

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: P959215

Luminaire Tested: **NAV-SB1A-722-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3755.6 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

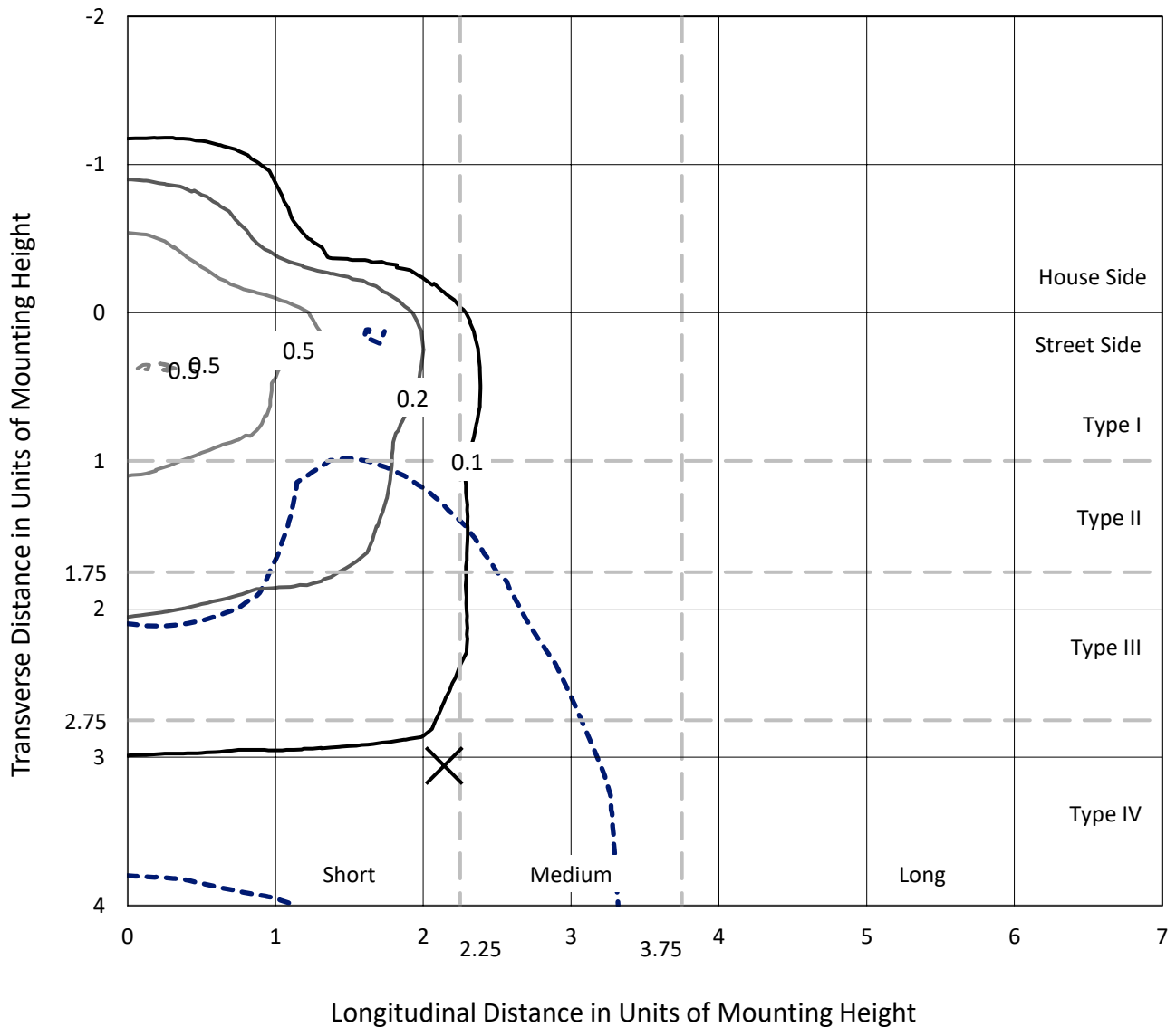
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

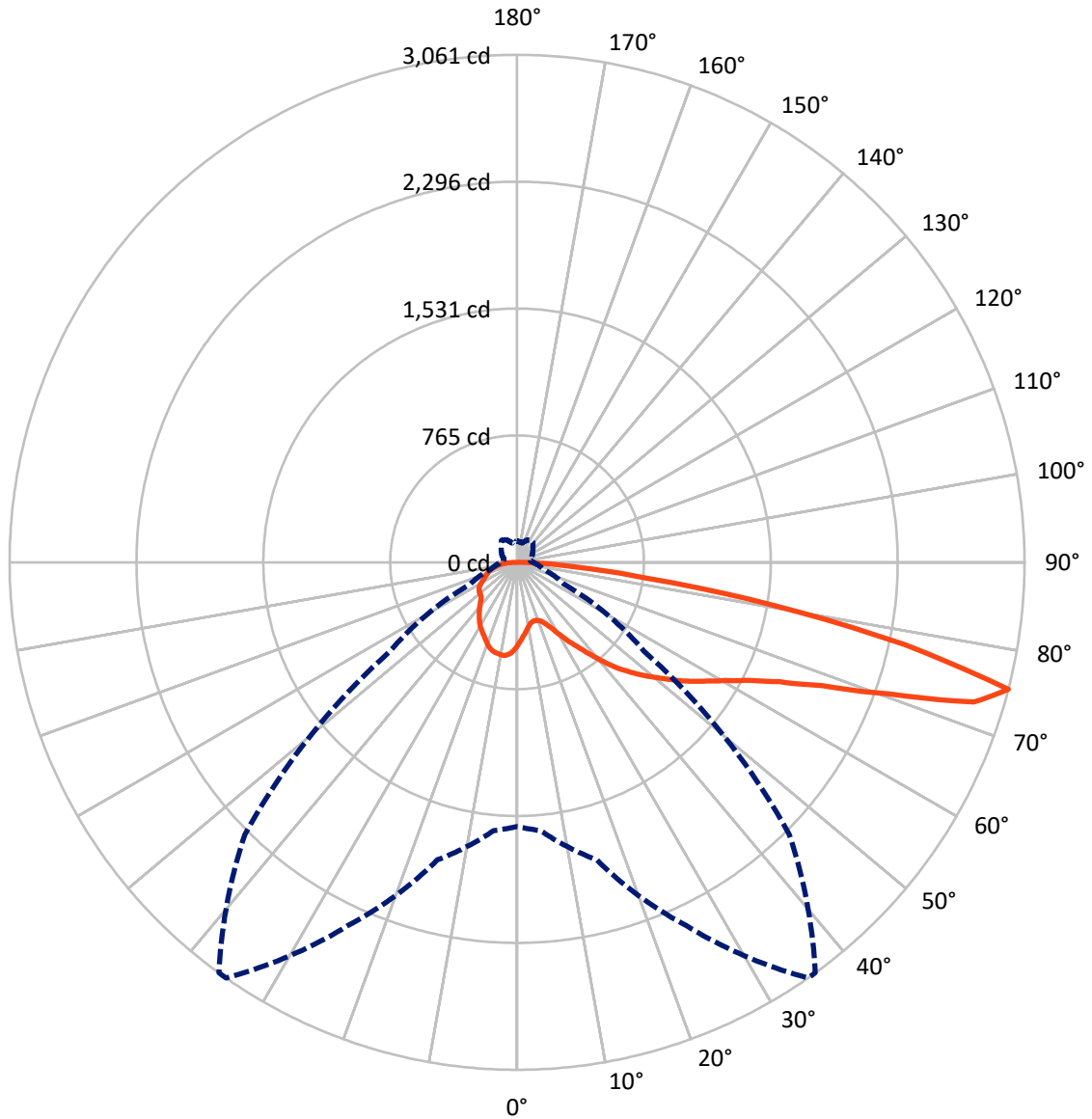
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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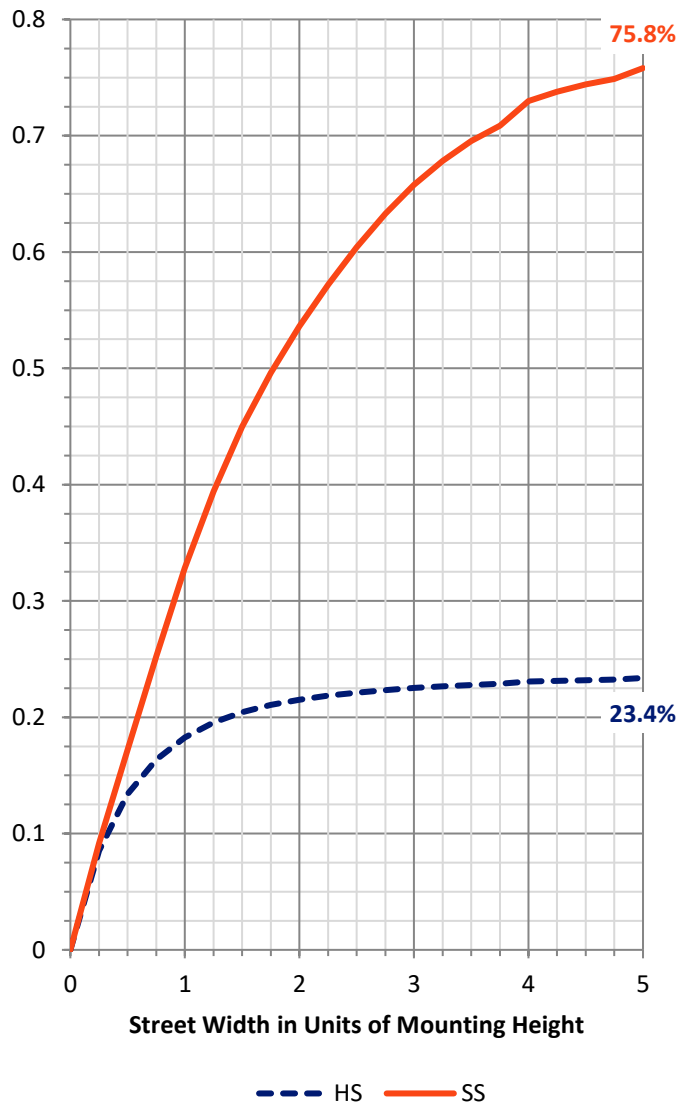
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	893.7	0.0	893.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	2861.9	0.0	2861.9
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	3755.6	0.0	3755.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	1.3
10°-20°	136.7	3.6
20°-30°	229.5	6.1
30°-40°	356.7	9.5
40°-50°	529.4	14.1
50°-60°	730.9	19.5
60°-70°	886.8	23.6
70°-80°	732.8	19.5
80°-90°	105.4	2.8
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°	3755.6	100.0
0°-180°	3755.6	100.0

**Coefficient of Utilization**



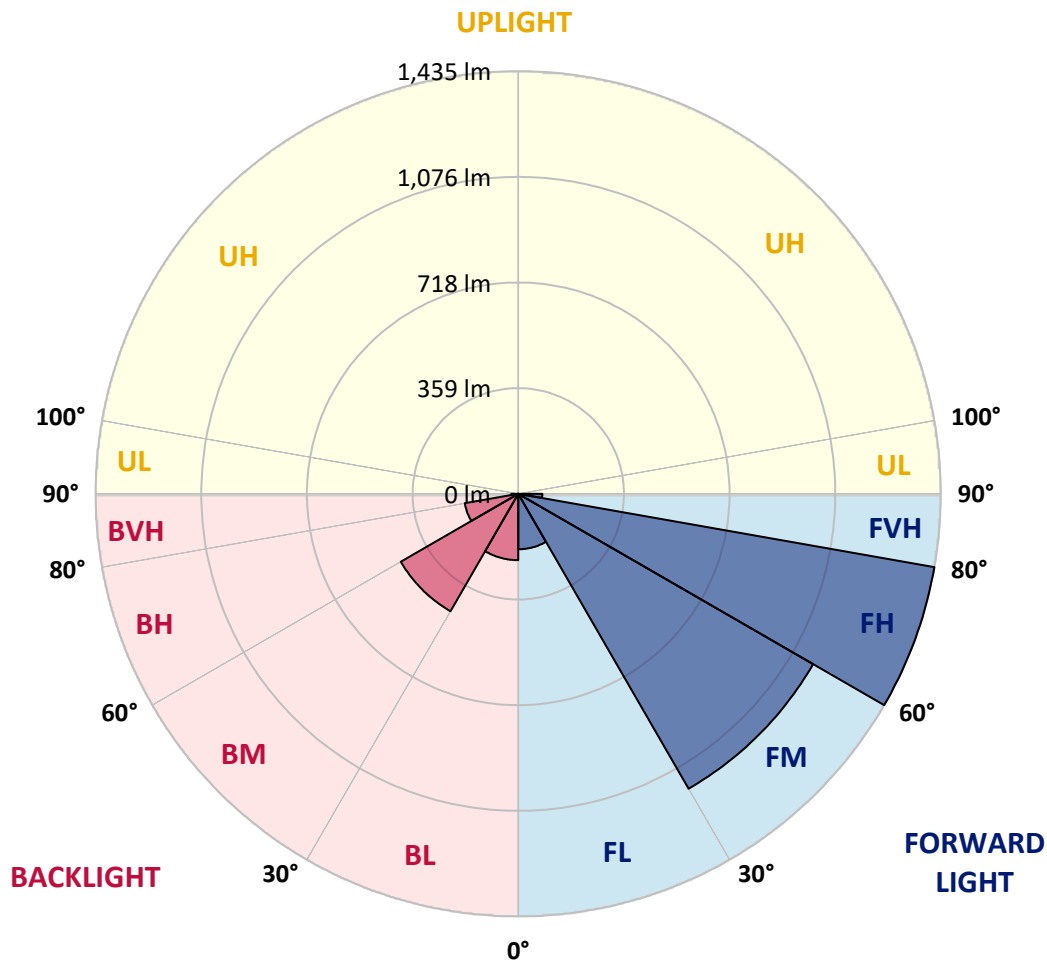
