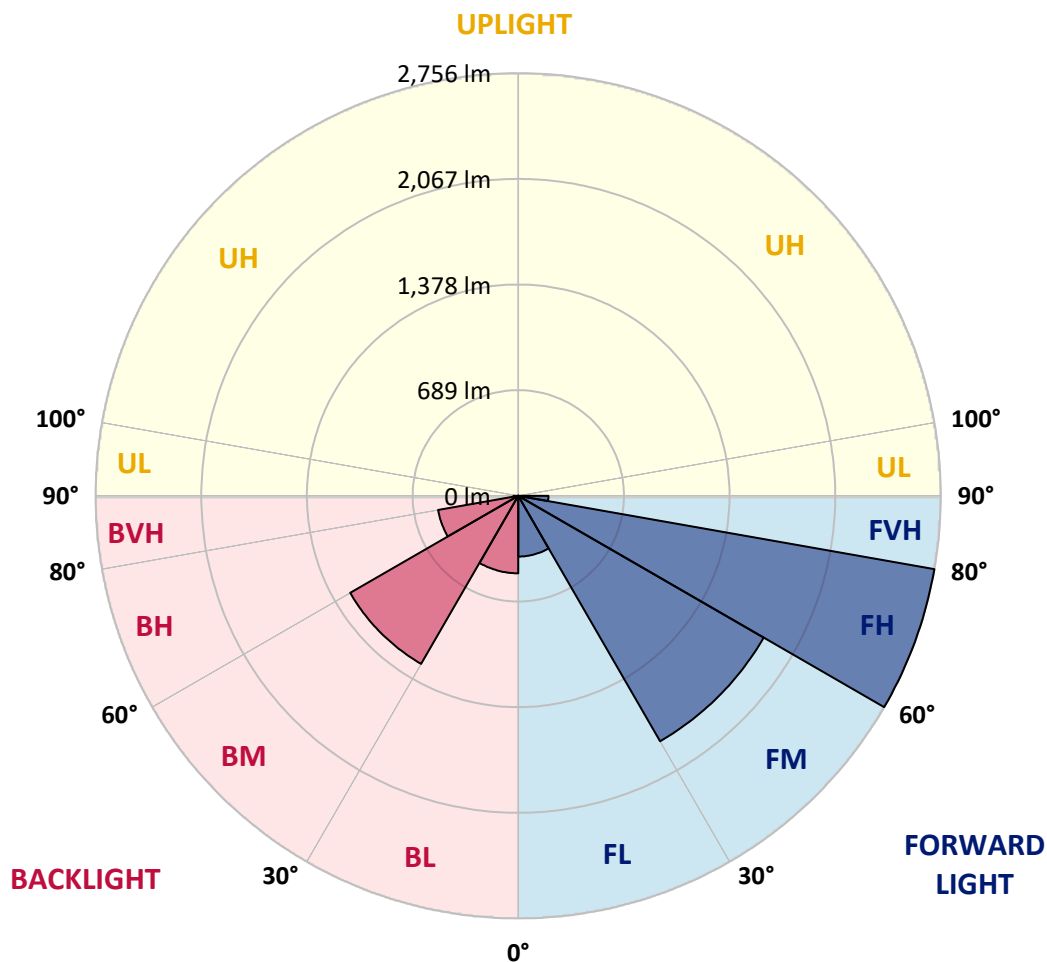


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.1	5.3			
FM (30°-60°)	1848.4	24.5			
FH (60°-80°)	2755.7	36.6			G2/5000
FVH (80°-90°)	196.5	2.6			G2/225
BL (0°-30°)	505.3	6.7	B2/1000		
BM (30°-60°)	1265.4	16.8	B2/2500		
BH (60°-80°)	530.8	7.0	B2/1000		G2/1000
BVH (80°-90°)	31.4	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-G2
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0
2.5°	847.9	852.6	851.5	849.8	849.8	850.2	849.8	852.6	855.5	858.2	862.6
5°	856.6	861.4	859.1	857.0	855.5	855.1	853.8	853.4	855.1	858.6	864.6
7.5°	873.8	878.6	875.0	871.5	868.2	866.6	865.0	862.6	861.4	863.5	871.8
10°	893.0	897.8	893.4	887.0	881.8	879.8	878.2	875.8	874.2	875.5	884.6
12.5°	912.1	917.0	910.9	902.2	895.3	894.2	892.2	891.3	890.9	890.6	899.7
15°	930.1	934.1	926.5	916.1	909.0	906.9	905.0	906.2	908.2	910.5	921.0
17.5°	944.1	948.1	937.0	923.3	916.6	915.7	914.5	918.5	924.1	930.1	942.9
20°	956.8	960.8	946.5	928.1	920.1	920.1	920.6	929.0	937.0	945.7	963.3
22.5°	974.9	978.1	960.4	935.3	923.7	924.6	927.7	936.1	946.1	958.1	982.5
25°	1001.6	1004.0	982.5	948.8	935.7	938.1	940.8	944.8	954.5	968.4	1001.2
27.5°	1044.8	1046.7	1018.3	972.8	952.8	956.8	960.8	958.1	962.5	974.5	1016.4
30°	1105.5	1106.6	1070.7	1010.3	982.1	984.0	984.8	973.2	964.8	974.5	1027.2
32.5°	1177.3	1176.9	1134.2	1056.0	1015.2	1013.2	1006.3	983.6	964.0	972.4	1036.8
35°	1288.7	1284.3	1229.3	1119.8	1052.7	1040.4	1024.4	995.2	968.0	970.5	1045.1
37.5°	1473.2	1459.7	1383.4	1224.5	1108.6	1077.1	1053.5	1014.0	976.8	969.6	1055.1
40°	1681.3	1664.2	1580.2	1367.9	1192.5	1141.7	1103.8	1040.8	991.2	973.2	1069.9
42.5°	1928.1	1903.7	1813.5	1536.8	1298.8	1225.3	1168.1	1074.7	1012.4	984.8	1089.9
45°	2231.2	2198.9	2071.1	1727.2	1432.5	1334.7	1258.4	1126.2	1044.8	1007.2	1119.8
47.5°	2537.6	2545.6	2363.9	1945.2	1593.1	1469.6	1371.4	1203.7	1091.8	1043.1	1168.1
50°	2863.0	2868.7	2655.0	2186.9	1775.2	1622.2	1498.4	1290.4	1157.3	1094.3	1240.5
