

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: P959191

Luminaire Tested: **NAV-SB1A-722-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-722-U-AFL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

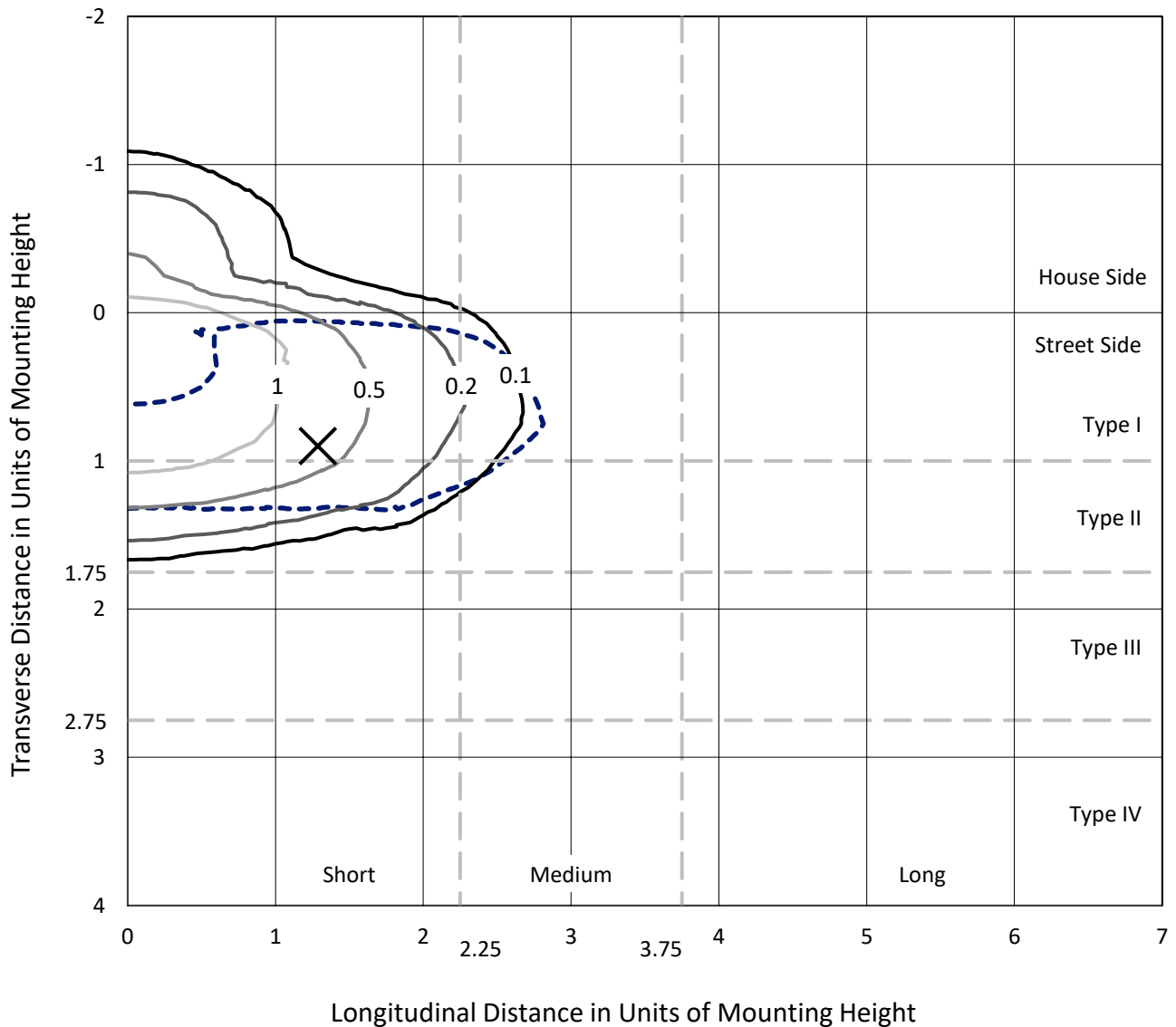
Lumens per Lamp: N/A  
Luminaire Lumens: 3864.2 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): 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

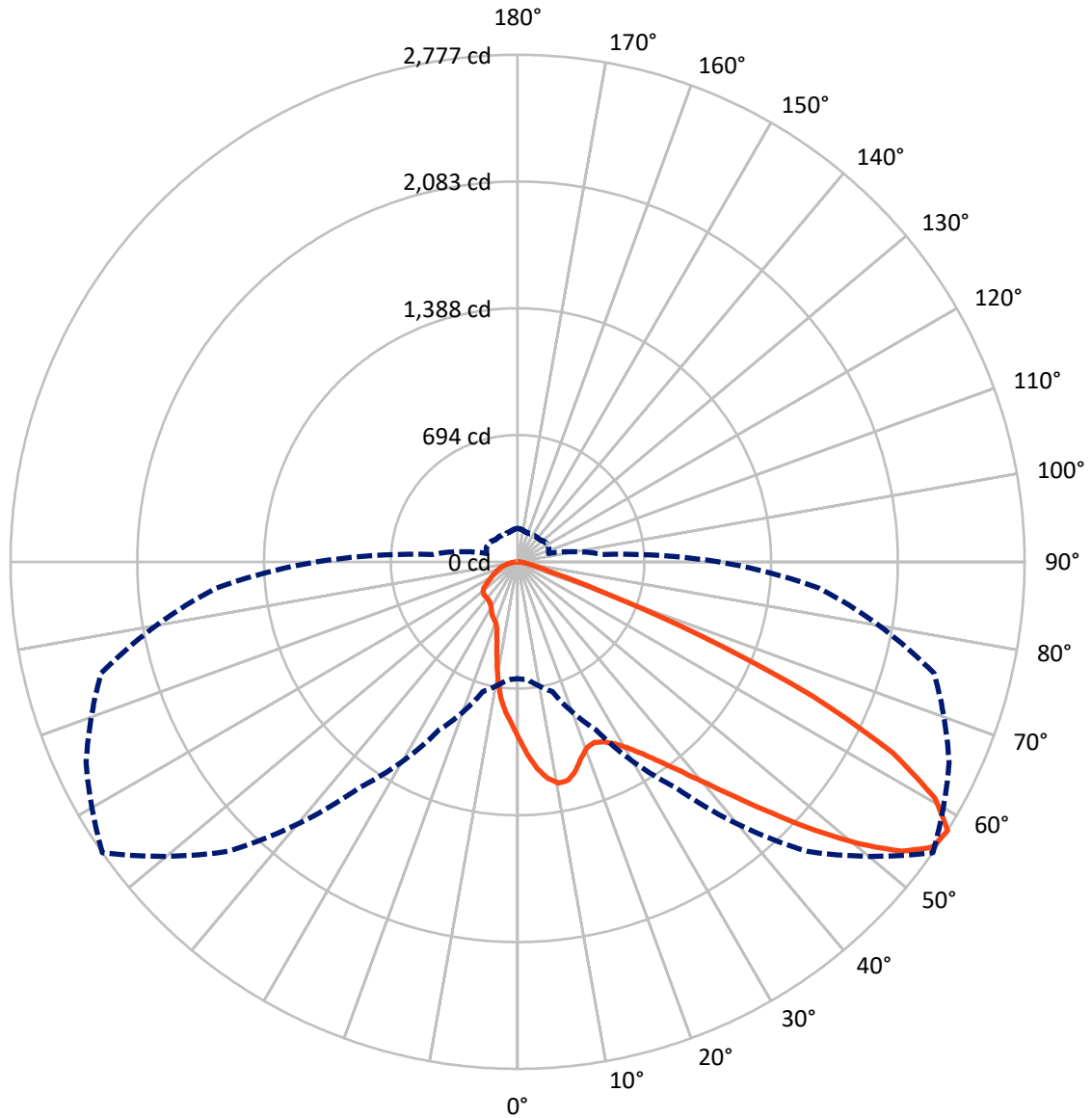
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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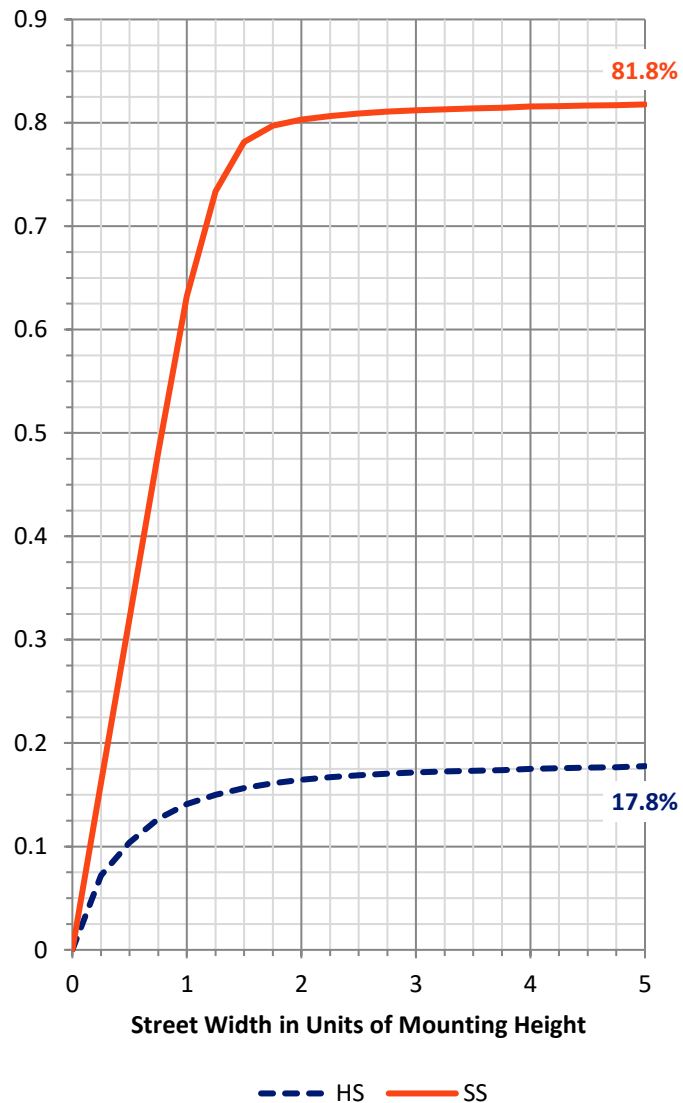
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	699.2	0.0	699.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3165.0	0.0	3165.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	3864.2	0.0	3864.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.8	2.3
10°-20°	226.8	5.9
20°-30°	361.9	9.4
30°-40°	572.9	14.8
40°-50°	876.9	22.7
50°-60°	939.3	24.3
60°-70°	590.9	15.3
70°-80°	174.7	4.5
80°-90°	30.9	0.8
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°	3864.2	100.0
