

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: P959213

Luminaire Tested: **NAV-SB1A-722-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3801.7 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

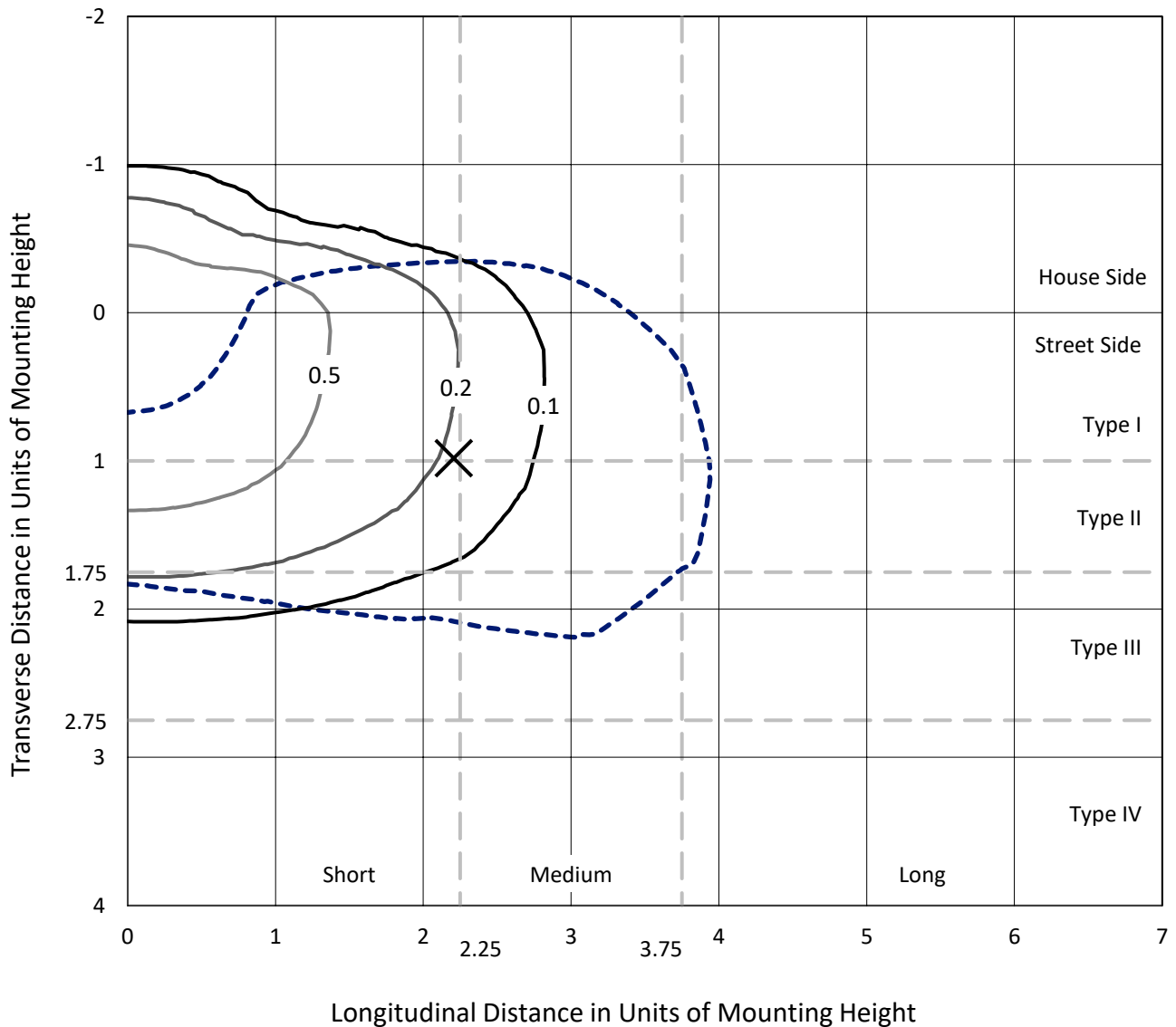
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P959213  
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### Iso-Footcandle Lines of Horizontal Illumination

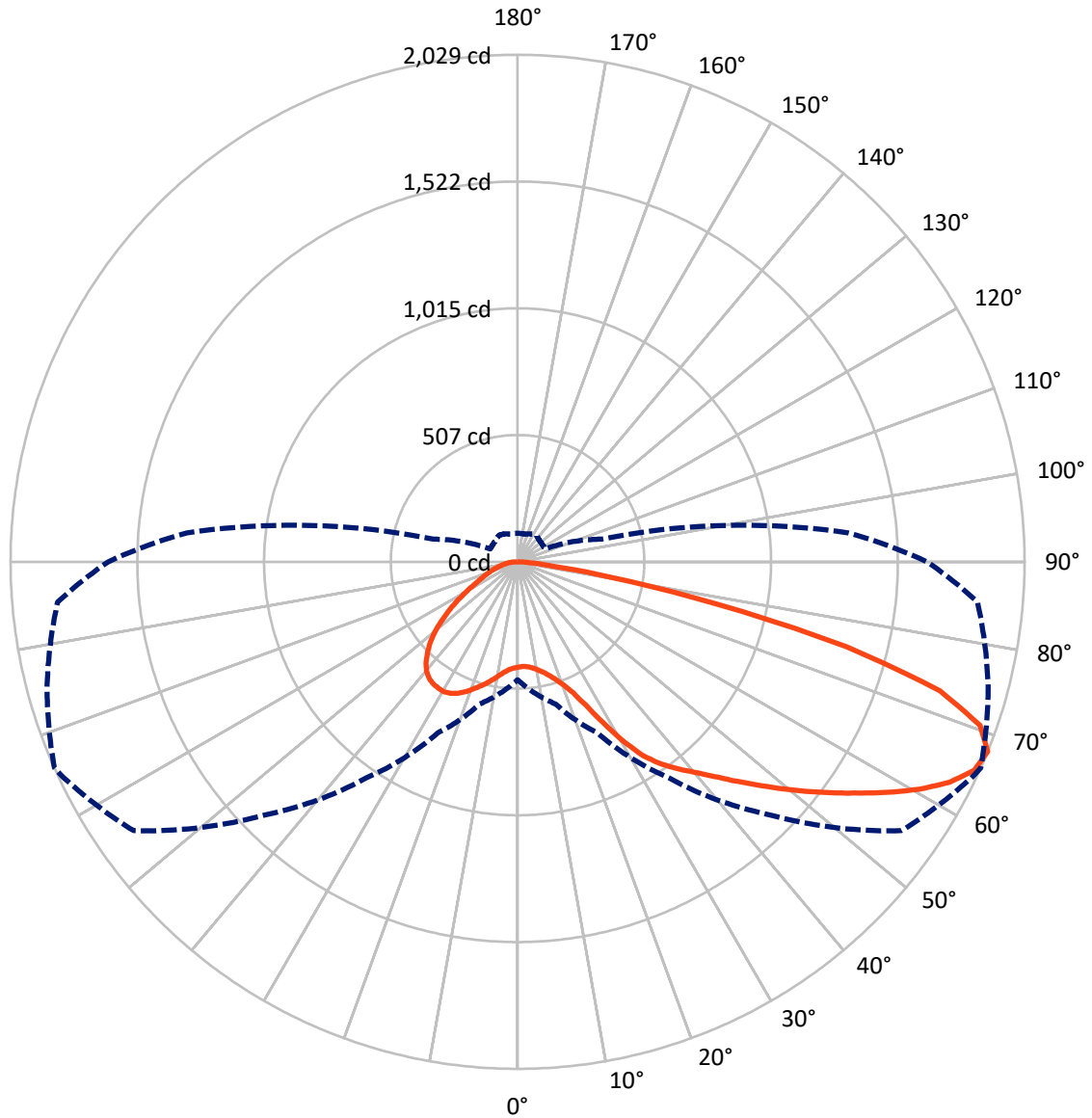
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - Short - N/A

REPORT NUMBER: P959213  
CATALOG NUMBER: NAV-SB1A-722-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P959213  
 CATALOG NUMBER: NAV-SB1A-722-U-T3

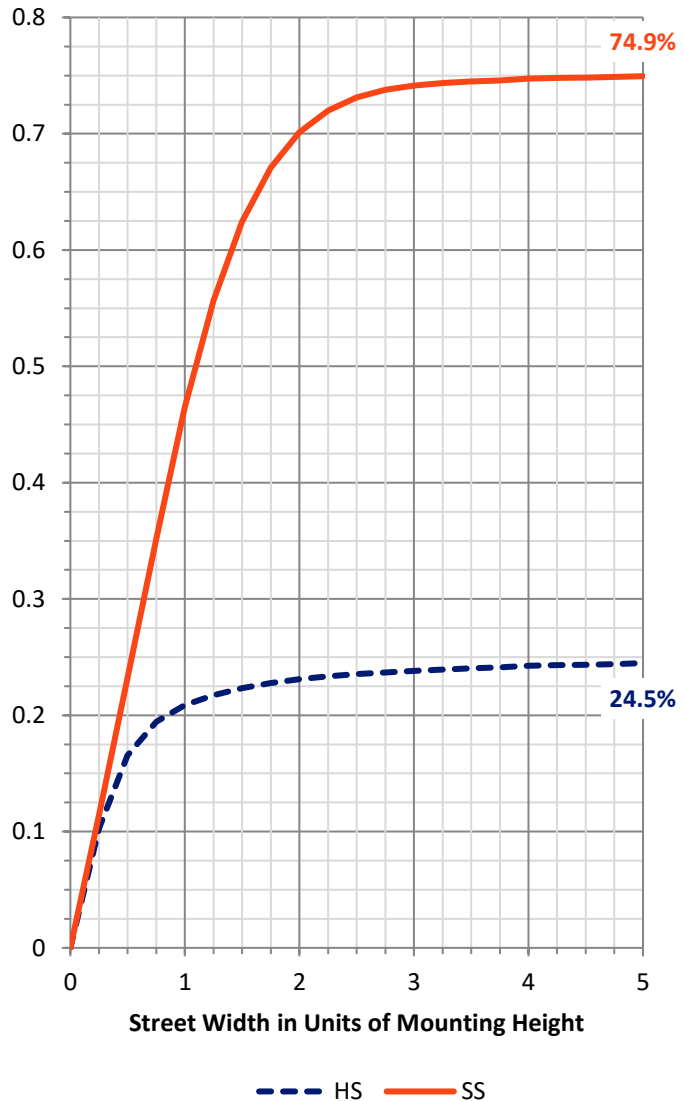
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	945.3	0.0	945.3
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	2856.4	0.0	2856.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	3801.7	0.0	3801.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	1.1
10°-20°	138.1	3.6
20°-30°	266.2	7.0
30°-40°	466.8	12.3
40°-50°	694.0	18.3
50°-60°	879.7	23.1
60°-70°	860.7	22.6
70°-80°	410.6	10.8
80°-90°	43.9	1.2
