

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: P960438

Luminaire Tested: **NAV-SB1C-760-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960438
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-SB1C-760-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8053.4 lumens
Efficiency: N/A
Efficacy: 148.0 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): 54.4
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



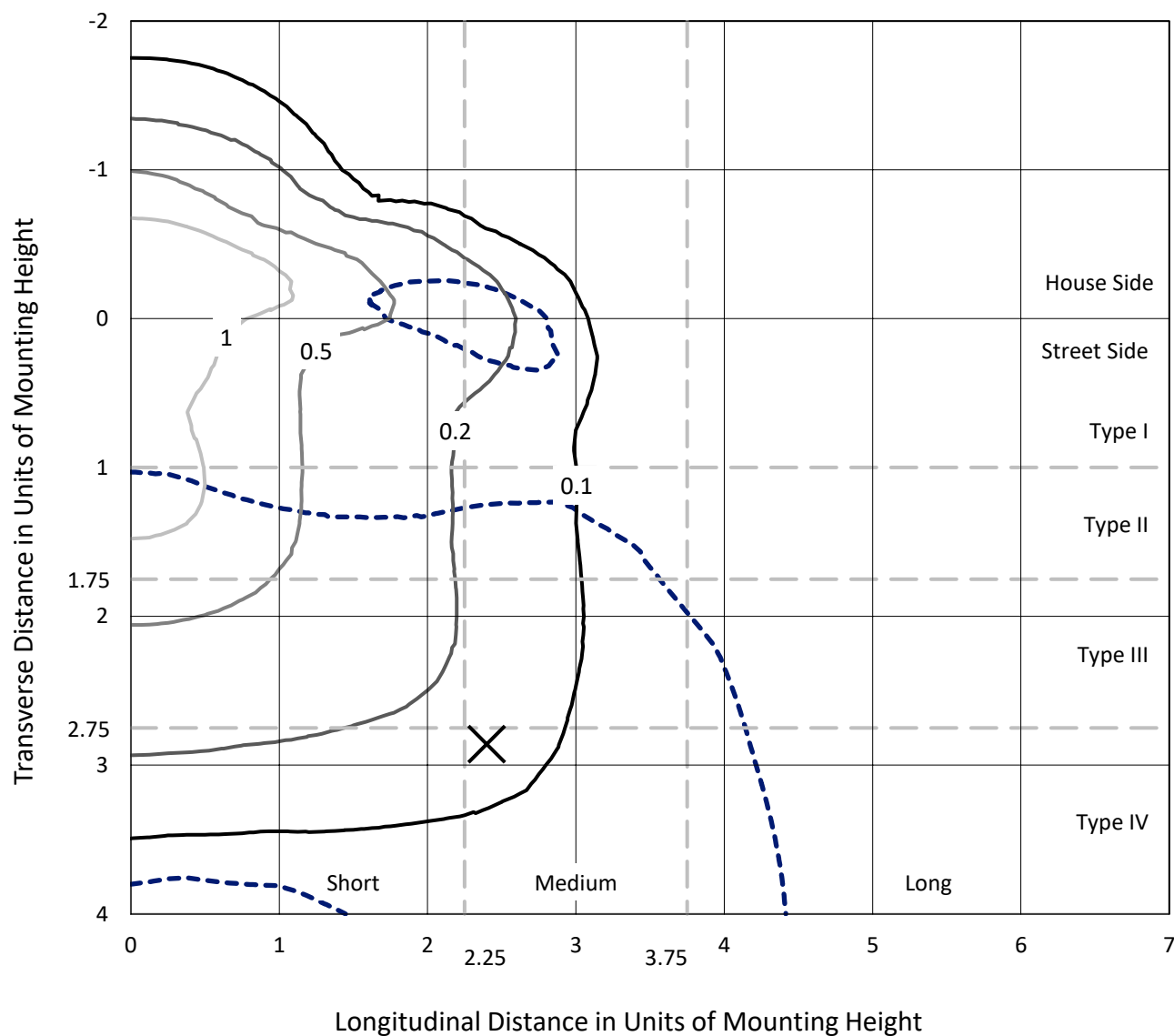
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

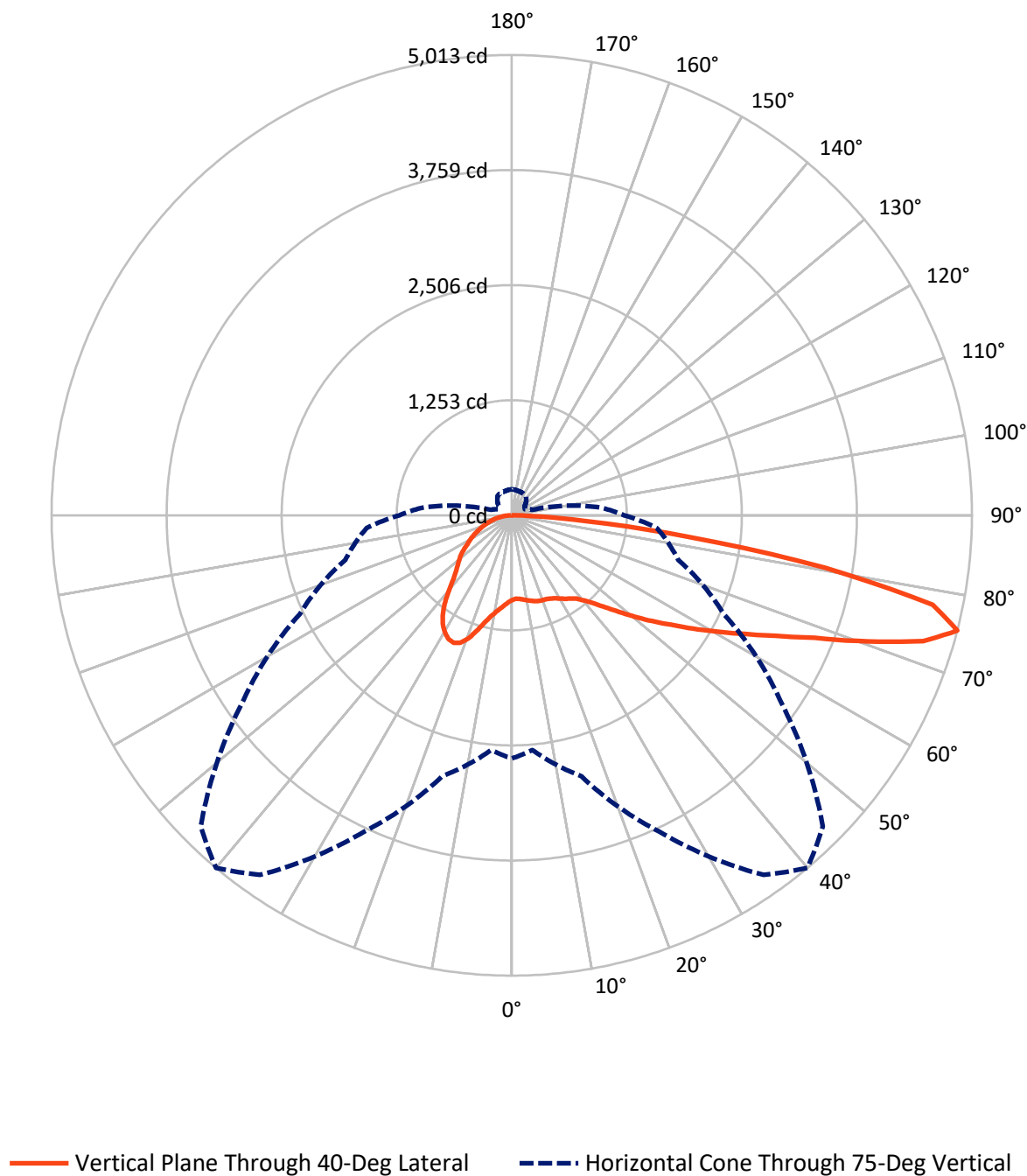
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2495.2	0.0	2495.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5558.2	0.0	5558.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	8053.4	0.0	8053.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	1.1
10°-20°	308.6	3.8
20°-30°	563.5	7.0
30°-40°	799.3	9.9
40°-50°	1079.2	13.4
50°-60°	1451.9	18.0
60°-70°	1842.8	22.9
70°-80°	1672.4	20.8
80°-90°	243.8	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°	8053.4	100.0
0°-180°	8053.4	100.0

Coefficient of Utilization



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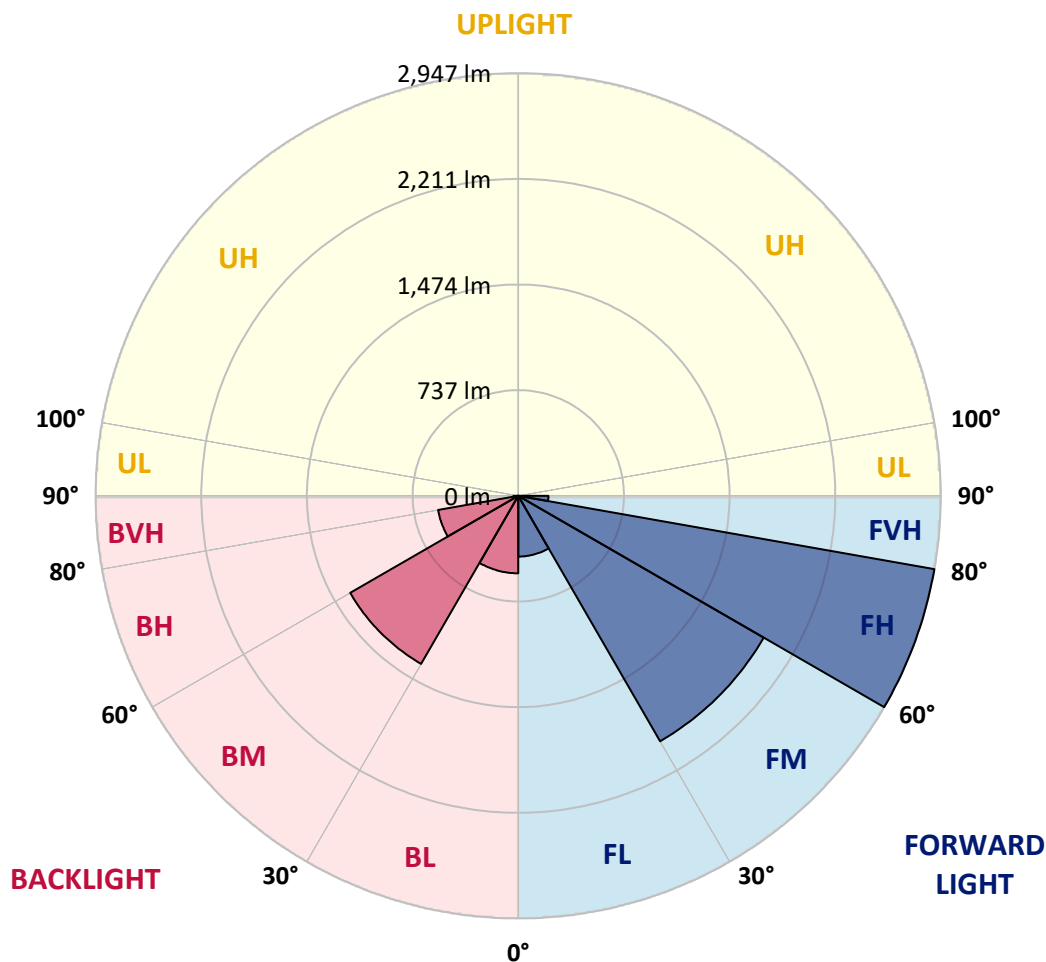
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.6	5.3			
FM	(30°-60°)	1976.9	24.5			
FH	(60°-80°)	2947.4	36.6			G2/5000
FVH	(80°-90°)	210.2	2.6			G2/225
BL	(0°-30°)	540.5	6.7	B2/1000		
BM	(30°-60°)	1353.4	16.8	B2/2500		