0°-180°	3864.2	100.0

**Coefficient of Utilization**

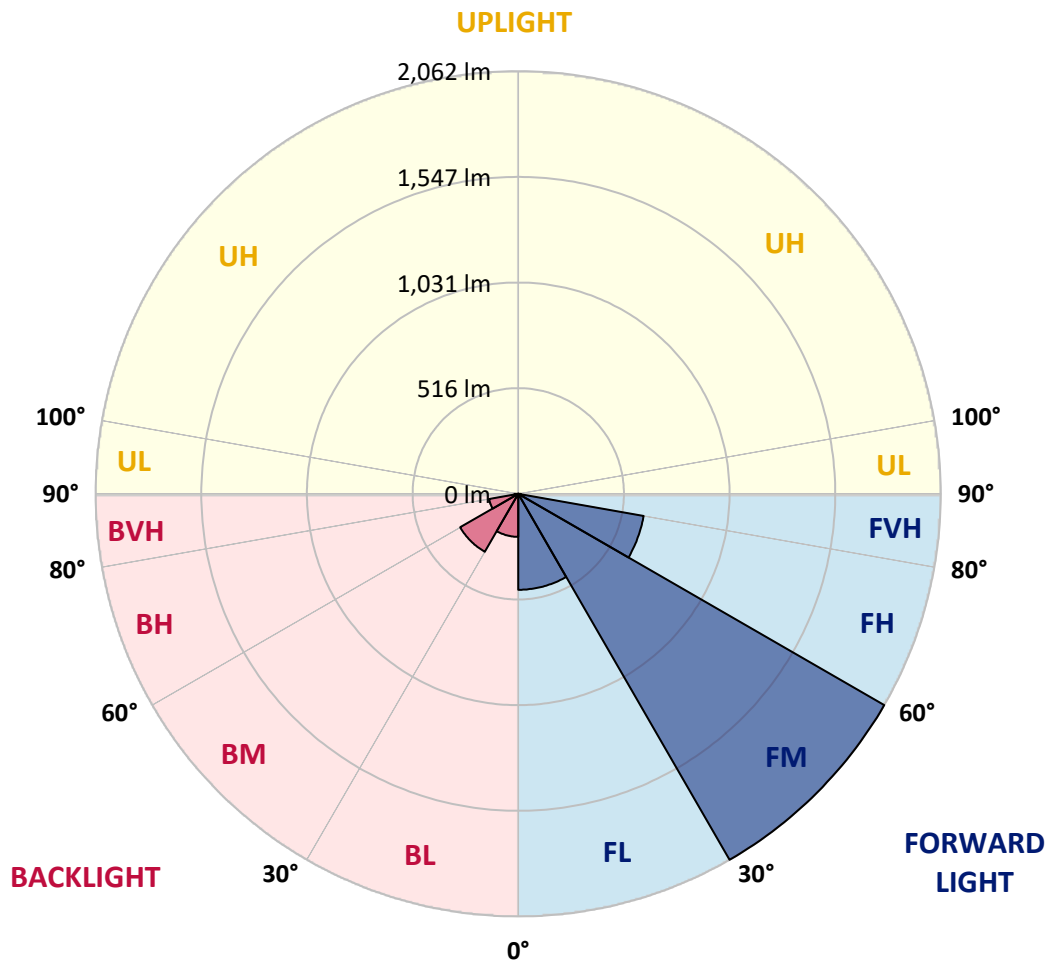


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.3	12.1			
FM (30°-60°)	2062.4	53.4			
FH (60°-80°)	621.3	16.1			G0/660
FVH (80°-90°)	13.1	0.3			G1/100
BL (0°-30°)	210.2	5.4	B1/500		
BM (30°-60°)	326.8	8.5	B1/1000		
BH (60°-80°)	144.4	3.7	B1/500		G1/500
BVH (80°-90°)	17.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2
2.5°	1110.9	1110.1	1114.5	1099.5	1089.3	1075.5	1057.4	1034.2	1009.2	982.9	971.5
5°	1210.9	1204.0	1208.6	1197.4	1186.2	1165.4	1138.5	1100.7	1054.5	1002.0	974.1
7.5°	1195.1	1190.4	1202.2	1212.2	1220.6	1218.0	1198.2	1158.7	1099.1	1022.7	982.3
10°	1067.9	1062.5	1079.1	1113.7	1164.4	1208.6	1232.6	1208.0	1144.6	1045.6	990.3
12.5°	955.7	953.0	964.0	992.0	1048.4	1133.0	1228.2	1251.1	1192.0	1072.6	1001.0
15°	907.7	904.6	911.5	925.7	961.7	1040.6	1188.2	1280.7	1238.5	1103.7	1018.2
17.5°	897.2	893.6	896.6	903.9	927.1	987.3	1127.9	1295.3	1287.1	1138.5	1032.6
20°	916.8	913.7	914.1	913.7	929.9	977.6	1085.9	1289.7	1329.4	1170.4	1046.5
