

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: P960779

Luminaire Tested: **NAV-SB1D-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960779
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-SB1D-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8544.4 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

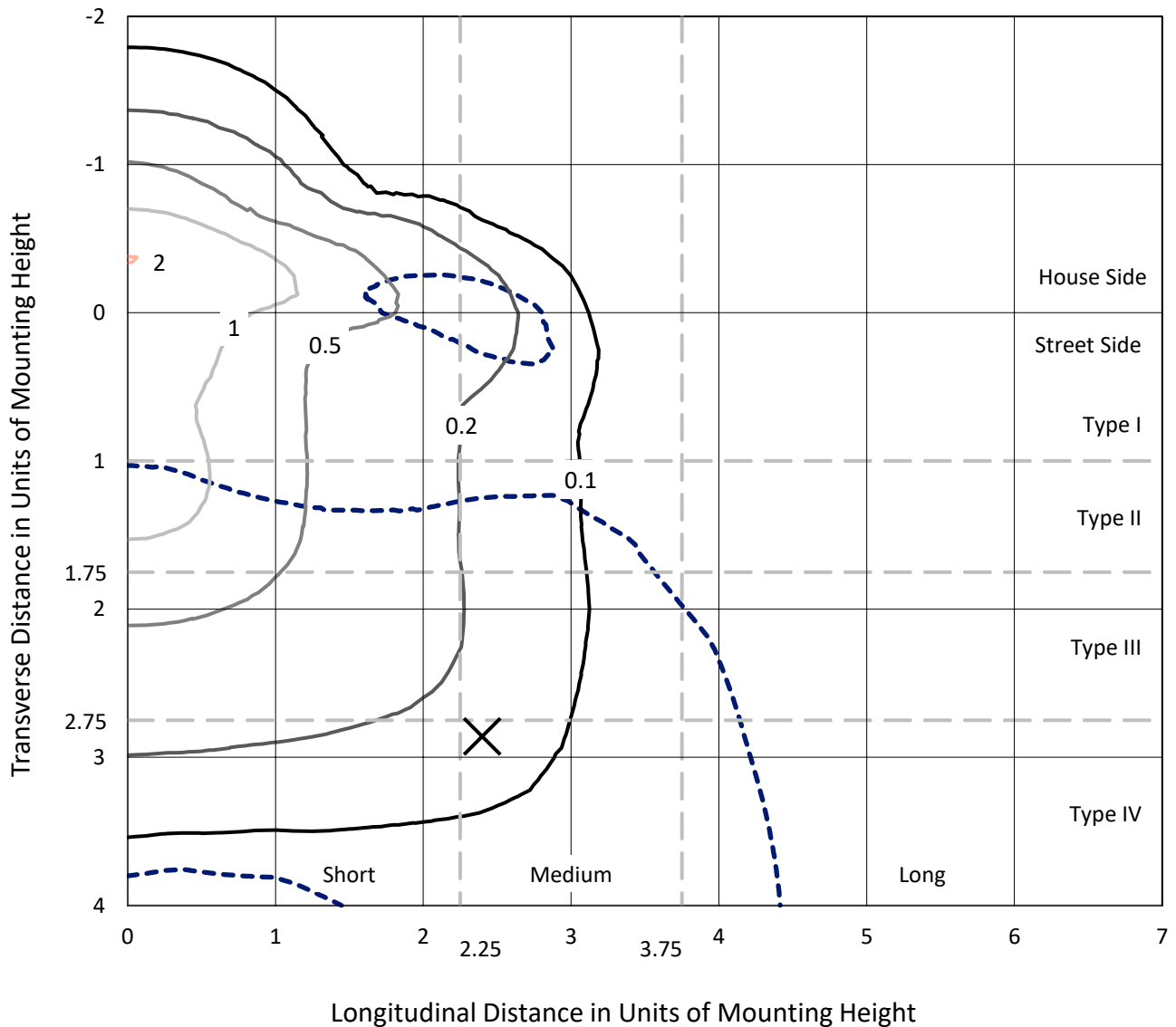
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

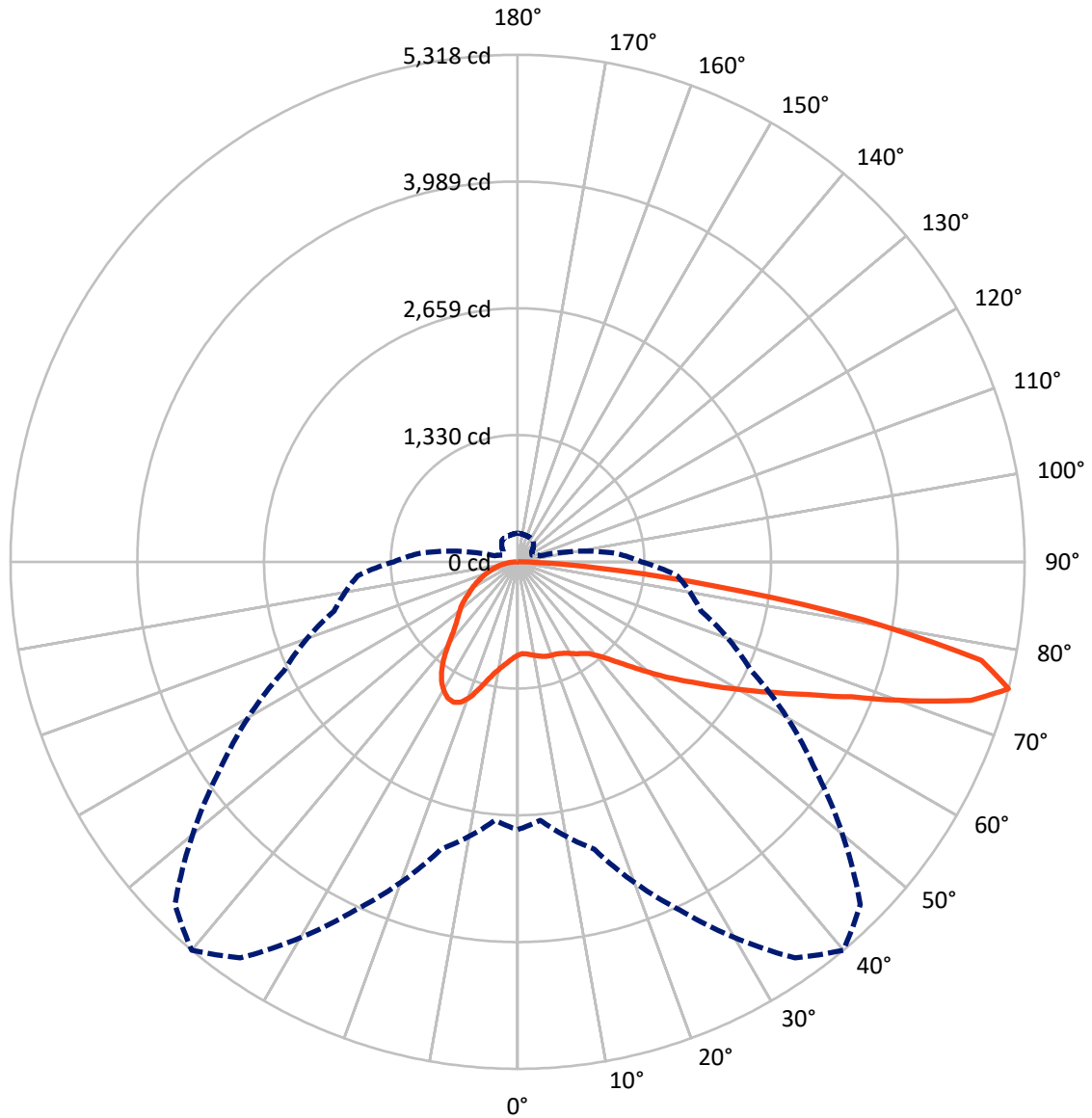
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	2647.3	0.0	2647.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5897.1	0.0	5897.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	8544.4	0.0	8544.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	1.1
10°-20°	327.5	3.8
20°-30°	597.9	7.0
30°-40°	848.0	9.9
40°-50°	1145.0	13.4
50°-60°	1540.4	18.0
60°-70°	1955.1	22.9
70°-80°	1774.4	20.8
80°-90°	258.6	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°	8544.4	100.0
0°-180°	8544.4	100.0

Coefficient of Utilization

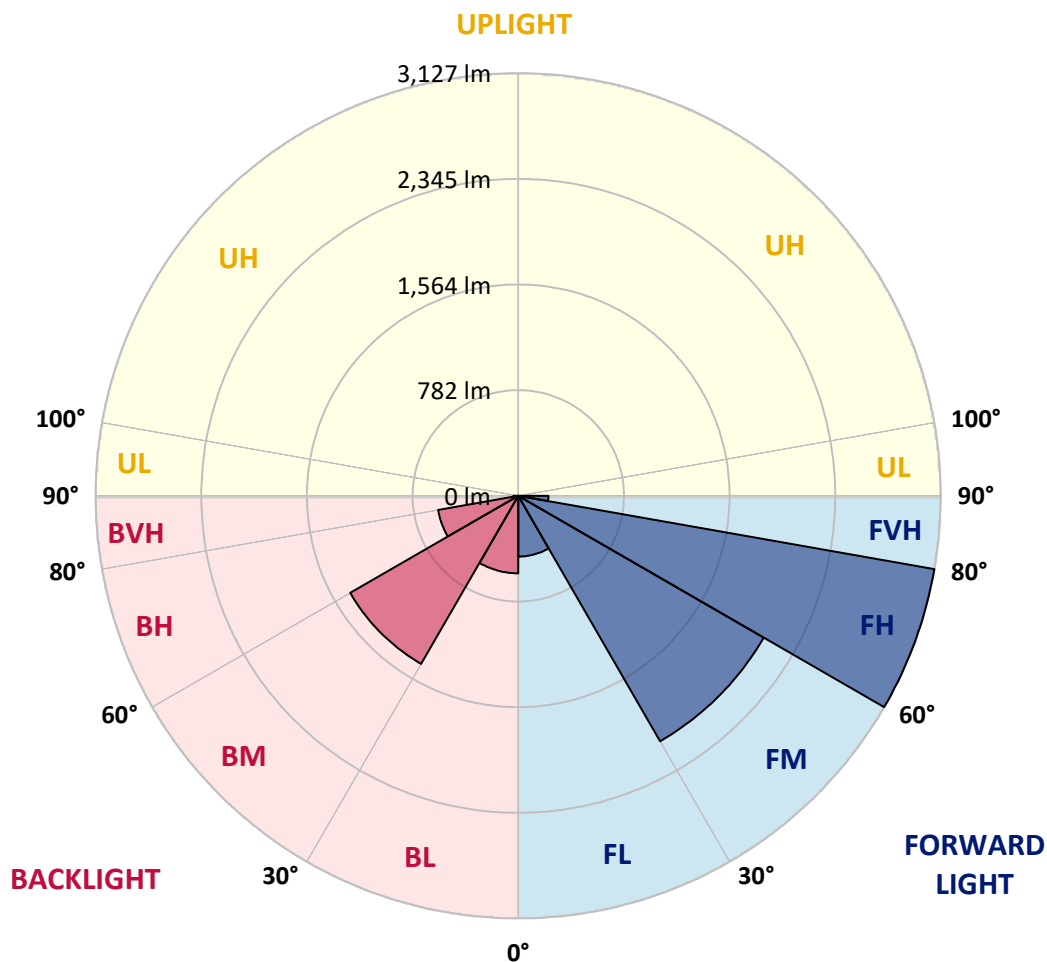


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.4	5.3			
FM (30°-60°)	2097.5	24.5			
FH (60°-80°)	3127.1	36.6			G2/5000
FVH (80°-90°)	223.0	2.6			G2/225
BL (0°-30°)	573.4	6.7	B2/1000		
BM (30°-60°)	1435.9	16.8	B2/2500		
BH (60°-80°)	602.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	35.6	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°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0
