

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: P960798

Luminaire Tested: **NAV-SB1D-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8602.8 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

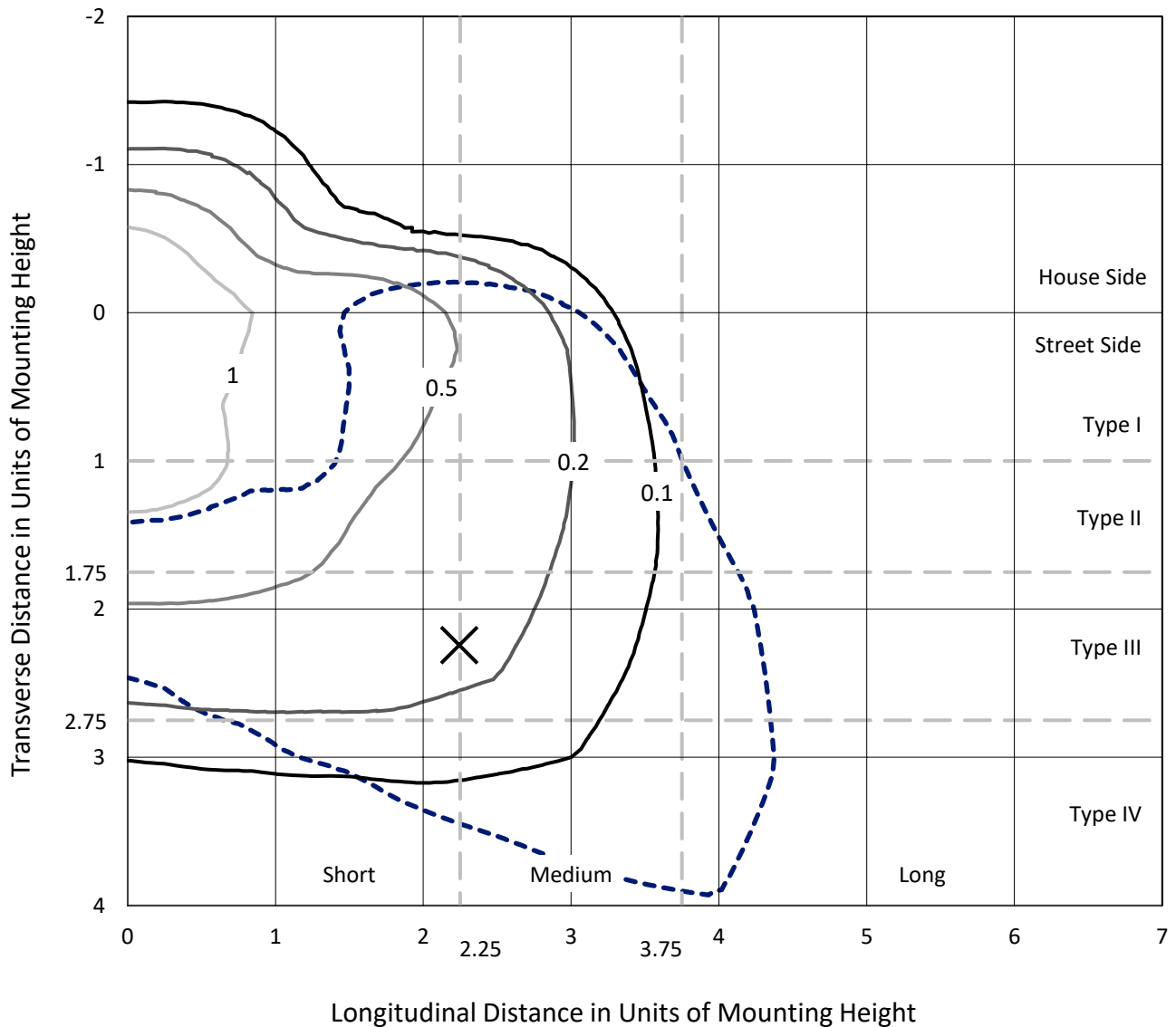
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

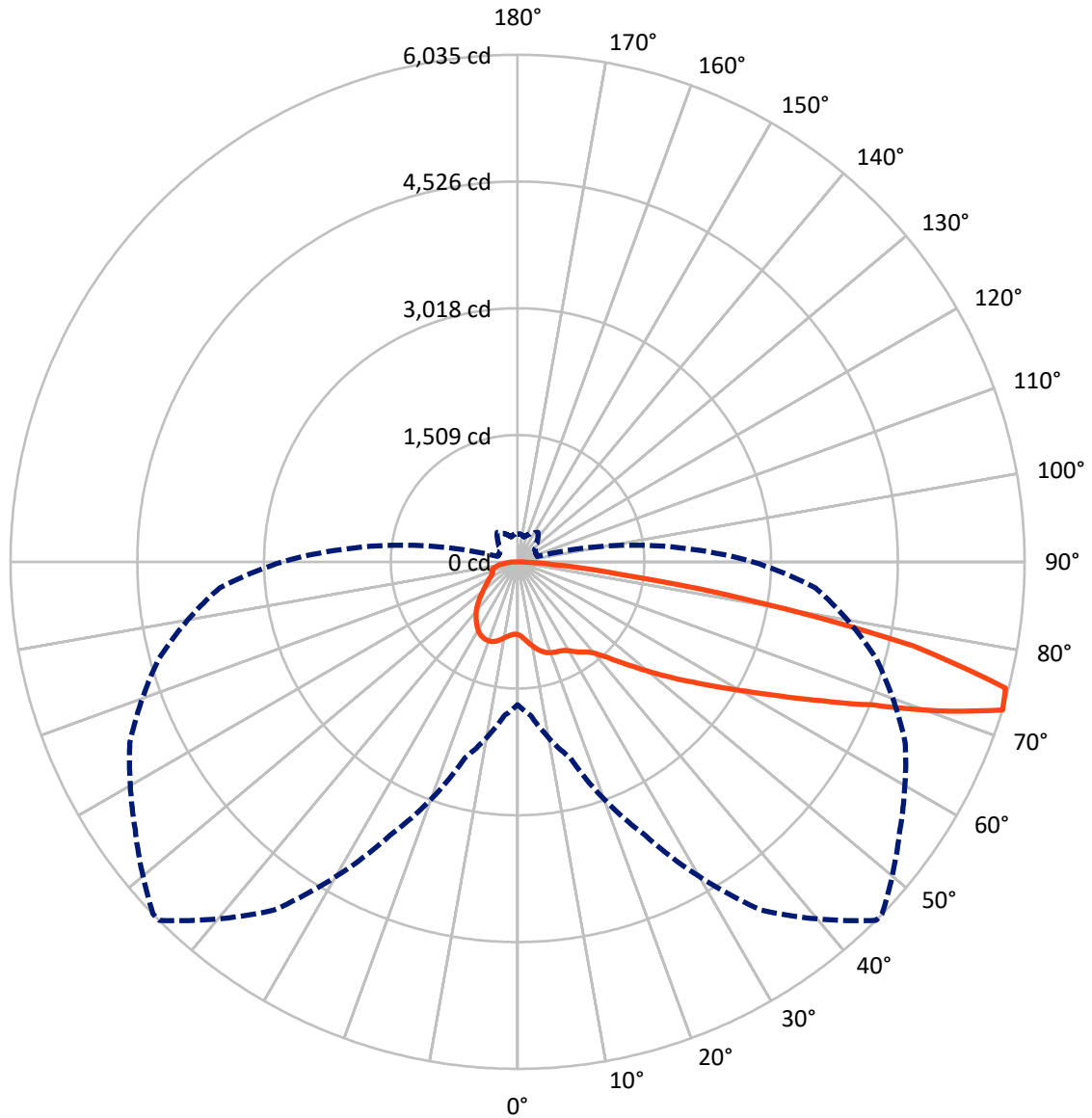
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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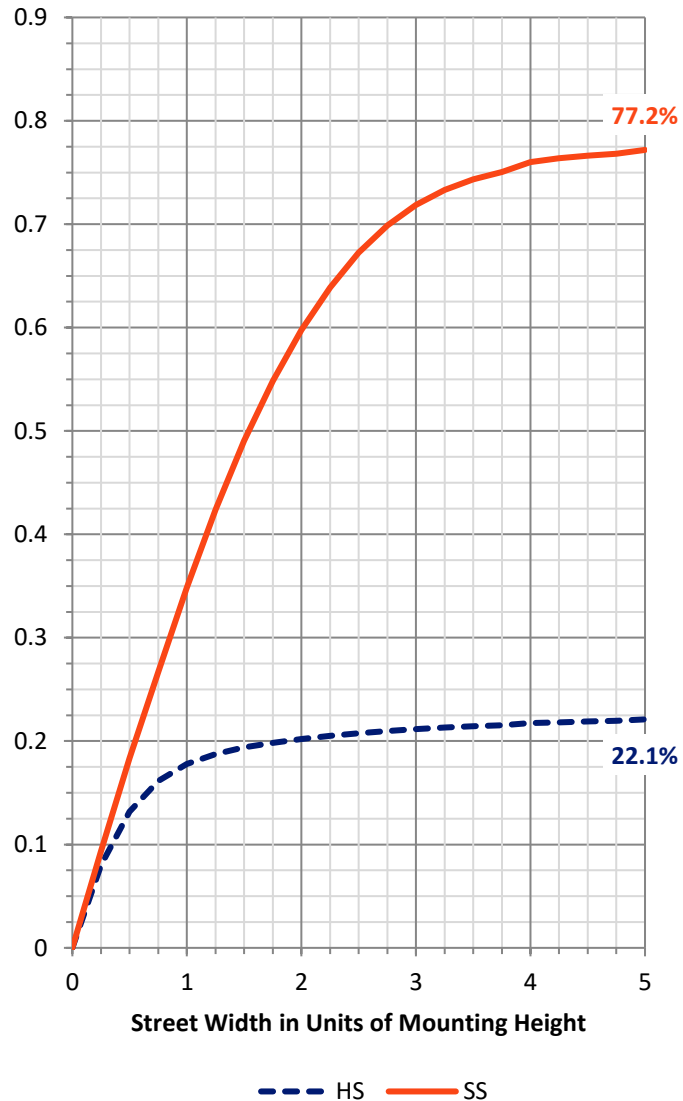
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1944.8	0.0	1944.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6658.0	0.0	6658.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	8602.8	0.0	8602.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.0
10°-20°	294.5	3.4
20°-30°	512.3	6.0
30°-40°	734.4	8.5
40°-50°	1034.1	12.0
50°-60°	1584.0	18.4
60°-70°	2294.6	26.7
70°-80°	1832.4	21.3
80°-90°	228.2	2.7
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°	8602.8	100.0
0°-180°	8602.8	100.0

Coefficient of Utilization

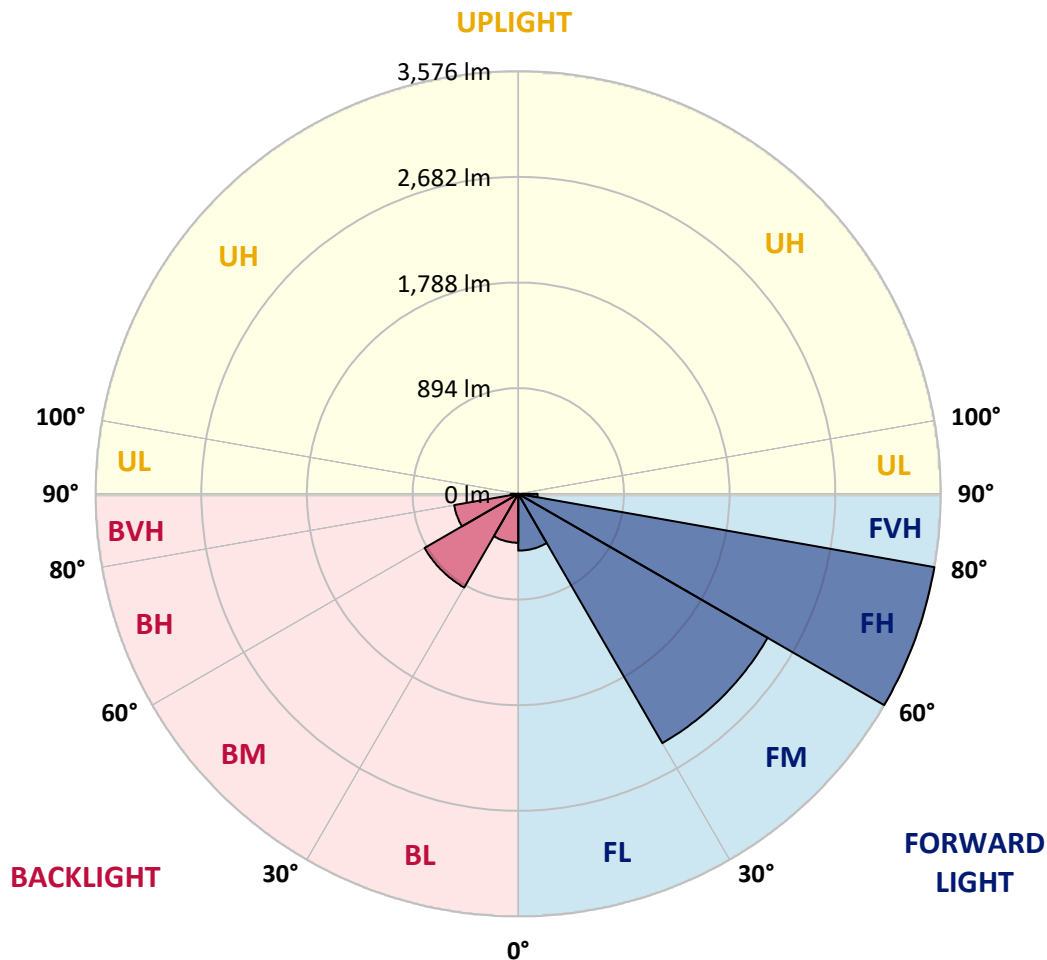


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	481.1	5.6			