22.5°	964.0	959.1	959.3	948.6	957.5	994.5	1074.9	1274.7	1367.1	1198.4	1057.2
25°	1041.2	1032.2	1034.0	1007.0	1004.6	1032.0	1092.1	1263.1	1404.8	1220.8	1059.1
27.5°	1146.7	1136.4	1131.1	1090.9	1071.7	1085.3	1127.1	1267.1	1440.3	1240.1	1054.1
30°	1278.5	1266.1	1255.1	1198.2	1163.4	1158.5	1181.4	1293.4	1482.3	1260.5	1045.6
32.5°	1440.1	1425.7	1405.8	1330.2	1281.2	1255.1	1251.7	1340.4	1531.4	1286.5	1041.2
35°	1632.5	1613.7	1585.4	1487.7	1425.7	1372.2	1344.4	1408.1	1598.7	1325.6	1046.1
37.5°	1830.6	1809.4	1783.5	1667.3	1591.1	1512.2	1457.4	1500.0	1688.4	1378.7	1059.3
40°	2013.4	1989.6	1965.4	1862.0	1780.3	1685.2	1595.9	1616.3	1798.1	1442.3	1081.7
42.5°	2121.3	2103.7	2094.5	2038.6	1975.5	1879.0	1768.1	1754.1	1921.4	1515.4	1107.3
45°	2116.5	2109.3	2137.6	2160.8	2145.8	2092.3	1969.8	1906.5	2045.0	1578.7	1130.9
47.5°	2003.5	2008.2	2071.5	2201.8	2259.1	2287.1	2199.6	2056.1	2152.5	1626.1	1141.4
50°	1695.8	1699.8	1846.4	2127.3	2288.3	2446.0	2427.5	2202.2	2235.7	1655.1	1139.1
52.5°	1452.3	1454.9	1517.8	1906.4	2192.0	2525.8	2632.9	2339.9	2296.7	1663.1	1125.7
55°	1093.9	1102.9	1173.4	1495.7	1941.6	2462.5	2758.0	2481.6	2335.3	1663.9	1111.7