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	188.3	5.0			
FM (30°-60°)	1156.5	30.8			
FH (60°-80°)	1435.3	38.2			G1/1800
FVH (80°-90°)	81.7	2.2			G1/100
BL (0°-30°)	225.2	6.0	B1/500		
BM (30°-60°)	460.5	12.3	B1/1000		
BH (60°-80°)	184.3	4.9	B1/500		G1/500
BVH (80°-90°)	23.7	0.6			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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5
2.5°	461.5	464.3	465.6	464.9	468.0	467.6	471.8	477.1	484.4	491.5	501.8
5°	426.0	429.0	431.6	434.1	439.9	441.8	448.4	458.6	472.0	485.6	502.7
7.5°	392.9	395.4	399.5	404.1	414.0	415.8	426.9	442.8	461.5	481.3	504.9
10°	365.8	368.5	372.8	377.8	390.2	392.5	406.6	427.7	452.1	477.3	507.4
12.5°	354.2	355.1	357.5	362.6	373.4	374.7	390.4	414.6	443.0	474.3	511.1
15°	353.6	355.3	355.5	358.1	367.1	367.7	382.1	406.0	437.4	473.7	516.5
17.5°	359.8	361.0	359.2	360.8	368.3	369.3	380.7	402.0	435.5	476.3	525.8
20°	376.0	377.0	371.6	369.3	374.7	375.6	386.7	404.7	437.4	481.7	538.6
22.5°	410.5	411.1	397.7	388.6	389.0	389.4	399.1	415.4	444.4	491.7	554.8
25°	464.3	463.9	442.6	425.0	414.8	412.6	419.0	432.9	456.4	504.9	575.7
27.5°	527.3	524.2	502.9	476.5	454.4	451.1	449.7	455.6	473.4	522.3	601.4
