

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: P959742

Luminaire Tested: **NAV-SB1B-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959742
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-SB1B-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4714 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

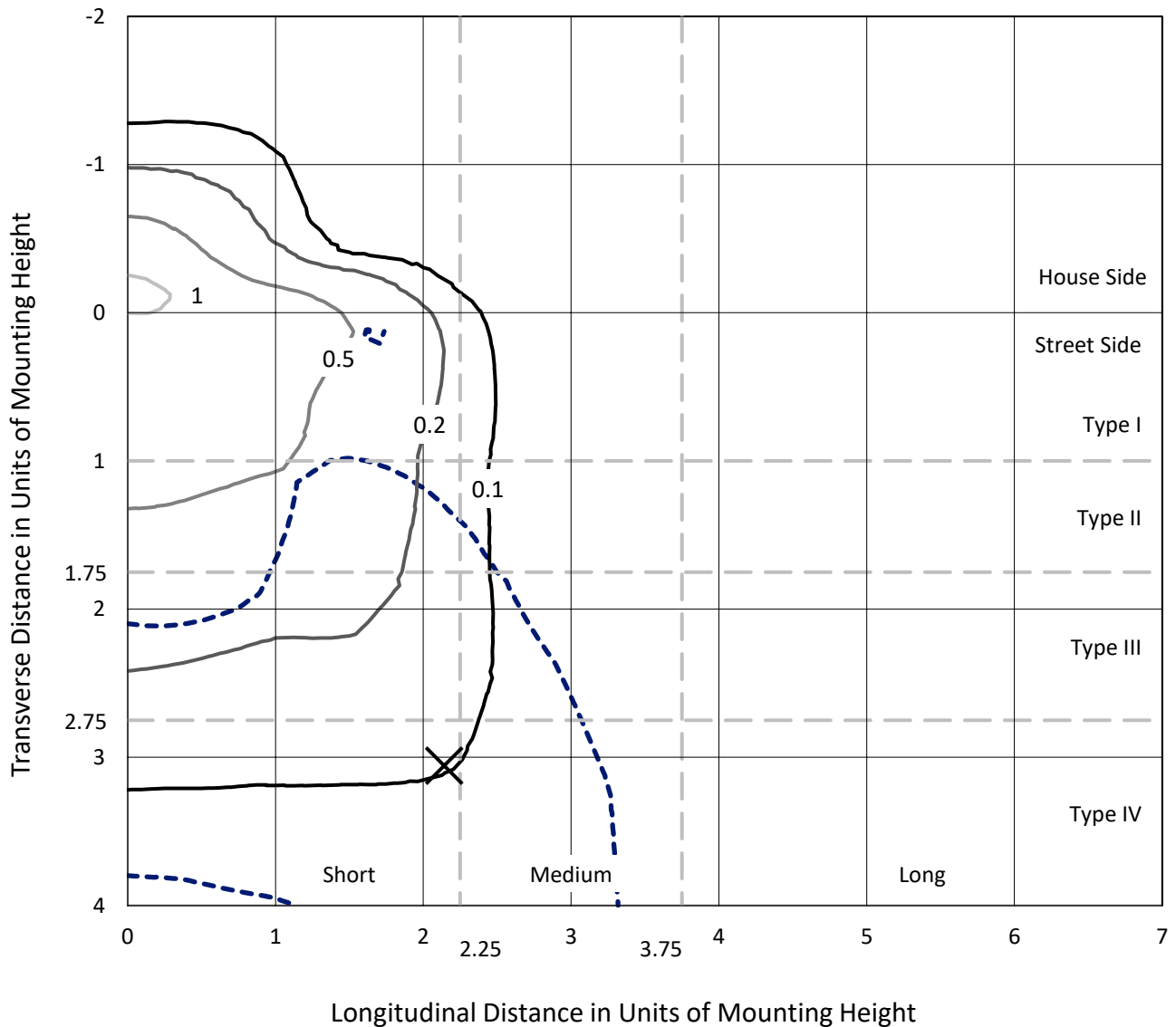
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

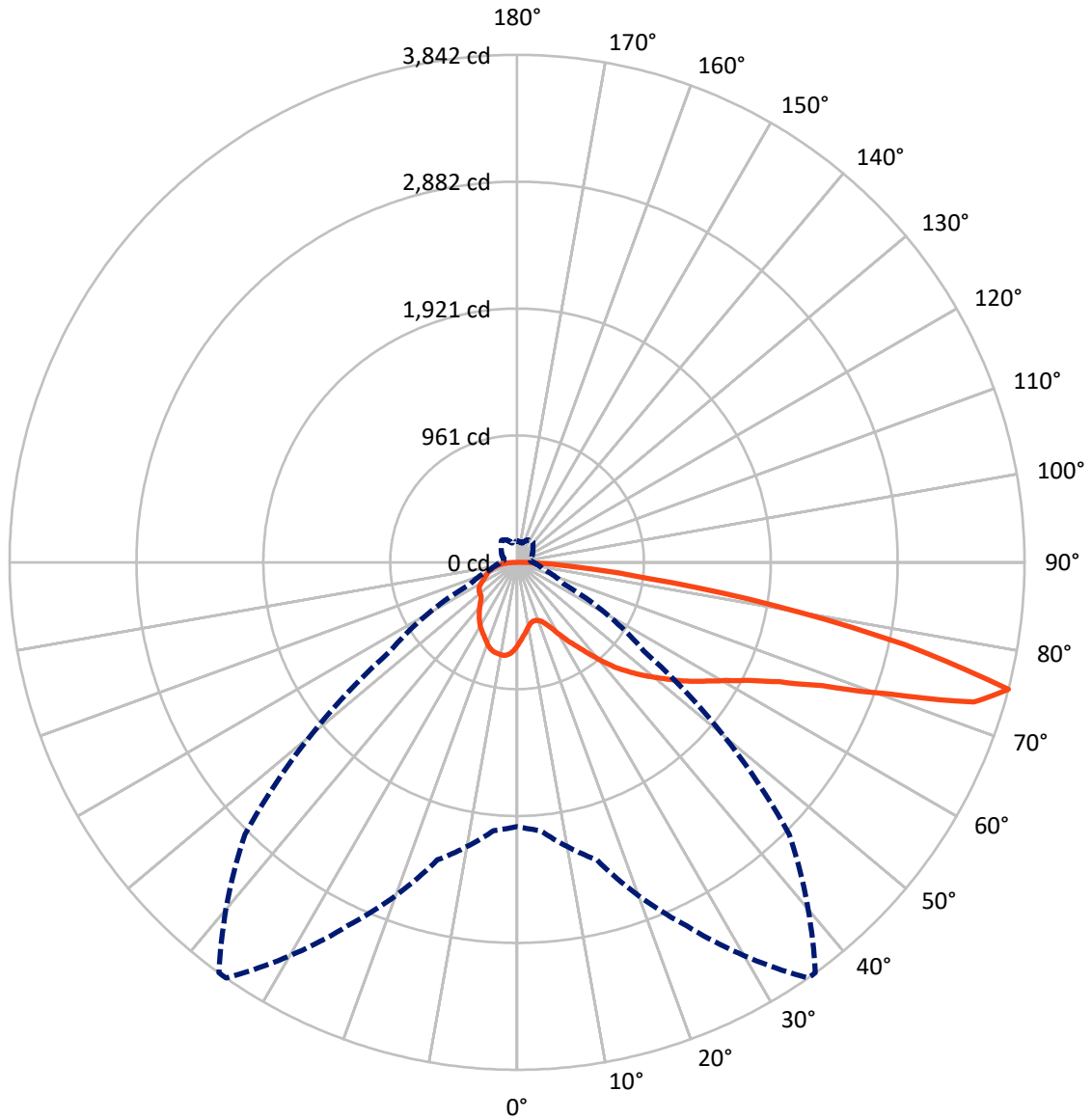
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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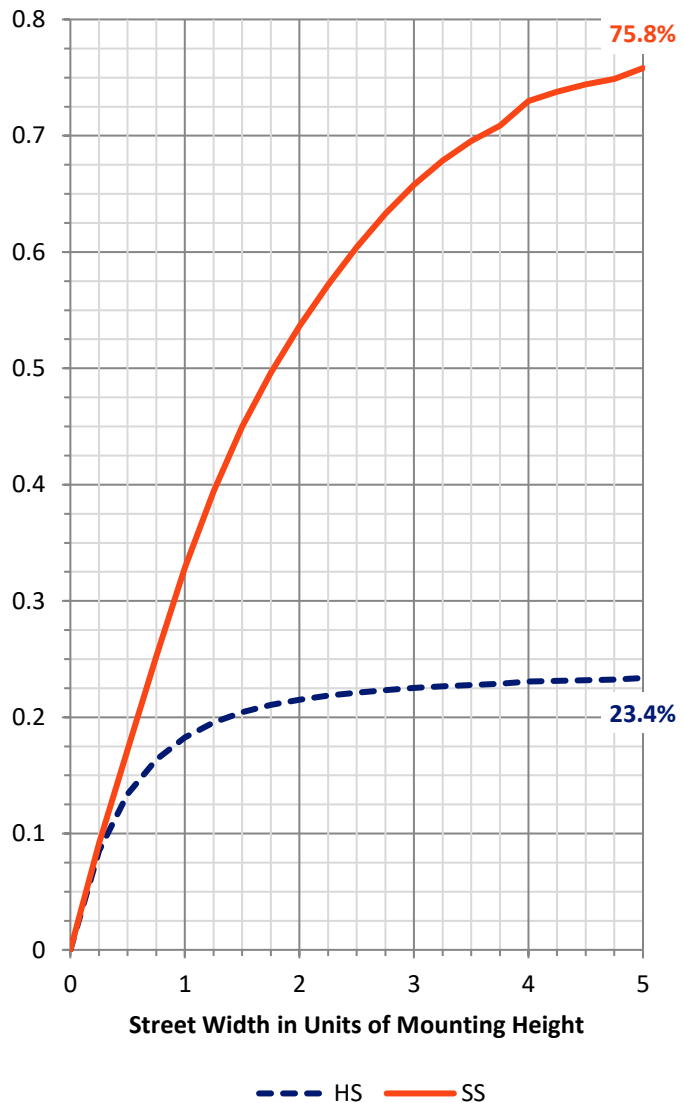
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1121.8	0.0	1121.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3592.2	0.0	3592.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	4714.0	0.0	4714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	1.3
10°-20°	171.6	3.6
20°-30°	288.1	6.1
30°-40°	447.7	9.5
40°-50°	664.5	14.1
50°-60°	917.4	19.5
60°-70°	1113.0	23.6
70°-80°	919.8	19.5
80°-90°	132.3	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°	4714.0	100.0
0°-180°	4714.0	100.0

Coefficient of Utilization