BH	(60°-80°)	567.7	7.0	B2/1000		G2/1000
BVH	(80°-90°)	33.6	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°	921.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0
2.5°	906.8	911.9	910.7	909.0	909.0	909.4	909.0	911.9	914.9	917.9	922.6
5°	916.2	921.4	918.8	916.7	914.9	914.5	913.3	912.8	914.5	918.4	924.8
7.5°	934.6	939.7	935.8	932.0	928.6	926.9	925.2	922.6	921.4	923.5	932.4
10°	955.1	960.2	955.5	948.6	943.1	941.0	939.3	936.7	935.0	936.3	946.1
12.5°	975.6	980.7	974.3	964.9	957.7	956.3	954.3	953.4	952.9	952.5	962.4
15°	994.9	999.1	991.0	979.9	972.2	970.1	967.9	969.1	971.3	973.9	985.0
17.5°	1009.7	1014.0	1002.0	987.6	980.3	979.4	978.2	982.5	988.4	994.9	1008.5
20°	1023.5	1027.7	1012.3	992.7	984.1	984.1	984.6	993.5	1002.0	1011.5	1030.2
22.5°	1042.6	1046.1	1027.3	1000.4	988.0	988.8	992.3	1001.2	1011.9	1024.7	1050.7
25°	1071.2	1073.8	1050.7	1014.9	1000.8	1003.4	1006.3	1010.6	1020.9	1035.9	1070.8
27.5°	1117.5	1119.5	1089.2	1040.5	1019.2	1023.5	1027.7	1024.7	1029.4	1042.2	1087.1
30°	1182.3	1183.6	1145.1	1080.7	1050.3	1052.5	1053.3	1041.0	1032.0	1042.2	1098.6
32.5°	1259.2	1258.8	1213.1	1129.3	1085.8	1083.6	1076.4	1052.1	1031.1	1040.1	1108.8
35°	1378.4	1373.7	1314.8	1197.7	1126.0	1112.7	1095.6	1064.5	1035.4	1037.9	1117.9
37.5°	1575.7	1561.2	1479.6	1309.6	1185.7	1152.0	1126.8	1084.6	1044.8	1037.1	1128.5
40°	1798.3	1779.9	1690.2	1463.0	1275.4	1221.2	1180.6	1113.1	1060.2	1041.0	1144.3