FM (30°-60°)	2436.8	28.3			
FH (60°-80°)	3576.4	41.6			G2/5000
FVH (80°-90°)	163.7	1.9			G2/225
BL (0°-30°)	414.1	4.8	B1/500		
BM (30°-60°)	915.7	10.6	B1/1000		
BH (60°-80°)	550.5	6.4	B2/1000		G2/1000
BVH (80°-90°)	64.5	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9
2.5°	901.9	907.7	902.3	897.3	895.0	889.2	888.7	885.1	882.8	876.5	874.6
5°	964.8	972.5	963.5	953.6	944.4	930.0	928.1	917.7	905.9	892.4	884.6
7.5°	1036.0	1042.8	1032.4	1017.4	1001.5	977.5	977.0	958.1	939.4	916.4	903.2
10°	1098.1	1107.1	1093.1	1072.7	1052.8	1025.6	1022.4	1000.6	977.0	947.2	927.2
12.5°	1152.9	1159.3	1145.6	1120.7	1097.7	1070.4	1066.3	1042.3	1016.1	982.1	956.6
15°	1196.4	1204.6	1186.4	1159.7	1135.3	1108.5	1104.8	1083.1	1056.9	1021.0	988.4
17.5°	1225.0	1231.7	1213.2	1183.3	1159.7	1137.5	1134.8	1116.6	1093.6	1057.3	1022.4
20°	1235.8	1243.1	1223.6	1193.2	1171.5	1154.3	1152.9	1139.8	1123.9	1090.8	1055.4
22.5°	1246.7	1253.5	1228.2	1196.4	1177.4	1166.6	1166.0	1157.4	1151.1	1123.9	1089.5
25°	1290.7	1292.5	1258.5	1212.8	1185.5	1176.0	1175.6	1175.2	1177.8	1156.5	1126.2
27.5°	1328.7	1328.3	1299.3	1256.2	1214.1	1194.1	1193.7	1198.2	1206.8	1189.2	1164.2