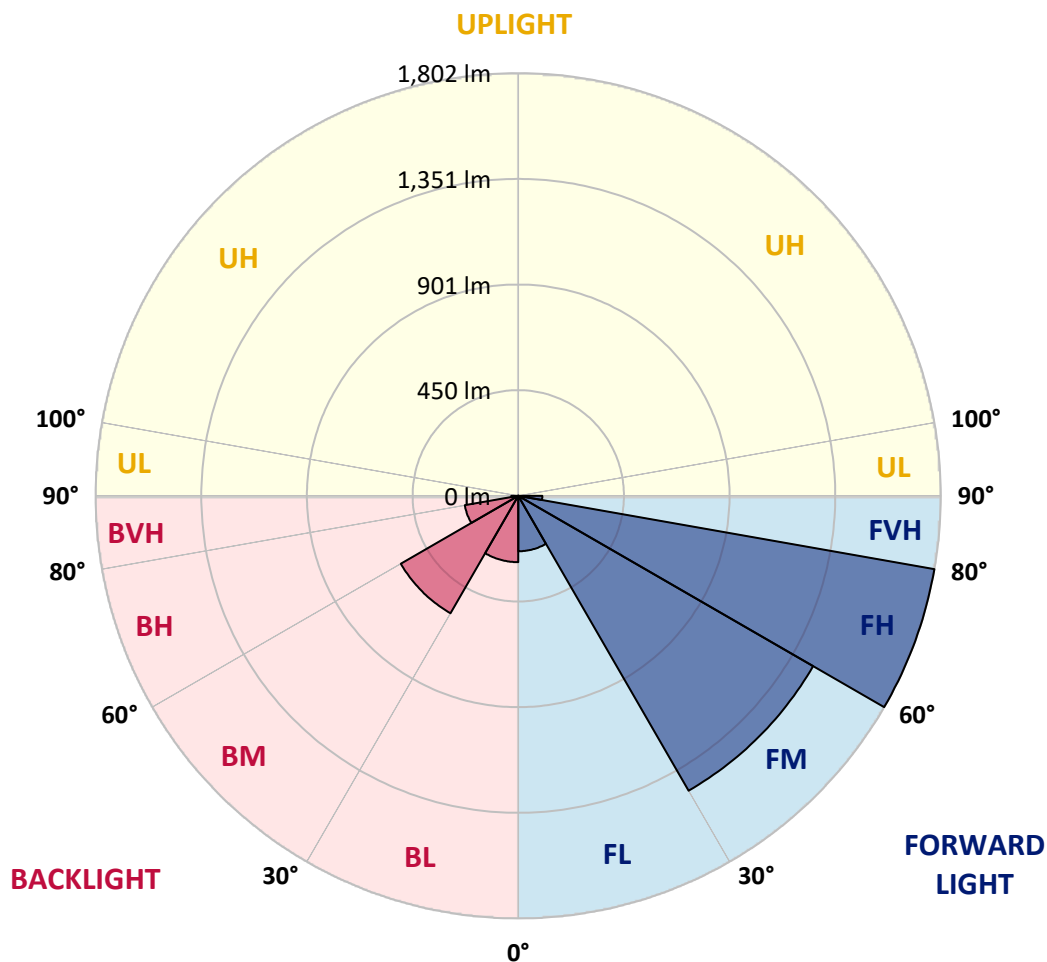


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.4	5.0			
FM (30°-60°)	1451.7	30.8			
FH (60°-80°)	1801.6	38.2			G2/5000
FVH (80°-90°)	102.5	2.2			G2/225
BL (0°-30°)	282.7	6.0	B1/500		
BM (30°-60°)	578.0	12.3	B1/1000		
BH (60°-80°)	231.3	4.9	B1/500		G1/500
BVH (80°-90°)	29.8	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-G2
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1
2.5°	579.2	582.8	584.4	583.5	587.4	586.9	592.2	598.9	608.0	616.9	630.0
5°	534.6	538.4	541.8	544.8	552.3	554.5	562.9	575.6	592.4	609.6	631.0
7.5°	493.1	496.4	501.5	507.2	519.6	521.9	535.9	555.8	579.2	604.2	633.8
10°	459.2	462.5	467.9	474.3	489.7	492.6	510.4	536.9	567.5	599.1	636.8
12.5°	444.6	445.7	448.7	455.1	468.6	470.5	490.1	520.4	556.1	595.3	641.4
15°	443.9	446.0	446.2	449.6	460.7	461.6	479.6	509.6	548.9	594.5	648.3
17.5°	451.6	453.0	450.8	452.8	462.3	463.5	477.9	504.6	546.6	597.9	660.0
20°	471.9	473.2	466.4	463.5	470.5	471.4	485.4	507.9	548.9	604.8	676.1
22.5°	515.3	516.1	499.2	487.8	488.3	488.8	501.0	521.4	557.8	617.3	696.5
25°	582.8	582.3	555.6	533.4	520.6	517.8	526.0	543.4	572.9	633.8	722.7