57.5°	639.1	648.8	735.9	1015.2	1509.0	2241.8	2776.9	2607.5	2361.4	1657.4	1103.3
60°	313.0	317.2	355.2	533.6	930.5	1816.4	2624.3	2668.5	2376.0	1654.0	1102.9
62.5°	210.9	210.3	212.0	263.3	458.5	1167.1	2306.2	2561.8	2368.2	1641.0	1098.9
65°	181.4	179.2	173.2	184.8	237.5	533.8	1781.9	2243.3	2308.9	1608.5	1071.5
67.5°	156.8	157.0	157.2	153.6	169.6	246.3	1089.0	1767.1	2095.9	1454.3	966.1
70°	129.9	131.6	132.4	132.4	138.3	161.6	464.8	1211.1	1653.2	1140.2	778.1
72.5°	118.3	114.5	114.9	112.9	112.9	123.1	187.2	686.5	1041.6	641.4	474.9
75°	96.5	98.9	99.3	97.9	93.3	93.9	111.1	288.0	445.7	266.1	234.7
77.5°	83.3	83.3	84.0	83.1	79.5	70.3	74.1	111.6	151.6	109.1	117.3
80°	66.9	66.7	70.1	72.2	66.5	52.0	47.4	61.7	67.3	48.0	60.9
82.5°	32.6	34.5	48.2	54.9	50.5	37.5	29.0	38.3	36.0	21.2	27.4
85°	19.0	17.9	21.5	30.5	29.0	20.8	13.9	20.0	18.8	10.8	11.0
87.5°	5.9	5.6	4.4	10.4	8.4	5.8	3.8	5.8	5.2	2.4	2.4
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2
2.5°	957.2	933.7	910.3	889.0	876.0	867.6	859.2	849.8	846.2	840.8
5°	947.7	902.1	861.6	826.7	794.9	769.9	744.8	724.4	715.1	721.4