30°	1384.5	1379.5	1345.1	1300.2	1261.7	1230.8	1228.2	1224.1	1230.8	1216.8	1202.3
32.5°	1502.8	1486.9	1431.2	1351.4	1301.1	1277.6	1273.9	1248.6	1251.2	1242.6	1235.4
35°	1672.3	1651.4	1577.1	1448.4	1350.0	1316.5	1314.7	1282.5	1277.0	1269.4	1272.1
37.5°	1873.9	1848.1	1761.6	1588.9	1434.4	1361.8	1359.1	1330.1	1307.9	1299.7	1315.2
40°	2076.5	2043.8	1972.3	1760.2	1558.5	1437.6	1429.0	1385.0	1359.6	1345.9	1378.6
42.5°	2273.2	2246.0	2184.8	1952.3	1711.6	1548.1	1529.1	1453.9	1434.8	1422.1	1481.0
45°	2447.2	2422.8	2377.9	2157.6	1891.1	1698.5	1680.0	1557.2	1551.2	1551.2	1636.5
47.5°	2588.6	2583.2	2535.6	2367.0	2102.8	1869.9	1837.7	1700.8	1716.7	1741.2	1857.2
50°	2745.5	2730.5	2679.7	2573.2	2351.6	2066.1	2039.9	1877.1	1936.4	2003.6	2176.2
52.5°	2889.6	2897.7	2841.1	2788.0	2632.6	2284.9	2238.8	2085.2	2213.4	2324.4	2550.1
55°	3037.7	3038.2	3022.3	3015.0	2927.2	2527.0	2476.2	2335.3	2539.2	2677.0	2986.0
57.5°	3176.9	3177.8	3201.3	3265.2	3268.8	2806.1	2748.6	2642.6	2901.4	3041.8	3435.6
60°	3301.0	3307.4	3371.7	3521.3	3569.4	3126.1	3071.7	3005.5	3275.7	3417.0	3908.3
62.5°	3342.7	3365.8	3509.1	3721.6	3866.2	3518.5	3465.1	3425.7	3669.0	3800.5	4303.5