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°	3801.7	100.0
0°-180°	3801.7	100.0

**Coefficient of Utilization**



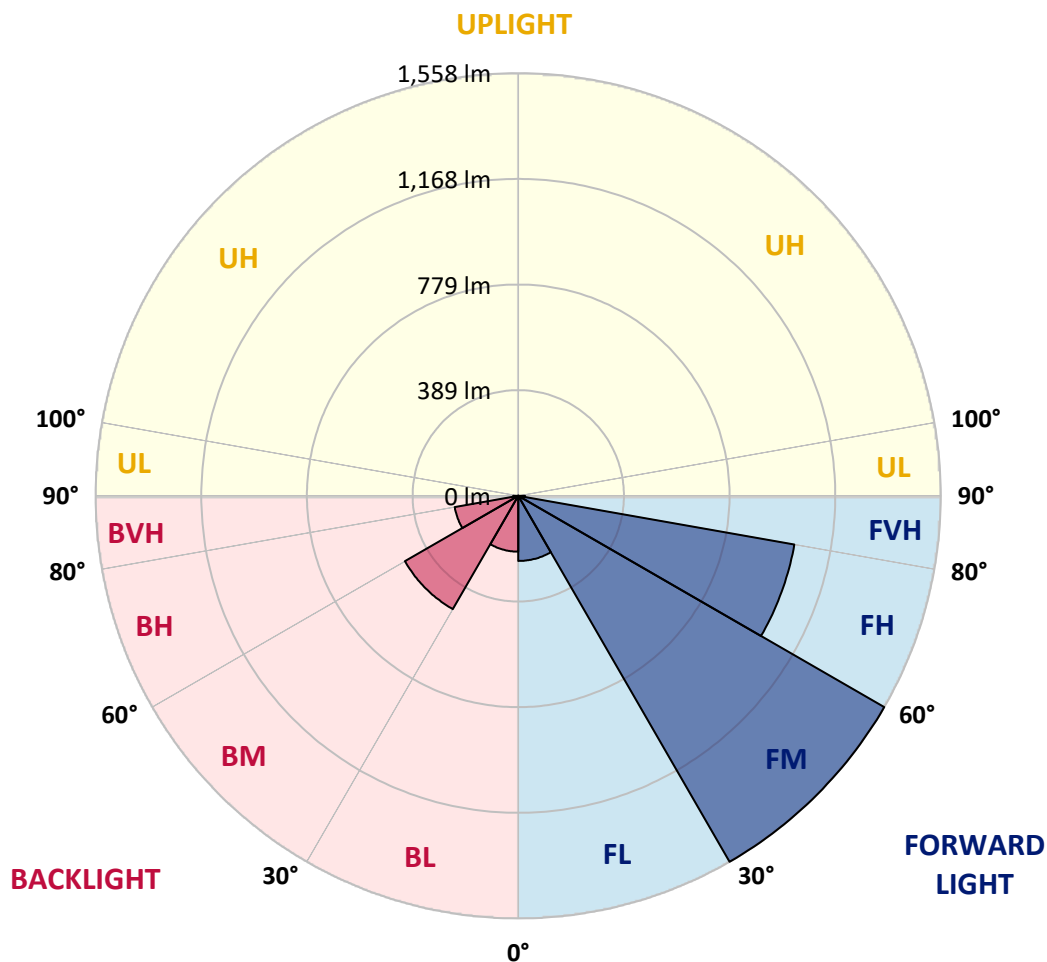
REPORT NUMBER: P959213  
 CATALOG NUMBER: NAV-SB1A-722-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.2	6.3			
FM (30°-60°)	1557.9	41.0			
FH (60°-80°)	1033.4	27.2			G1/1800
FVH (80°-90°)	24.9	0.7			G1/100
BL (0°-30°)	205.9	5.4	B1/500		
BM (30°-60°)	482.5	12.7	B1/1000		
BH (60°-80°)	237.9	6.3	B1/500		G1/500
BVH (80°-90°)	19.0	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 III Short



REPORT NUMBER: P959213  
 CATALOG NUMBER: NAV-SB1A-722-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7
2.5°	417.3	419.6	419.0	418.1	417.9	418.3	418.8	419.4	419.2	420.2	421.9
5°	416.0	418.5	418.3	418.3	419.0	420.7	421.7	422.7	421.7	422.8	425.1
7.5°	416.9	418.7	419.4	420.2	422.3	425.3	427.6	429.9	428.7	430.1	432.9
10°	427.0	428.4	429.3	429.3	430.6	434.1	436.4	440.4	439.4	441.7	445.3
12.5°	445.7	447.0	447.0	446.2	447.2	449.5	450.2	454.6	452.8	456.4	460.0
15°	468.4	471.2	469.0	467.6	468.0	470.2	470.0	473.3	471.6	474.6	477.8
17.5°	493.5	497.1	493.5	493.3	492.6	495.0	495.2	498.2	495.0	497.1	499.4
20°	523.4	528.3	525.3	526.3	524.5	525.5	526.5	530.9	525.9	527.6	527.0