27.5°	661.8	657.9	631.2	598.1	570.3	566.2	564.5	571.8	594.3	655.7	754.8
30°	751.0	747.4	718.6	675.3	636.8	630.2	613.4	609.6	626.2	685.5	799.4
32.5°	848.9	846.5	812.2	759.6	708.2	700.6	672.3	662.0	675.1	730.6	861.6
35°	930.9	928.9	900.4	846.3	783.4	774.0	745.2	733.7	740.3	788.4	942.9
37.5°	1005.1	1004.1	979.6	937.1	872.1	860.6	828.2	824.4	823.1	864.7	1041.5
40°	1073.9	1071.3	1045.8	1023.5	975.3	964.8	936.2	933.0	923.2	958.5	1153.1
42.5°	1150.0	1143.5	1106.5	1096.0	1083.0	1074.4	1057.3	1057.8	1036.4	1064.2	1271.4
45°	1212.3	1208.5	1170.4	1164.3	1178.3	1174.8	1189.6	1193.4	1151.9	1175.1	1394.2
47.5°	1279.0	1275.4	1243.3	1239.0	1276.9	1278.0	1330.2	1331.5	1264.5	1290.3	1517.3
50°	1361.3	1356.3	1324.4	1329.7	1372.3	1376.1	1471.7	1463.0	1368.2	1407.2	1639.4
52.5°	1415.6	1418.7	1411.8	1420.4	1478.6	1482.1	1610.8	1588.6	1470.9	1522.6	1759.1
55°	1455.6	1461.8	1483.2	1503.1	1590.7	1594.3	1742.1	1708.2	1556.1	1629.6	1871.8
57.5°	1507.1	1498.4	1538.4	1577.2	1697.2	1706.6	1869.7	1823.4	1631.5	1721.9	1948.9
60°	1581.0	1574.9	1606.0	1663.3	1816.5	1831.5	2004.8	1927.1	1686.7	1795.1	1964.0
62.5°	1730.8	1715.5	1720.4	1771.1	1966.8	1986.7	2157.2	2017.5	1714.3	1823.6	1883.4