7.5°	942.1	876.2	813.6	749.5	687.8	638.5	595.5	565.3	551.8	555.1
10°	937.1	846.8	751.5	650.3	561.5	500.4	456.4	433.5	424.9	426.7
12.5°	932.5	813.8	676.6	543.4	449.1	408.7	396.2	396.4	397.9	399.1
15°	931.7	774.1	592.9	449.9	388.4	385.7	399.3	408.0	412.6	413.9
17.5°	930.5	726.5	507.6	386.1	373.5	391.1	403.7	409.3	412.9	413.1
20°	925.7	666.2	428.9	355.8	370.3	385.5	393.3	397.7	400.8	401.7
22.5°	910.9	599.1	367.6	342.1	357.6	369.7	378.9	384.0	385.7	386.9
25°	884.4	524.0	325.2	329.2	339.8	355.2	362.5	363.6	363.0	364.8
27.5°	849.6	443.5	298.9	311.6	325.2	338.4	342.3	341.8	340.6	342.6
30°	807.6	371.2	282.1	291.8	310.5	322.5	326.1	324.6	322.3	324.4
32.5°	763.3	312.0	268.2	278.1	298.3	310.1	313.6	312.2	310.5	312.2
35°	721.9	270.7	255.5	268.9	288.6	300.2	304.8	305.0	305.0	307.2
37.5°	684.0	246.5	244.9	263.1	282.1	292.4	299.1	299.4	290.9	291.4
40°	648.8	236.4	240.2	259.3	275.7	285.7	286.1	263.7	247.9	247.5
42.5°	620.0	234.3	241.5	258.9	271.1	271.5	243.3	225.9	221.5	221.7
45°	593.1	233.7	244.7	258.9	264.2	234.5	215.6	210.9	211.4	213.0