42.5°	2062.2	2036.2	1939.6	1643.7	1389.1	1310.5	1249.4	1149.4	1082.8	1053.3	1165.6
45°	2386.4	2351.9	2215.1	1847.4	1532.2	1427.5	1345.9	1204.6	1117.5	1077.3	1197.7
47.5°	2714.1	2722.6	2528.3	2080.6	1703.9	1571.8	1466.8	1287.4	1167.8	1115.7	1249.4
50°	3062.2	3068.1	2839.7	2339.0	1898.6	1735.0	1602.7	1380.1	1237.9	1170.3	1326.7
52.5°	3333.8	3334.7	3122.5	2609.4	2101.6	1914.5	1749.2	1486.0	1319.0	1243.0	1429.7
55°	3503.9	3501.7	3320.6	2865.3	2334.7	2102.8	1911.4	1606.5	1418.1	1328.4	1559.0
57.5°	3627.3	3620.9	3457.3	3085.2	2583.4	2325.3	2095.1	1743.2	1535.1	1430.1	1729.5
60°	3674.3	3670.4	3550.0	3275.3	2844.8	2571.4	2307.0	1896.0	1668.0	1550.1	1948.6
62.5°	3692.3	3699.5	3641.0	3459.5	3124.5	2844.0	2539.7	2078.9	1817.5	1685.9	2179.7
65°	3755.4	3768.7	3756.7	3700.4	3440.6	3162.9	2848.6	2296.3	1980.7	1831.6	2421.0
67.5°	3880.5	3893.9	3899.0	3988.7	3826.7	3560.6	3233.9	2567.1	2171.6	1982.8	2602.6
70°	3877.6	3873.8	3964.3	4218.1	4310.3	4111.3	3753.3	2900.3	2399.2	2108.4	2625.6
72.5°	3529.5	3498.7	3712.8	4215.5	4712.6	4686.2	4387.6	3330.0	2595.7	2123.8	2278.4
75°	2647.9	2565.9	2943.9	3799.0	4779.7	5012.6	4790.8	3596.5	2549.2	1876.5	1585.6
77.5°	1132.3	1049.9	1495.5	2812.3	4277.8	4685.8	4420.9	3137.8	2034.9	1240.9	778.7
80°	296.4	296.0	451.9	1275.0	2909.3	3460.3	3035.7	2026.3	1162.7	443.4	214.8
82.5°	122.6	119.6	166.2	495.9	1421.6	1941.8	1584.6	903.8	419.8	120.0	71.3
85°	45.7	45.3	80.8	171.3	501.4	800.9	579.6	231.0	104.7	58.5	32.1