52.5°	3117.0	3117.8	2919.3	2439.7	1964.8	1790.0	1635.4	1389.4	1233.3	1162.1	1336.7
55°	3276.0	3274.0	3104.6	2678.9	2182.9	1966.1	1787.2	1502.0	1325.8	1242.0	1457.7
57.5°	3391.4	3385.4	3232.4	2884.6	2415.3	2174.1	1958.9	1629.7	1435.3	1337.1	1617.0
60°	3435.3	3431.7	3319.1	3062.3	2659.8	2404.1	2156.9	1772.7	1559.5	1449.2	1821.9
62.5°	3452.1	3458.9	3404.1	3234.4	2921.4	2659.0	2374.6	1943.7	1699.2	1576.2	2037.9
65°	3511.2	3523.5	3512.4	3459.7	3216.9	2957.3	2663.4	2147.0	1851.9	1712.5	2263.6
67.5°	3628.2	3640.6	3645.4	3729.3	3577.9	3329.1	3023.5	2400.1	2030.3	1853.8	2433.4
70°	3625.4	3621.8	3706.5	3943.7	4030.0	3843.9	3509.2	2711.6	2243.2	1971.3	2454.9
72.5°	3299.9	3271.2	3471.3	3941.3	4406.2	4381.4	4102.3	3113.4	2426.9	1985.6	2130.2
75°	2475.7	2399.0	2752.4	3551.9	4468.9	4686.5	4479.2	3362.6	2383.4	1754.4	1482.5
77.5°	1058.7	981.6	1398.2	2629.4	3999.7	4381.1	4133.4	2933.8	1902.6	1160.2	728.1
80°	277.2	276.8	422.5	1192.1	2720.0	3235.2	2838.2	1894.6	1087.1	414.5	200.9
82.5°	114.6	111.8	155.4	463.7	1329.1	1815.5	1481.6	845.0	392.6	112.2	66.7
85°	42.7	42.3	75.4	160.1	468.8	748.8	541.9	216.1	97.9	54.7	29.9
87.5°	12.0	11.6	16.4	55.6	114.2	173.3	92.7	35.6	27.6	21.5	8.8
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°	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0
2.5°	863.9	865.8	869.4	872.2	875.8	879.8	885.4	889.0	892.6	894.9	893.4
5°	867.5	871.8	881.0	890.2	901.0	910.9	922.5	930.9	937.7	939.7	940.5
7.5°	875.5	882.6	898.2	913.8	930.9	947.3	964.0	978.5	990.0	994.5	994.8
10°	889.4	898.9	921.0	942.9	965.7	990.9	1012.4	1033.2	1049.5	1056.4	1056.7
12.5°	906.9	918.9	947.7	978.1	1009.6	1044.4	1072.3	1097.9	1118.2	1127.4	1127.4
15°	929.7	945.3	982.1	1022.7	1069.1	1117.5	1152.9	1181.3	1204.1	1215.2	1214.4
17.5°	954.5	975.3	1021.6	1083.1	1149.3	1212.9	1254.4	1275.2	1298.8	1309.5	1309.1
20°	978.5	1004.0	1070.3	1159.8	1248.0	1315.5	1349.0	1354.6	1356.3	1357.4	1360.6
22.5°	1003.2	1037.5	1131.4	1256.4	1351.1	1397.8	1402.6	1378.6	1345.0	1329.5	1333.8
