

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: P882374

Luminaire Tested: **NAV-SB2B-722-U-SL4**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-722-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

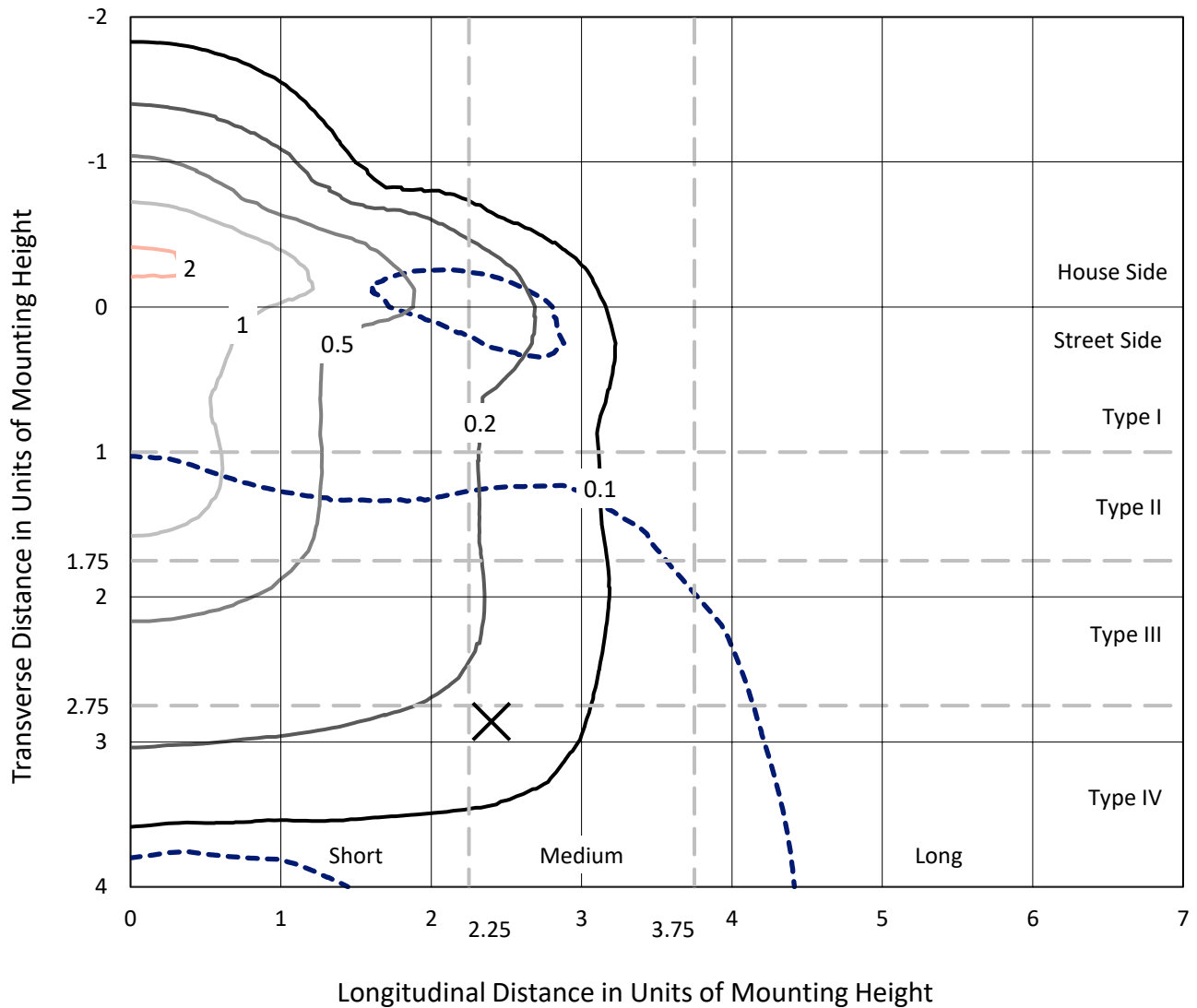
Lumens per Lamp: N/A  
Luminaire Lumens: 9065 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
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

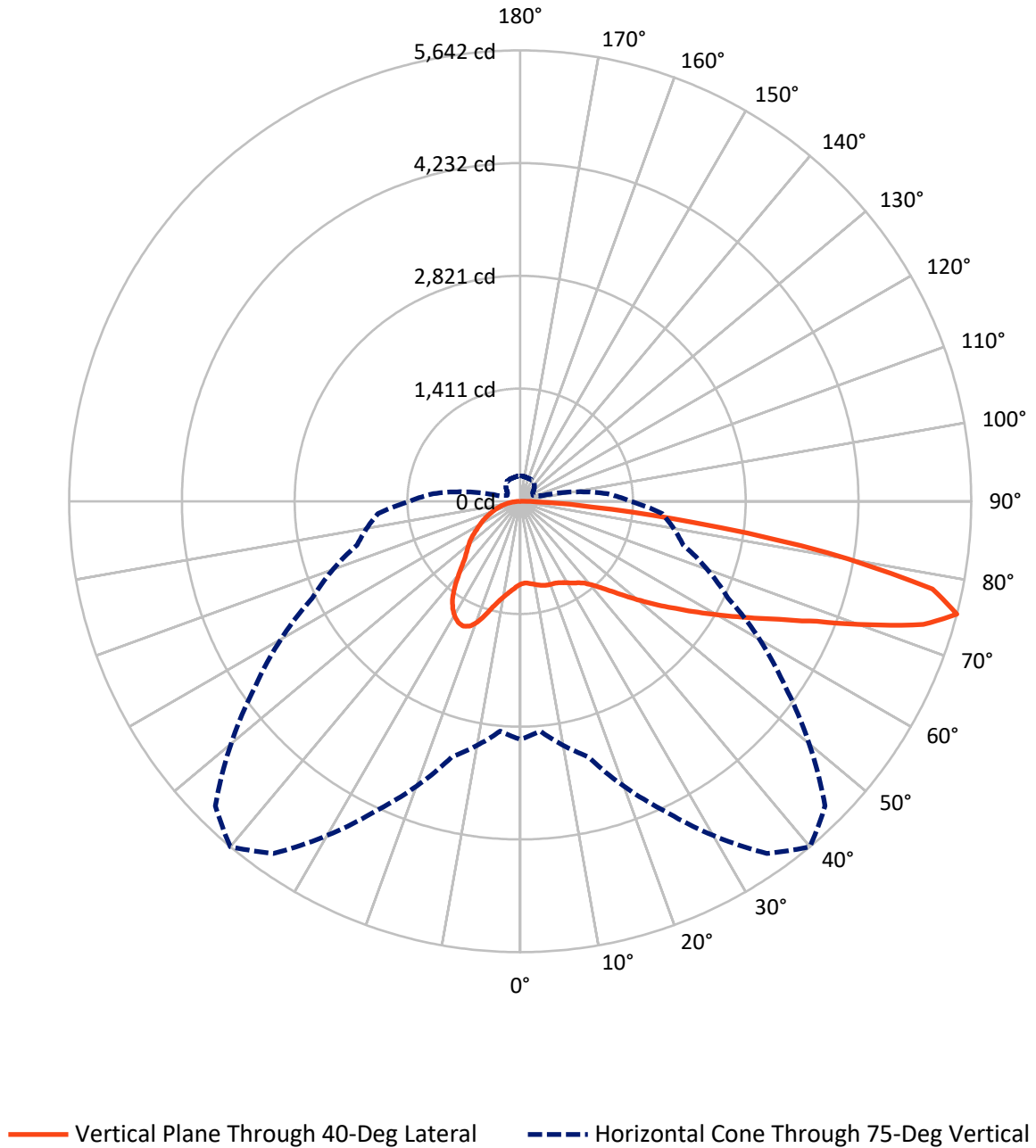
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2808.6	0.0	2808.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	6256.4	0.0	6256.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	9065.0	0.0	9065.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.5	1.1
10°-20°	347.4	3.8
20°-30°	634.3	7.0
30°-40°	899.7	9.9
40°-50°	1214.8	13.4
50°-60°	1634.2	18.0
60°-70°	2074.2	22.9
70°-80°	1882.5	20.8
80°-90°	274.4	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°	9065.0	100.0
0°-180°	9065.0	100.0

**Coefficient of Utilization**



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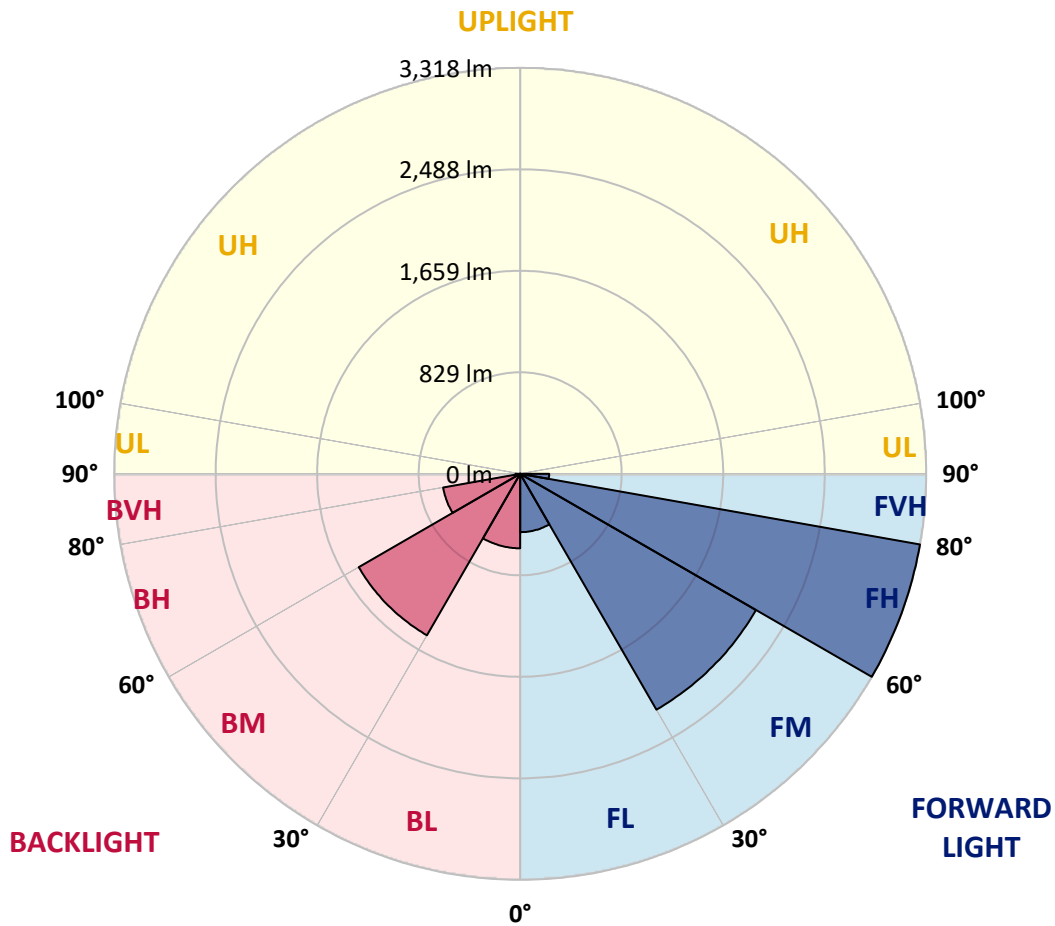
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	476.8	5.3			
FM (30°-60°)	2225.3	24.5			
FH (60°-80°)	3317.7	36.6			G2/5000
FVH (80°-90°)	236.6	2.6			G3/500
BL (0°-30°)	608.4	6.7	B2/1000		
BM (30°-60°)	1523.4	16.8	B2/2500		
BH (60°-80°)	639.0	7.0	B2/1000		G2/1000
BVH (80°-90°)	37.8	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°	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6