47.5°	562.9	231.3	245.3	255.3	244.7	208.6	203.0	201.0	200.2	200.6
50°	529.9	222.7	237.7	248.2	211.2	197.4	190.3	189.7	190.8	191.4
52.5°	495.2	208.8	224.8	235.1	195.8	187.6	179.8	181.2	185.6	187.0
55°	472.4	192.4	207.6	209.2	185.0	178.4	171.8	175.0	183.2	185.7
57.5°	466.5	175.0	188.0	186.1	171.2	170.4	166.4	169.2	179.6	183.4
60°	464.6	159.4	168.8	167.4	157.8	161.6	160.6	162.1	165.6	166.8
62.5°	450.7	147.0	151.6	149.6	145.9	152.4	154.8	151.8	154.6	156.0
65°	415.1	137.0	134.9	133.5	135.0	141.0	145.9	139.8	142.5	146.5
67.5°	356.4	123.4	117.5	119.1	124.0	127.2	133.5	126.7	128.8	135.6
70°	288.2	106.3	100.9	105.5	110.3	116.8	117.9	113.3	118.5	126.1
72.5°	204.0	88.9	85.1	94.5	96.0	104.7	102.5	100.2	107.5	110.1
75°	141.4	71.8	69.5	76.7	82.5	89.9	88.3	90.9	106.1	107.3
77.5°	89.5	55.8	54.3	58.9	66.9	75.1	77.7	107.3	181.2	188.4
80°	52.0	41.5	40.0	43.6	50.5	58.1	74.9	131.6	119.4	118.1
82.5°	29.0	28.6	26.5	27.6	33.7	41.9	105.9	92.7	75.3	77.7
85°	13.6	16.8	14.3	13.7	19.0	49.1	70.7	52.9	35.2	34.3
87.5°	3.6	3.2	3.2	3.6	8.0	42.3	28.2	22.5	13.4	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)