65°	1954.9	1928.6	1904.1	1939.3	2178.6	2198.2	2329.2	2088.6	1704.1	1768.3	1669.7
67.5°	2237.0	2210.9	2180.9	2214.0	2490.5	2506.0	2541.5	2128.6	1623.8	1555.2	1291.8
70°	2469.6	2459.9	2495.9	2632.2	2988.7	2989.2	2813.6	2095.5	1403.8	1102.7	747.4
72.5°	2438.8	2432.9	2622.3	3043.7	3616.6	3603.1	3071.3	1844.8	945.7	497.4	280.0
75°	2000.7	2038.7	2332.0	3036.4	3842.1	3840.4	2913.6	1172.7	391.1	206.1	144.7
77.5°	1072.9	1133.0	1514.0	2241.8	2999.5	3044.6	2048.4	410.3	167.9	132.0	100.1
80°	349.9	402.4	603.4	1141.4	1948.9	1940.5	877.9	161.0	114.9	93.5	69.3
82.5°	148.5	154.7	269.6	538.9	1000.2	984.7	279.5	92.5	80.8	64.0	42.8
85°	58.1	65.0	119.0	249.3	433.3	423.8	101.0	45.9	51.8	41.8	25.5
87.5°	19.1	23.2	42.5	85.4	134.8	130.0	24.7	15.8	22.4	19.1	9.2
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°	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1
2.5°	633.6	637.6	642.5	649.5	655.7	660.8	666.1	669.4	670.8	674.6	674.2
5°	638.1	647.0	659.0	670.8	682.2	689.1	695.2	698.2	701.1	703.0	703.6
7.5°	645.8	657.2	676.1	691.4	701.1	706.6	710.7	709.7	710.7	711.2	712.0