22.5°	565.3	571.2	568.1	571.8	570.7	569.9	569.7	577.5	569.7	570.3	564.5
25°	626.4	633.6	628.0	633.1	633.1	635.8	638.8	648.7	635.8	632.0	617.0
27.5°	716.7	723.9	712.9	716.1	715.0	721.5	718.3	743.0	729.1	722.8	692.7
30°	825.3	838.1	817.3	816.5	815.6	825.7	830.4	846.8	832.5	826.4	790.0
32.5°	942.8	956.2	931.4	924.2	920.4	926.6	922.8	936.0	926.2	916.7	871.7
35°	1067.0	1080.2	1056.7	1042.6	1027.5	1014.5	1000.9	1004.3	995.2	980.5	934.0
37.5°	1184.5	1208.7	1183.7	1168.7	1140.7	1115.4	1077.4	1061.7	1053.1	1039.7	992.7
40°	1304.1	1317.9	1299.0	1286.2	1255.8	1216.1	1155.3	1122.0	1110.4	1097.4	1057.7
42.5°	1392.3	1405.4	1395.2	1386.4	1362.6	1316.5	1238.0	1196.3	1179.5	1164.9	1131.2
45°	1462.2	1471.9	1465.5	1468.7	1458.6	1413.8	1323.7	1275.9	1258.6	1240.9	1214.2
47.5°	1490.2	1500.7	1510.8	1529.8	1547.2	1514.2	1415.8	1362.2	1343.9	1325.7	1299.5
50°	1487.1	1497.7	1527.2	1567.6	1621.6	1610.6	1512.9	1454.2	1437.2	1416.3	1392.3
52.5°	1461.5	1473.5	1511.5	1578.6	1664.5	1682.6	1611.7	1549.0	1533.1	1508.3	1484.1
55°	1394.4	1401.6	1458.6	1553.6	1674.6	1733.0	1708.6	1650.0	1634.2	1599.5	1573.2
57.5°	1270.0	1280.3	1363.2	1486.4	1649.1	1767.1	1793.7	1756.3	1741.0	1691.2	1663.7