30°	598.3	595.5	572.6	538.0	507.4	502.0	488.7	485.6	498.9	546.1	636.9
32.5°	676.3	674.4	647.1	605.3	564.2	558.1	535.6	527.5	537.8	582.1	686.4
35°	741.7	740.0	717.3	674.2	624.1	616.6	593.7	584.6	589.8	628.1	751.2
37.5°	800.7	799.9	780.4	746.5	694.7	685.6	659.8	656.8	655.8	688.9	829.7
40°	855.6	853.5	833.2	815.4	776.9	768.6	745.9	743.2	735.5	763.6	918.7
42.5°	916.2	911.0	881.5	873.2	862.8	856.0	842.3	842.8	825.7	847.9	1012.9
45°	965.8	962.8	932.5	927.6	938.8	935.9	947.7	950.8	917.7	936.1	1110.8
47.5°	1019.0	1016.2	990.6	987.1	1017.3	1018.1	1059.7	1060.8	1007.4	1027.9	1208.8
50°	1084.6	1080.6	1055.1	1059.4	1093.3	1096.3	1172.5	1165.5	1090.1	1121.1	1306.1
52.5°	1127.8	1130.3	1124.7	1131.7	1177.9	1180.8	1283.3	1265.7	1171.9	1213.1	1401.5
55°	1159.7	1164.6	1181.6	1197.4	1267.3	1270.2	1387.8	1360.9	1239.6	1298.4	1491.3
57.5°	1200.7	1193.8	1225.7	1256.5	1352.2	1359.7	1489.6	1452.6	1299.8	1371.9	1552.8
60°	1259.6	1254.7	1279.5	1325.1	1447.2	1459.2	1597.2	1535.2	1343.9	1430.1	1564.8
62.5°	1378.9	1366.7	1370.6	1411.0	1566.9	1582.8	1718.6	1607.4	1365.7	1452.8	1500.6