2.5°	1020.7	1026.5	1025.1	1023.1	1023.1	1023.6	1023.1	1026.5	1029.9	1033.2	1038.5
5°	1031.3	1037.1	1034.2	1031.8	1029.9	1029.4	1027.9	1027.5	1029.4	1033.7	1040.9
7.5°	1052.0	1057.7	1053.4	1049.1	1045.2	1043.3	1041.4	1038.5	1037.1	1039.5	1049.6
10°	1075.1	1080.8	1075.5	1067.8	1061.6	1059.2	1057.3	1054.4	1052.5	1053.9	1065.0
12.5°	1098.1	1103.9	1096.7	1086.1	1077.9	1076.5	1074.1	1073.1	1072.7	1072.2	1083.2
15°	1119.8	1124.6	1115.4	1102.9	1094.3	1091.9	1089.5	1090.9	1093.3	1096.2	1108.7
17.5°	1136.6	1141.4	1127.9	1111.6	1103.4	1102.5	1101.0	1105.8	1112.6	1119.8	1135.2
20°	1152.0	1156.8	1139.5	1117.4	1107.8	1107.8	1108.2	1118.3	1127.9	1138.5	1159.7
22.5°	1173.6	1177.5	1156.3	1126.0	1112.1	1113.0	1116.9	1127.0	1139.0	1153.4	1182.8
25°	1205.8	1208.7	1182.8	1142.4	1126.5	1129.4	1132.8	1137.6	1149.1	1165.9	1205.4
27.5°	1257.8	1260.2	1226.0	1171.2	1147.2	1152.0	1156.8	1153.4	1158.7	1173.1	1223.6
30°	1330.8	1332.3	1289.0	1216.4	1182.3	1184.7	1185.6	1171.7	1161.6	1173.1	1236.6
32.5°	1417.4	1416.9	1365.5	1271.2	1222.2	1219.8	1211.6	1184.2	1160.6	1170.7	1248.1
35°	1551.5	1546.2	1479.9	1348.2	1267.4	1252.5	1233.2	1198.1	1165.4	1168.3	1258.2
37.5°	1773.7	1757.3	1665.5	1474.1	1334.7	1296.7	1268.3	1220.7	1176.0	1167.4	1270.3
40°	2024.1	2003.5	1902.5	1646.7	1435.7	1374.6	1328.9	1253.0	1193.3	1171.7	1288.1
42.5°	2321.3	2292.0	2183.3	1850.1	1563.5	1475.1	1406.3	1293.8	1218.8	1185.6	1312.1