65°	3272.0	3325.1	3602.0	3887.0	4171.6	3984.9	3931.9	3888.8	4077.8	4201.5	4628.0
67.5°	3098.5	3166.8	3596.5	4060.5	4542.3	4546.0	4496.6	4395.5	4516.0	4563.6	4733.6
70°	2641.2	2743.6	3279.7	4125.4	4967.9	5313.2	5265.6	5005.5	4953.3	4723.1	4436.3
72.5°	1701.7	1839.5	2415.0	3592.0	5062.6	6035.1	6032.4	5556.1	5091.6	4413.1	3558.0
75°	620.8	705.2	1122.1	2254.6	4249.5	5998.4	6016.1	5461.8	4647.9	3408.8	2216.6
77.5°	226.1	247.4	366.1	866.5	2613.5	4812.9	4849.6	4366.5	3308.3	1710.8	878.3
80°	118.7	130.5	187.6	336.3	1119.8	2858.3	2915.8	2595.0	1554.9	515.3	263.3
82.5°	65.7	71.1	105.2	182.7	504.4	1222.2	1256.6	1025.1	547.0	218.4	108.8
85°	35.4	37.6	49.4	99.7	246.5	423.7	433.3	306.4	218.0	128.2	52.6
87.5°	10.5	12.7	16.3	31.7	96.6	95.1	97.5	60.7	86.1	64.8	17.2
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°	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9	867.9
2.5°	872.0	870.5	865.6	863.4	860.6	860.2	862.4	862.8	863.4	863.8	865.6
5°	880.1	875.6	871.0	868.3	869.2	869.7	874.2	877.4	879.7	881.5	882.3
7.5°	896.0	892.4	884.6	884.2	885.5	889.6	895.5	902.7	906.8	910.0	910.9
10°	919.5	912.8	903.6	905.0	907.7	913.6	925.9	931.7	938.6	944.4	943.1