2.5°	962.1	967.5	966.2	964.4	964.4	964.8	964.4	967.5	970.7	973.9	978.9
5°	972.1	977.5	974.8	972.5	970.7	970.3	968.9	968.4	970.3	974.4	981.1
7.5°	991.6	997.0	992.9	988.8	985.2	983.4	981.6	978.9	977.5	979.8	989.3
10°	1013.3	1018.7	1013.7	1006.6	1000.6	998.4	996.5	993.8	992.0	993.3	1003.8
12.5°	1035.0	1040.5	1033.7	1023.8	1016.1	1014.6	1012.4	1011.5	1011.1	1010.6	1021.0
15°	1055.4	1060.0	1051.3	1039.6	1031.5	1029.2	1026.9	1028.3	1030.5	1033.3	1045.1
17.5°	1071.3	1075.8	1063.1	1047.8	1040.1	1039.1	1037.8	1042.3	1048.7	1055.4	1070.0
20°	1085.8	1090.4	1074.0	1053.2	1044.2	1044.2	1044.6	1054.1	1063.1	1073.2	1093.1
22.5°	1106.2	1109.9	1089.9	1061.4	1048.2	1049.1	1052.8	1062.3	1073.6	1087.2	1114.8
25°	1136.6	1139.3	1114.8	1076.8	1061.8	1064.6	1067.7	1072.3	1083.1	1099.0	1136.1
27.5°	1185.5	1187.8	1155.6	1103.9	1081.3	1085.8	1090.4	1087.2	1092.1	1105.8	1153.3
30°	1254.4	1255.7	1215.0	1146.6	1114.4	1116.6	1117.6	1104.4	1094.9	1105.8	1165.6
32.5°	1336.0	1335.6	1287.0	1198.2	1152.0	1149.7	1142.1	1116.2	1094.0	1103.5	1176.5
35°	1462.5	1457.4	1394.9	1270.7	1194.6	1180.5	1162.5	1129.3	1098.5	1101.3	1186.0
37.5°	1671.8	1656.4	1569.8	1389.5	1258.1	1222.2	1195.5	1150.7	1108.5	1100.3	1197.3
40°	1907.9	1888.5	1793.2	1552.2	1353.2	1295.7	1252.6	1181.0	1124.8	1104.4	1214.1
42.5°	2188.0	2160.3	2057.9	1743.8	1473.7	1390.4	1325.5	1219.5	1148.8	1117.6	1236.8