45°	2686.2	2647.3	2493.4	2079.4	1724.6	1606.8	1515.0	1355.8	1257.8	1212.6	1348.2
47.5°	3055.0	3064.6	2845.8	2342.0	1917.9	1769.3	1651.1	1449.1	1314.5	1255.8	1406.3
50°	3446.8	3453.6	3196.3	2632.8	2137.1	1953.0	1803.9	1553.4	1393.3	1317.4	1493.4
52.5°	3752.6	3753.6	3514.6	2937.2	2365.5	2154.9	1968.9	1672.7	1484.7	1399.1	1609.2
55°	3944.0	3941.6	3737.7	3225.2	2628.0	2367.0	2151.6	1808.3	1596.2	1495.3	1754.9
57.5°	4082.9	4075.7	3891.6	3472.8	2907.9	2617.5	2358.3	1962.1	1728.0	1609.7	1946.7
60°	4135.8	4131.5	3995.9	3686.7	3202.1	2894.4	2596.8	2134.3	1877.5	1744.8	2193.4
62.5°	4156.0	4164.2	4098.3	3894.0	3517.0	3201.1	2858.8	2340.0	2045.8	1897.7	2453.5
65°	4227.2	4242.1	4228.6	4165.1	3872.8	3560.3	3206.4	2584.8	2229.4	2061.7	2725.1
67.5°	4368.0	4382.9	4388.7	4489.7	4307.4	4007.9	3640.1	2889.6	2444.4	2231.9	2929.5
70°	4364.7	4360.3	4462.3	4747.9	4851.7	4627.7	4224.7	3264.6	2700.6	2373.2	2955.4
72.5°	3972.8	3938.2	4179.1	4745.0	5304.6	5274.8	4938.7	3748.3	2921.8	2390.5	2564.6
75°	2980.5	2888.1	3313.6	4276.2	5380.1	5642.1	5392.6	4048.3	2869.4	2112.1	1784.7
77.5°	1274.6	1181.8	1683.3	3165.6	4815.2	5274.3	4976.2	3531.9	2290.5	1396.7	876.5
80°	333.7	333.2	508.7	1435.2	3274.7	3894.9	3417.0	2280.9	1308.7	499.1	241.8
82.5°	138.0	134.6	187.0	558.2	1600.1	2185.7	1783.8	1017.4	472.6	135.1	80.3
85°	51.4	51.0	90.9	192.8	564.5	901.5	652.4	260.1	117.8	65.9	36.1
87.5°	14.4	13.9	19.7	66.8	137.5	208.7	111.5	42.8	33.2	26.0	10.6