65°	1557.4	1536.5	1517.0	1545.0	1735.6	1751.3	1855.7	1664.0	1357.6	1408.8	1330.2
67.5°	1782.2	1761.5	1737.5	1763.9	1984.2	1996.6	2024.8	1695.9	1293.7	1239.0	1029.1
70°	1967.5	1959.8	1988.4	2097.0	2381.1	2381.5	2241.6	1669.5	1118.5	878.5	595.5
72.5°	1943.0	1938.3	2089.2	2424.9	2881.4	2870.6	2446.9	1469.7	753.5	396.3	223.1
75°	1594.0	1624.2	1857.9	2419.1	3061.1	3059.6	2321.2	934.3	311.6	164.2	115.3
77.5°	854.7	902.6	1206.2	1786.1	2389.6	2425.6	1631.9	326.9	133.8	105.2	79.7
80°	278.8	320.6	480.7	909.4	1552.8	1546.0	699.5	128.3	91.5	74.5	55.2
82.5°	118.4	123.2	214.8	429.4	796.8	784.5	222.7	73.7	64.4	50.9	34.1
85°	46.3	51.8	94.8	198.5	345.1	337.6	80.4	36.6	41.2	33.3	20.3
87.5°	15.3	18.4	33.9	68.1	107.4	103.5	19.7	12.6	17.8	15.3	7.3
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°	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5
2.5°	504.7	508.0	511.8	517.5	522.3	526.4	530.7	533.3	534.3	537.4	537.2
5°	508.4	515.5	525.0	534.3	543.5	549.0	553.8	556.3	558.5	560.2	560.6
7.5°	514.4	523.6	538.6	550.8	558.5	563.0	566.2	565.4	566.2	566.6	567.2
10°	519.8	532.5	550.4	562.0	567.8	568.1	567.2	564.4	563.0	563.2	563.6