87.5°	12.8	12.4	17.5	59.3	122.2	185.4	99.1	38.0	29.5	23.1	9.4
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°	921.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0	921.0
2.5°	923.9	926.1	929.9	932.9	936.7	941.0	947.0	950.8	954.7	957.2	955.5
5°	927.7	932.4	942.3	952.1	963.6	974.3	986.7	995.7	1003.0	1005.1	1005.9
7.5°	936.3	944.0	960.6	977.3	995.7	1013.2	1031.1	1046.5	1058.9	1063.5	1064.1
10°	951.2	961.4	985.0	1008.5	1032.8	1059.7	1082.8	1105.1	1122.6	1129.8	1130.3
12.5°	970.1	982.9	1013.6	1046.1	1079.8	1116.9	1146.9	1174.2	1196.0	1205.8	1205.8
15°	994.4	1011.1	1050.3	1093.9	1143.5	1195.1	1233.2	1263.5	1287.8	1299.8	1299.0
17.5°	1020.9	1043.0	1092.6	1158.5	1229.3	1297.2	1341.6	1363.9	1389.1	1400.6	1400.1
20°	1046.5	1073.8	1144.7	1240.5	1334.9	1407.0	1442.9	1448.8	1450.6	1451.8	1455.3
22.5°	1073.0	1109.8	1210.1	1343.8	1445.0	1495.0	1500.1	1474.5	1438.6	1422.0	1426.7
25°	1102.0	1150.8	1295.5	1457.9	1539.9	1545.8	1506.5	1444.1	1376.3	1345.1	1349.8
27.5°	1130.3	1198.1	1398.0	1566.7	1608.2	1555.6	1471.1	1382.6	1300.6	1267.7	1271.6
30°	1158.5	1252.3	1511.3	1662.0	1639.4	1531.4	1415.1	1316.4	1234.0	1199.5	1203.2
32.5°	1187.1	1315.6	1641.5	1730.8	1633.8	1479.6	1345.5	1242.1	1169.5	1133.2	1138.0
35°	1219.4	1393.4	1764.9	1768.3	1596.6	1403.6	1253.7	1153.3	1090.1	1061.0	1067.4
37.5°	1261.8	1492.0	1873.9	1777.8	1531.8	1292.1	1139.6	1048.2	996.1	982.9	992.3
40°	1314.4	1610.8	1957.1	1762.8	1435.6	1156.7	1014.9	941.9	912.4	915.3	925.6