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°	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6
2.5°	1040.0	1042.4	1046.7	1050.1	1054.4	1059.2	1065.9	1070.3	1074.6	1077.5	1075.5
5°	1044.3	1049.6	1060.6	1071.7	1084.7	1096.7	1110.6	1120.7	1128.9	1131.3	1132.3
7.5°	1053.9	1062.6	1081.3	1100.1	1120.7	1140.4	1160.6	1177.9	1191.9	1197.2	1197.7
10°	1070.7	1082.3	1108.7	1135.2	1162.6	1192.9	1218.8	1243.8	1263.5	1271.7	1272.2
12.5°	1091.9	1106.3	1140.9	1177.5	1215.5	1257.3	1290.9	1321.7	1346.2	1357.3	1357.3
15°	1119.3	1138.0	1182.3	1231.3	1287.1	1345.3	1388.1	1422.2	1449.6	1463.1	1462.1
17.5°	1149.1	1174.1	1229.9	1303.9	1383.7	1460.2	1510.2	1535.2	1563.5	1576.5	1576.0
20°	1177.9	1208.7	1288.5	1396.2	1502.5	1583.7	1624.1	1630.9	1632.8	1634.2	1638.1
22.5°	1207.8	1249.1	1362.1	1512.6	1626.5	1682.8	1688.6	1659.7	1619.3	1600.6	1605.9
25°	1240.5	1295.3	1458.3	1641.0	1733.3	1740.0	1695.8	1625.6	1549.1	1514.0	1519.3
27.5°	1272.2	1348.6	1573.6	1763.6	1810.2	1751.1	1655.9	1556.3	1464.0	1427.0	1431.3
30°	1303.9	1409.7	1701.1	1870.8	1845.3	1723.7	1592.9	1481.8	1389.0	1350.1	1354.4
32.5°	1336.1	1480.8	1847.7	1948.2	1839.0	1665.5	1514.5	1398.2	1316.4	1275.6	1280.8
35°	1372.7	1568.4	1986.6	1990.5	1797.2	1579.9	1411.1	1298.1	1227.0	1194.3	1201.5
37.5°	1420.3	1679.4	2109.2	2001.1	1724.1	1454.4	1282.8	1179.9	1121.2	1106.3	1116.9
40°	1479.4	1813.1	2203.0	1984.2	1616.0	1302.0	1142.4	1060.2	1027.0	1030.3	1041.9