12.5°	526.0	540.3	559.5	569.3	570.9	566.4	563.0	558.1	556.3	555.4	555.0
15°	534.5	550.8	569.5	573.2	569.1	563.4	557.5	549.6	545.5	542.3	543.2
17.5°	544.9	562.8	577.2	574.5	565.8	556.5	546.9	534.9	526.6	523.2	523.4
20°	559.3	575.3	583.1	571.5	558.3	544.1	527.9	513.2	505.5	502.0	501.6
22.5°	576.8	592.2	588.8	566.2	547.6	524.8	504.5	493.7	489.9	487.5	487.9
25°	597.7	610.9	592.9	558.5	529.9	499.3	483.6	480.1	478.4	476.5	476.5
27.5°	624.9	632.0	595.8	547.1	502.2	472.0	466.4	467.0	466.4	463.3	463.9
30°	660.8	659.4	598.7	528.7	470.6	447.5	447.9	450.5	450.9	448.8	449.9
32.5°	708.2	693.7	600.1	504.7	440.3	426.0	426.4	429.2	431.2	427.7	429.4
35°	765.4	733.7	597.9	474.7	417.0	405.5	402.4	403.2	403.8	400.6	402.8
37.5°	832.2	778.6	587.9	441.4	397.7	385.3	378.8	373.4	370.1	367.1	369.1
40°	905.5	827.6	569.7	408.9	376.2	364.0	354.2	343.9	332.9	328.9	330.8
42.5°	982.3	877.9	547.6	377.8	351.5	341.5	331.2	316.1	299.7	291.3	292.3
45°	1061.8	929.5	525.8	347.2	326.1	321.7	309.9	291.7	273.9	263.3	262.5
47.5°	1139.8	978.2	493.9	316.3	302.3	307.0	297.7	281.0	261.1	244.5	242.6
50°	1214.3	1023.9	441.8	285.1	283.0	302.5	293.6	269.6	246.9	225.6	223.8