12.5°	943.5	937.7	927.2	928.1	932.6	943.1	954.9	962.2	966.7	971.2	973.0
15°	974.8	964.4	953.0	953.0	961.2	972.5	978.0	983.9	986.6	991.6	993.4
17.5°	1007.0	993.4	978.5	977.5	987.5	992.9	996.1	997.0	997.9	1003.4	1005.2
20°	1039.1	1024.2	1002.9	1001.1	1003.4	1002.4	1002.0	1001.1	1002.4	1009.2	1012.0
22.5°	1070.9	1053.7	1024.2	1016.1	1009.7	1001.1	1000.6	1000.2	1001.1	1007.9	1012.4
25°	1108.0	1087.2	1047.8	1023.3	1002.0	990.3	991.6	992.0	992.9	998.4	1005.6
27.5°	1148.4	1125.2	1069.5	1021.0	982.6	974.4	972.1	973.4	976.6	985.2	993.8
30°	1188.7	1161.5	1089.5	1012.0	958.1	946.7	939.4	942.6	952.6	961.2	970.8
32.5°	1225.4	1198.2	1105.4	992.0	926.8	909.1	899.5	903.6	913.6	916.8	928.1
35°	1268.4	1237.7	1112.1	960.3	892.8	865.6	852.9	847.1	852.0	848.8	858.7
37.5°	1316.5	1284.3	1111.2	918.6	852.9	821.6	803.9	781.8	771.3	760.4	767.2
40°	1387.6	1341.4	1100.3	868.3	803.5	775.0	743.2	705.6	682.0	660.7	662.2
42.5°	1484.6	1420.8	1080.5	813.0	747.7	721.0	677.9	634.0	596.9	561.5	558.3
45°	1629.2	1524.5	1055.4	754.1	687.5	661.2	614.5	565.1	523.0	477.6	472.2
47.5°	1837.7	1664.1	1031.9	687.1	624.0	600.0	557.9	512.1	462.3	418.3	413.3
50°	2124.1	1864.4	1010.1	621.8	561.5	543.4	509.8	463.2	412.9	377.5	375.3