25°	1030.3	1075.8	1211.2	1363.0	1439.7	1445.2	1408.6	1350.2	1286.8	1257.6	1262.0
27.5°	1056.7	1120.2	1307.1	1464.8	1503.6	1454.5	1375.4	1292.7	1216.1	1185.3	1188.9
30°	1083.1	1171.0	1413.0	1553.9	1532.8	1431.7	1323.1	1230.8	1153.7	1121.5	1125.0
32.5°	1109.9	1230.0	1534.7	1618.2	1527.6	1383.4	1258.0	1161.3	1093.5	1059.5	1063.9
35°	1140.2	1302.7	1650.1	1653.3	1492.8	1312.3	1172.1	1078.3	1019.2	992.0	998.0
37.5°	1179.7	1394.9	1752.0	1662.1	1432.1	1208.1	1065.5	980.0	931.3	918.9	927.7
40°	1228.9	1506.0	1829.8	1648.2	1342.2	1081.5	948.8	880.6	853.0	855.9	865.4
42.5°	1292.7	1630.2	1884.6	1612.2	1217.3	950.9	846.6	816.3	829.4	840.7	851.1
45°	1375.8	1759.2	1918.5	1551.1	1075.8	840.3	786.4	793.6	803.5	804.7	812.7
47.5°	1482.0	1889.8	1940.9	1458.9	931.7	762.4	748.0	749.6	747.6	739.2	745.6
50°	1614.6	2016.8	1960.8	1336.7	809.1	713.7	694.5	688.9	661.3	634.2	637.8
52.5°	1765.6	2133.4	1969.2	1184.9	713.7	672.9	641.8	606.6	555.1	546.7	549.5
55°	1933.4	2241.3	1947.7	998.5	633.3	620.6	573.5	531.2	525.5	518.3	519.6
57.5°	2133.7	2357.4	1903.7	790.4	551.1	559.5	513.6	518.3	508.4	497.2	495.2
60°	2353.1	2477.6	1826.7	600.6	466.1	483.2	498.0	497.6	494.8	485.6	482.5
62.5°	2550.3	2556.8	1675.0	460.0	391.3	424.1	464.4	464.0	461.7	456.4	454.5
65°	2667.8	2544.8	1421.8	362.2	329.8	375.4	418.9	422.1	422.5	422.1	422.1
67.5°	2647.0	2404.5	1074.3	288.3	279.1	325.8	373.8	378.2	381.4	382.2	382.9
70°	2412.1	2096.6	700.5	230.0	234.0	282.4	331.1	335.5	338.2	341.4	343.1
72.5°	1880.2	1541.5	401.0	186.1	194.4	244.8	288.7	294.0	295.5	301.6	303.9
75°	1145.7	906.5	216.5	146.6	159.7	209.3	246.8	252.8	255.6	262.8	263.6
77.5°	544.7	392.6	123.4	114.2	128.6	171.0	208.5	215.2	207.7	211.7	208.5
80°	184.1	145.8	77.9	87.0	98.2	133.4	167.0	173.7	157.7	156.9	155.4
82.5°	64.3	59.1	49.5	57.9	63.4	95.4	126.2	135.0	117.4	117.1	111.4
85°	25.1	24.0	27.6	31.6	37.9	58.7	83.0	87.4	72.3	58.3	57.5
87.5°	5.2	5.6	6.8	7.2	11.6	20.4	29.9	36.7	29.1	24.8	22.8
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)