45°	2532.0	2495.3	2350.2	1960.0	1625.5	1514.5	1428.0	1278.0	1185.5	1143.0	1270.7
47.5°	2879.5	2888.6	2682.4	2207.4	1807.8	1667.7	1556.3	1365.9	1239.0	1183.7	1325.5
50°	3248.8	3255.2	3012.8	2481.6	2014.4	1840.8	1700.4	1464.2	1313.3	1241.7	1407.6
52.5°	3537.1	3538.0	3312.8	2768.5	2229.7	2031.1	1855.8	1576.7	1399.4	1318.8	1516.8
55°	3717.5	3715.2	3523.0	3039.9	2477.1	2231.0	2028.0	1704.5	1504.6	1409.4	1654.1
57.5°	3848.5	3841.6	3668.1	3273.3	2740.8	2467.2	2222.8	1849.4	1628.7	1517.3	1835.0
60°	3898.3	3894.2	3766.4	3475.1	3018.2	2728.1	2447.6	2011.7	1769.7	1644.6	2067.4
62.5°	3917.3	3925.0	3862.9	3670.3	3315.1	3017.3	2694.6	2205.6	1928.3	1788.7	2312.6
65°	3984.4	3998.4	3985.7	3926.0	3650.4	3355.8	3022.3	2436.3	2101.5	1943.3	2568.6
67.5°	4117.2	4131.3	4136.7	4231.8	4060.0	3777.7	3431.1	2723.6	2304.0	2103.7	2761.2
70°	4114.0	4109.9	4206.0	4475.2	4573.0	4361.9	3982.1	3077.2	2545.5	2237.0	2785.7
72.5°	3744.6	3712.0	3939.1	4472.5	5000.0	4971.9	4655.1	3533.0	2754.0	2253.3	2417.3
75°	2809.3	2722.3	3123.4	4030.6	5071.1	5318.1	5082.9	3815.8	2704.6	1990.9	1682.2
77.5°	1201.4	1114.0	1586.6	2983.8	4538.6	4971.5	4690.4	3329.1	2159.0	1316.5	826.2
80°	314.5	314.1	479.5	1352.8	3086.6	3671.2	3220.8	2149.9	1233.6	470.4	228.0
82.5°	130.1	126.9	176.3	526.1	1508.2	2060.1	1681.3	958.9	445.5	127.3	75.6
85°	48.5	48.1	85.7	181.7	532.1	849.7	615.0	245.2	111.0	62.1	34.0
87.5°	13.6	13.1	18.6	63.0	129.6	196.7	105.2	40.3	31.3	24.5	9.9