60°	1107.6	1124.1	1219.0	1373.3	1583.9	1766.9	1871.0	1860.8	1848.1	1781.6	1752.7
62.5°	923.8	943.0	1034.3	1213.5	1470.2	1716.8	1919.3	1948.3	1941.8	1864.8	1828.1
65°	709.5	722.7	813.5	1006.8	1292.9	1609.1	1925.0	2008.1	2009.2	1928.1	1867.4
67.5°	472.4	510.3	589.3	755.4	1055.6	1433.2	1875.9	2017.8	2029.4	1950.0	1847.7
70°	230.5	280.4	357.7	491.0	755.4	1163.3	1747.3	1937.6	1963.3	1886.4	1729.8
72.5°	95.6	111.8	154.0	242.3	433.7	785.0	1489.3	1719.8	1767.5	1671.5	1454.4
75°	64.5	69.9	88.0	124.2	197.5	387.1	1074.0	1282.4	1359.3	1262.4	1031.9
77.5°	49.7	53.1	64.2	86.9	117.5	146.4	574.8	772.8	812.5	752.2	536.9
80°	39.2	41.7	48.0	63.3	83.3	78.3	196.0	350.1	373.1	313.0	172.6
82.5°	33.9	35.0	34.3	42.9	55.4	45.7	64.3	129.3	142.6	103.4	56.4
85°	24.6	27.4	28.6	26.5	29.3	23.2	26.3	45.7	50.3	44.9	31.8
87.5°	9.9	14.8	18.1	17.2	10.8	6.6	8.2	13.4	15.4	16.8	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P959213  
 CATALOG NUMBER: NAV-SB1A-722-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7
2.5°	422.1	423.4	424.5	425.7	426.5	427.6	430.1	431.4	431.6	432.7	432.4
5°	425.9	427.8	430.1	433.3	436.9	439.8	444.4	447.6	448.8	449.9	449.7