52.5°	2488.5	2136.8	1001.1	558.8	503.1	496.2	469.6	426.0	378.4	348.5	346.2
55°	2906.8	2462.7	1001.1	498.5	451.8	454.1	435.5	395.1	353.9	327.2	324.5
57.5°	3333.7	2792.5	983.0	442.8	408.4	417.8	406.1	370.7	333.5	305.9	301.3
60°	3727.0	3069.0	909.6	392.0	369.8	384.8	377.1	346.7	301.3	278.3	274.6
62.5°	4029.3	3224.9	768.1	351.7	338.0	355.3	351.3	315.0	295.5	286.0	282.8
65°	4180.7	3199.5	587.3	315.9	311.3	338.0	329.4	328.1	312.7	301.9	298.2
67.5°	4087.8	2981.1	426.0	289.6	295.9	322.3	355.3	360.7	332.2	310.9	307.3
70°	3680.4	2585.9	317.2	264.7	276.4	322.7	405.2	377.5	325.8	300.9	296.8
72.5°	2799.8	1928.3	246.1	238.4	251.0	324.9	427.3	369.8	307.7	332.6	329.9
75°	1601.2	1058.6	197.6	206.2	219.4	303.6	416.0	349.8	293.7	305.4	305.4
77.5°	610.5	406.9	163.2	174.5	176.3	265.1	397.9	348.5	279.6	272.9	248.8
80°	211.7	159.1	135.1	138.7	136.4	235.6	381.6	303.2	228.9	204.8	198.0
82.5°	86.5	79.3	106.9	102.4	97.0	183.1	308.2	247.8	187.2	165.4	163.6
85°	37.6	50.3	70.7	62.1	56.2	126.9	247.0	209.8	158.2	136.4	135.9
87.5°	7.7	19.1	29.9	28.1	29.0	84.8	175.4	149.1	111.9	83.8	65.7
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)