52.5°	1288.2	1060.8	374.9	256.7	272.6	301.2	288.3	261.9	234.1	211.8	209.3
55°	1350.9	1079.9	310.7	232.3	257.7	290.9	282.0	252.8	216.1	192.3	190.2
57.5°	1386.6	1064.5	257.1	208.3	237.0	273.9	271.2	233.3	194.5	176.2	173.8
60°	1371.2	1001.9	213.2	187.4	217.2	255.4	252.6	214.0	178.0	160.8	158.4
62.5°	1286.2	882.7	178.5	169.1	199.4	236.6	233.9	199.2	165.4	148.8	146.2
65°	1114.8	718.1	151.5	153.9	181.3	213.8	217.6	186.8	155.5	139.3	136.6
67.5°	850.2	520.2	130.4	140.7	163.6	191.5	202.6	177.8	147.2	131.8	129.4
70°	484.6	295.4	112.4	127.9	148.0	170.8	191.1	170.8	138.3	125.5	123.8
72.5°	183.8	135.6	97.3	115.1	132.9	153.2	178.2	159.6	127.9	118.4	116.7
75°	98.1	82.6	81.8	100.1	115.7	136.2	162.3	148.6	120.2	125.0	129.1
77.5°	66.8	58.4	68.5	85.7	96.9	117.4	145.1	131.9	104.1	103.7	95.6
80°	46.3	41.4	55.7	69.0	74.9	98.7	126.7	113.3	84.9	79.1	75.7
82.5°	27.8	27.0	41.6	51.6	53.0	76.2	105.0	95.0	69.4	60.5	60.9
85°	15.3	16.0	26.5	30.2	30.9	53.2	82.2	73.5	53.4	44.9	45.3
87.5°	4.3	5.4	9.7	12.0	14.9	27.6	48.9	43.7	26.8	18.7	18.7
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)