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°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0
2.5°	980.2	982.5	986.6	989.7	993.8	998.4	1004.7	1008.8	1012.9	1015.6	1013.7
5°	984.3	989.3	999.7	1010.1	1022.3	1033.7	1046.8	1056.4	1064.1	1066.3	1067.2
7.5°	993.3	1001.5	1019.3	1036.9	1056.4	1074.9	1094.0	1110.3	1123.4	1128.4	1128.8
10°	1009.2	1020.1	1045.1	1070.0	1095.8	1124.3	1148.8	1172.4	1190.9	1198.6	1199.1
12.5°	1029.2	1042.7	1075.4	1109.9	1145.6	1185.1	1216.8	1245.8	1268.9	1279.3	1279.3
15°	1055.0	1072.7	1114.4	1160.6	1213.2	1268.0	1308.3	1340.5	1366.3	1379.0	1378.1
17.5°	1083.1	1106.7	1159.3	1229.1	1304.3	1376.3	1423.4	1447.0	1473.7	1485.9	1485.5
20°	1110.3	1139.3	1214.5	1316.0	1416.2	1492.8	1530.8	1537.2	1539.0	1540.4	1544.0
22.5°	1138.4	1177.4	1283.9	1425.7	1533.1	1586.2	1591.6	1564.4	1526.3	1508.7	1513.6
25°	1169.2	1220.9	1374.5	1546.7	1633.7	1640.1	1598.4	1532.2	1460.1	1427.1	1432.0
27.5°	1199.1	1271.2	1483.3	1662.2	1706.2	1650.5	1560.8	1467.0	1380.0	1345.0	1349.1
30°	1229.1	1328.7	1603.4	1763.3	1739.3	1624.6	1501.4	1396.7	1309.2	1272.5	1276.6
32.5°	1259.4	1395.8	1741.6	1836.3	1733.4	1569.8	1427.5	1317.8	1240.9	1202.3	1207.2
35°	1293.9	1478.3	1872.6	1876.2	1694.0	1489.1	1330.1	1223.6	1156.5	1125.8	1132.5
37.5°	1338.8	1583.0	1988.1	1886.1	1625.1	1370.8	1209.1	1112.1	1056.8	1042.7	1052.8
40°	1394.4	1709.0	2076.4	1870.3	1523.1	1227.2	1076.8	999.3	968.0	971.2	982.1