42.5°	1382.6	1743.6	2015.7	1724.4	1302.0	1017.0	905.6	873.1	887.1	899.1	910.2
45°	1471.5	1881.6	2051.9	1659.1	1150.8	898.7	841.0	848.7	859.5	860.7	869.2
47.5°	1585.2	2021.2	2075.9	1560.4	996.5	815.4	800.0	801.8	799.6	790.7	797.4
50°	1726.9	2157.1	2097.3	1429.7	865.4	763.3	742.8	736.9	707.4	678.3	682.1
52.5°	1888.4	2281.8	2106.3	1267.3	763.3	719.8	686.4	648.8	593.7	584.8	587.7
55°	2067.8	2397.2	2083.2	1067.8	677.4	663.8	613.4	568.1	562.1	554.4	555.8
57.5°	2282.3	2521.4	2036.2	845.3	589.5	598.4	549.3	554.4	543.8	531.8	529.6
60°	2516.7	2650.0	1953.8	642.5	498.5	516.8	532.7	532.2	529.2	519.4	516.0
62.5°	2727.7	2734.6	1791.4	492.1	418.6	453.7	496.8	496.3	493.7	488.2	486.1
65°	2853.3	2721.8	1520.6	387.4	352.8	401.5	448.0	451.5	451.9	451.5	451.5
67.5°	2831.2	2571.8	1149.0	308.4	298.6	348.5	399.9	404.5	408.0	408.8	409.6
70°	2579.9	2242.5	749.2	246.0	250.3	302.0	354.1	358.7	361.8	365.2	367.0
72.5°	2010.9	1648.8	428.9	199.1	208.0	261.9	308.8	314.4	316.1	322.5	325.0
75°	1225.5	969.6	231.5	156.7	170.9	223.9	263.9	270.4	273.4	281.1	281.9
77.5°	582.6	419.8	132.0	122.2	137.6	182.9	222.9	230.2	222.1	226.4	222.9
80°	196.9	155.9	83.3	93.1	105.1	142.7	178.6	185.8	168.7	167.9	166.2
82.5°	68.8	63.2	53.0	61.9	68.0	102.1	135.0	144.4	125.6	125.2	119.2
85°	27.0	25.6	29.5	33.7	40.6	62.8	88.9	93.6	77.3	62.3	61.5
87.5°	5.5	5.9	7.3	7.7	12.4	21.8	32.1	39.3	31.2	26.4	24.4
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)