10°	652.4	668.4	690.8	705.4	712.8	713.0	712.0	708.5	706.6	706.9	707.5
12.5°	660.3	678.1	702.3	714.5	716.6	710.9	706.6	700.6	698.2	697.2	696.7
15°	671.0	691.4	714.8	719.4	714.3	707.1	699.8	689.8	684.7	680.7	681.9
17.5°	684.0	706.4	724.5	721.2	710.2	698.5	686.5	671.5	661.0	656.7	656.9
20°	702.0	722.2	731.8	717.4	700.8	683.0	662.6	644.2	634.6	630.2	629.7
22.5°	724.0	743.3	739.0	710.7	687.3	658.8	633.2	619.7	614.9	611.8	612.3
25°	750.2	766.8	744.2	701.1	665.1	626.7	607.0	602.7	600.3	598.1	598.1
27.5°	784.4	793.3	747.9	686.7	630.5	592.4	585.4	586.1	585.4	581.6	582.3
30°	829.5	827.7	751.5	663.6	590.7	561.7	562.2	565.5	566.0	563.4	564.7
32.5°	888.9	870.7	753.3	633.6	552.8	534.6	535.2	538.7	541.3	536.9	538.9
35°	960.7	921.0	750.5	595.8	523.5	508.9	505.1	506.1	506.9	502.8	505.6
37.5°	1044.6	977.3	738.0	554.0	499.2	483.7	475.5	468.6	464.5	460.7	463.3
40°	1136.5	1038.7	715.0	513.2	472.2	456.9	444.6	431.7	417.9	412.9	415.1
42.5°	1232.9	1101.9	687.3	474.3	441.2	428.7	415.6	396.8	376.2	365.7	367.0
45°	1332.8	1166.7	660.0	435.7	409.3	404.0	388.9	366.2	343.8	330.6	329.5
47.5°	1430.7	1227.8	620.0	397.0	379.5	385.3	373.6	352.7	327.7	306.8	304.5