42.5°	1467.0	1849.9	2138.6	1829.5	1381.3	1079.0	960.7	926.3	941.3	954.0	965.8
45°	1561.2	1996.3	2177.1	1760.1	1220.9	953.5	892.4	900.5	911.8	913.2	922.2
47.5°	1681.7	2144.5	2202.5	1655.5	1057.3	865.1	848.8	850.6	848.4	838.9	846.1
50°	1832.2	2288.6	2225.2	1516.8	918.2	809.9	788.1	781.8	750.5	719.7	723.8
52.5°	2003.6	2420.9	2234.6	1344.6	809.9	763.6	728.3	688.4	630.0	620.4	623.6
55°	2193.9	2543.2	2210.2	1132.9	718.7	704.3	650.8	602.7	596.3	588.2	589.6
57.5°	2421.4	2675.1	2160.3	896.9	625.4	634.9	582.8	588.2	576.9	564.3	561.9
60°	2670.1	2811.6	2072.9	681.6	528.9	548.4	565.1	564.7	561.5	551.0	547.5
62.5°	2894.0	2901.3	1900.7	522.0	444.1	481.2	527.1	526.6	523.9	518.0	515.7
65°	3027.2	2887.7	1613.4	411.0	374.3	426.0	475.4	479.0	479.5	479.0	479.0
67.5°	3003.7	2728.7	1219.0	327.2	316.7	369.8	424.1	429.2	432.8	433.7	434.6
70°	2737.3	2379.2	794.9	261.1	265.6	320.4	375.7	380.7	383.9	387.4	389.3
72.5°	2133.5	1749.3	455.0	211.2	220.7	277.8	327.7	333.5	335.4	342.1	344.9
75°	1300.2	1028.7	245.6	166.4	181.3	237.5	280.0	286.9	290.1	298.2	299.1
77.5°	618.2	445.5	140.0	129.6	146.0	193.9	236.6	244.3	235.6	240.2	236.6
80°	208.9	165.4	88.4	98.8	111.5	151.4	189.4	197.1	179.0	178.1	176.3
82.5°	73.0	67.0	56.2	65.7	72.1	108.3	143.2	153.1	133.2	132.7	126.5
85°	28.6	27.2	31.3	35.8	43.0	66.6	94.3	99.2	82.0	66.2	65.3
87.5°	5.8	6.4	7.7	8.2	13.1	23.1	34.0	41.7	33.1	28.1	25.8
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)