7.5°	434.1	436.9	440.9	446.4	451.6	455.6	461.2	465.0	468.8	470.2	470.4
10°	446.2	450.2	456.0	463.6	469.2	474.4	480.2	483.4	487.2	488.8	489.5
12.5°	461.5	465.6	473.2	483.8	488.9	492.6	494.6	493.7	494.6	496.0	496.4
15°	478.8	483.4	492.0	503.4	507.0	503.8	499.4	495.4	494.8	495.2	496.6
17.5°	499.4	502.8	512.7	522.3	519.8	506.6	496.9	490.6	487.4	486.4	487.8
20°	528.1	528.1	536.3	542.3	524.9	502.6	487.6	477.2	470.6	467.8	467.2
22.5°	563.0	559.9	565.1	560.9	524.0	491.4	470.6	452.6	442.6	438.6	438.1
25°	607.4	603.6	602.2	576.3	516.7	473.6	439.8	418.1	409.3	407.1	407.4
27.5°	674.3	664.7	646.6	584.7	503.6	445.7	403.8	383.8	378.7	378.9	379.6
30°	763.4	744.3	699.7	586.1	482.0	406.1	367.2	352.7	350.3	351.4	354.8
32.5°	845.9	827.8	754.0	579.6	448.8	367.4	334.2	324.6	321.0	322.2	323.8
35°	910.6	905.7	804.4	570.7	408.1	331.0	304.6	296.4	289.5	287.8	289.0
37.5°	971.8	969.8	842.1	558.1	367.8	305.2	280.8	270.1	259.8	254.3	254.5
40°	1038.8	1036.9	866.8	538.7	332.0	282.8	259.4	245.3	232.7	222.5	223.6
42.5°	1114.4	1102.6	878.6	511.0	301.7	263.8	242.1	222.9	206.3	196.9	197.5
45°	1196.9	1170.3	878.5	475.6	276.0	246.5	223.6	196.4	181.0	172.2	171.8
47.5°	1284.3	1235.0	867.7	436.4	251.3	227.3	194.7	173.9	163.8	158.4	157.2