42.5°	1556.3	1962.6	2268.9	1941.0	1465.5	1144.8	1019.3	982.7	998.6	1012.1	1024.6
45°	1656.3	2117.9	2309.7	1867.4	1295.3	1011.6	946.7	955.3	967.4	968.8	978.4
47.5°	1784.2	2275.1	2336.7	1756.3	1121.7	917.8	900.5	902.5	900.0	890.0	897.6
50°	1943.9	2428.0	2360.7	1609.2	974.1	859.2	836.1	829.4	796.2	763.5	767.8
52.5°	2125.6	2568.4	2370.8	1426.5	859.2	810.1	772.6	730.3	668.3	658.2	661.6
55°	2327.5	2698.2	2344.8	1202.0	762.5	747.2	690.4	639.5	632.7	624.1	625.5
57.5°	2568.9	2838.1	2292.0	951.5	663.5	673.6	618.3	624.1	612.1	598.6	596.2
60°	2832.8	2982.9	2199.2	723.1	561.1	581.8	599.6	599.1	595.7	584.6	580.8
62.5°	3070.4	3078.1	2016.5	553.9	471.2	510.6	559.2	558.7	555.8	549.5	547.1
65°	3211.7	3063.6	1711.6	436.1	397.1	451.9	504.4	508.2	508.7	508.2	508.2
67.5°	3186.7	2894.9	1293.3	347.1	336.1	392.3	450.0	455.3	459.2	460.1	461.1
70°	2904.0	2524.2	843.3	276.9	281.7	339.9	398.6	403.9	407.2	411.1	413.0
72.5°	2263.6	1855.9	482.7	224.1	234.1	294.7	347.6	353.9	355.8	363.0	365.9
75°	1379.4	1091.4	260.6	176.5	192.3	251.9	297.1	304.3	307.7	316.4	317.3
77.5°	655.8	472.6	148.6	137.5	154.8	205.8	251.0	259.1	250.0	254.8	251.0
80°	221.6	175.5	93.8	104.8	118.3	160.6	201.0	209.1	189.9	189.0	187.0
82.5°	77.4	71.2	59.6	69.7	76.4	114.9	151.9	162.5	141.4	140.9	134.1
85°	30.3	28.8	33.2	38.0	45.7	70.7	100.0	105.3	87.0	70.2	69.2
87.5°	6.3	6.7	8.2	8.7	13.9	24.5	36.1	44.2	35.1	29.8	27.4
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)