50°	1524.2	1285.1	554.5	357.8	355.3	379.7	368.5	338.5	309.9	283.1	280.8
52.5°	1616.9	1331.5	470.7	322.2	342.2	378.2	361.8	328.7	293.9	265.8	262.7
55°	1695.7	1355.5	389.9	291.5	323.4	365.2	353.9	317.2	271.1	241.3	238.8
57.5°	1740.6	1336.1	322.7	261.5	297.4	343.8	340.5	292.8	244.2	221.2	218.1
60°	1721.2	1257.6	267.6	235.2	272.6	320.6	317.0	268.5	223.4	201.8	198.7
62.5°	1614.4	1108.0	224.0	212.3	250.2	296.8	293.6	250.0	207.7	186.8	183.5
65°	1399.3	901.4	190.1	193.2	227.6	268.3	273.2	234.4	195.2	174.9	171.5
67.5°	1067.2	652.9	163.6	176.6	205.4	240.3	254.3	223.2	184.7	165.4	162.4
70°	608.3	370.7	141.1	160.5	185.7	214.3	239.8	214.3	173.5	157.4	155.5
72.5°	230.6	170.3	122.1	144.5	166.9	192.4	223.8	200.3	160.5	148.5	146.6
75°	123.1	103.7	102.7	125.7	145.2	171.0	203.6	186.5	150.9	156.9	162.1
77.5°	83.8	73.4	85.9	107.5	121.6	147.3	182.2	165.6	130.7	130.2	120.0
80°	58.1	52.0	69.8	86.6	94.0	123.8	159.0	142.2	106.5	99.4	95.0
82.5°	35.0	33.9	52.3	64.7	66.5	95.5	131.7	119.3	87.1	76.0	76.5
85°	19.1	20.1	33.4	37.9	38.7	66.7	103.2	92.2	67.0	56.3	56.8
87.5°	5.3	6.9	12.2	15.1	18.6	34.6	61.4	54.8	33.6	23.5	23.5
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)