50°	1374.6	1295.5	849.3	391.5	225.9	205.5	176.8	162.6	154.8	149.9	148.0
52.5°	1459.5	1350.4	827.2	340.6	200.2	184.4	168.8	157.7	149.6	144.0	141.7
55°	1538.4	1397.8	795.8	288.4	179.2	170.1	165.0	155.8	146.4	139.8	137.2
57.5°	1608.5	1428.5	741.7	239.5	164.2	160.4	161.0	152.4	141.7	136.0	132.4
60°	1666.9	1451.2	661.5	194.1	152.0	150.8	154.8	146.1	133.5	127.0	124.2
62.5°	1701.8	1450.8	563.2	159.0	141.7	142.1	146.6	138.1	125.3	119.2	117.5
65°	1698.8	1415.2	455.4	136.0	131.6	132.0	138.1	129.3	118.5	114.9	114.7
67.5°	1638.7	1328.5	349.3	121.1	120.6	122.5	129.5	123.2	114.3	113.9	114.5
70°	1475.9	1148.5	251.6	109.1	109.3	111.8	121.1	119.4	112.0	112.9	112.6
72.5°	1183.5	875.7	169.0	96.5	96.7	100.9	113.1	116.4	109.9	120.4	122.1
75°	788.2	546.1	108.6	83.1	83.3	88.7	106.1	110.7	103.8	120.0	121.1
77.5°	378.7	245.5	78.7	69.9	69.9	74.9	91.6	99.1	88.5	93.3	85.5
80°	130.8	92.2	61.9	56.4	55.1	58.5	77.3	85.9	76.3	70.3	65.9
82.5°	51.6	48.0	49.7	43.8	39.8	41.9	60.2	70.9	56.2	50.7	50.5
85°	29.5	31.2	35.2	29.0	23.0	25.7	44.2	50.9	42.3	37.3	38.1
87.5°	8.0	11.0	16.2	15.0	10.4	11.0	21.0	28.2	24.4	18.8	19.4
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)