

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: P961317

Luminaire Tested: **NAV-SB2A-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7526.6 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

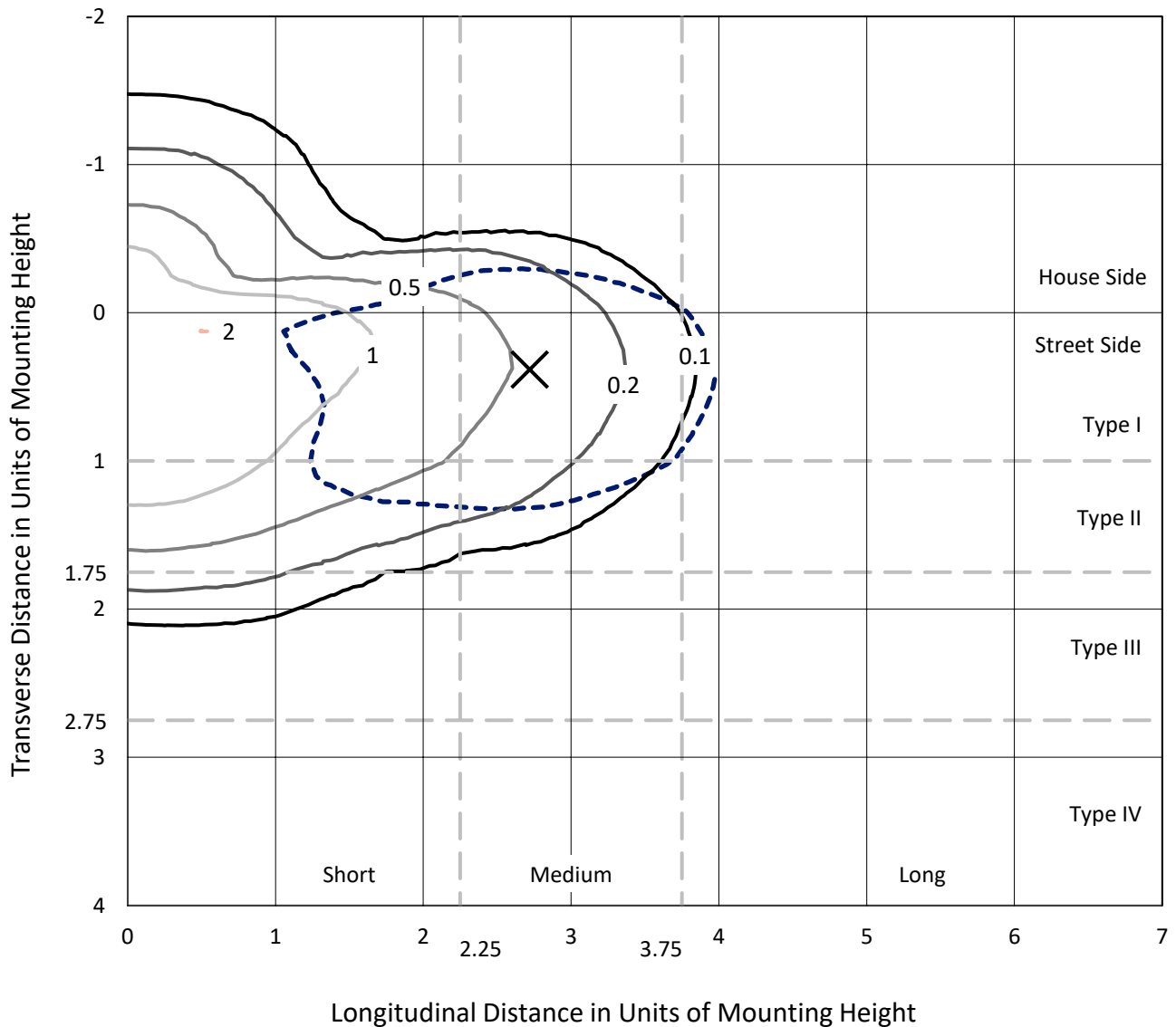
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961317
 CATALOG NUMBER: NAV-SB2A-722-U-T2

Iso-Footcandle Lines of Horizontal Illumination

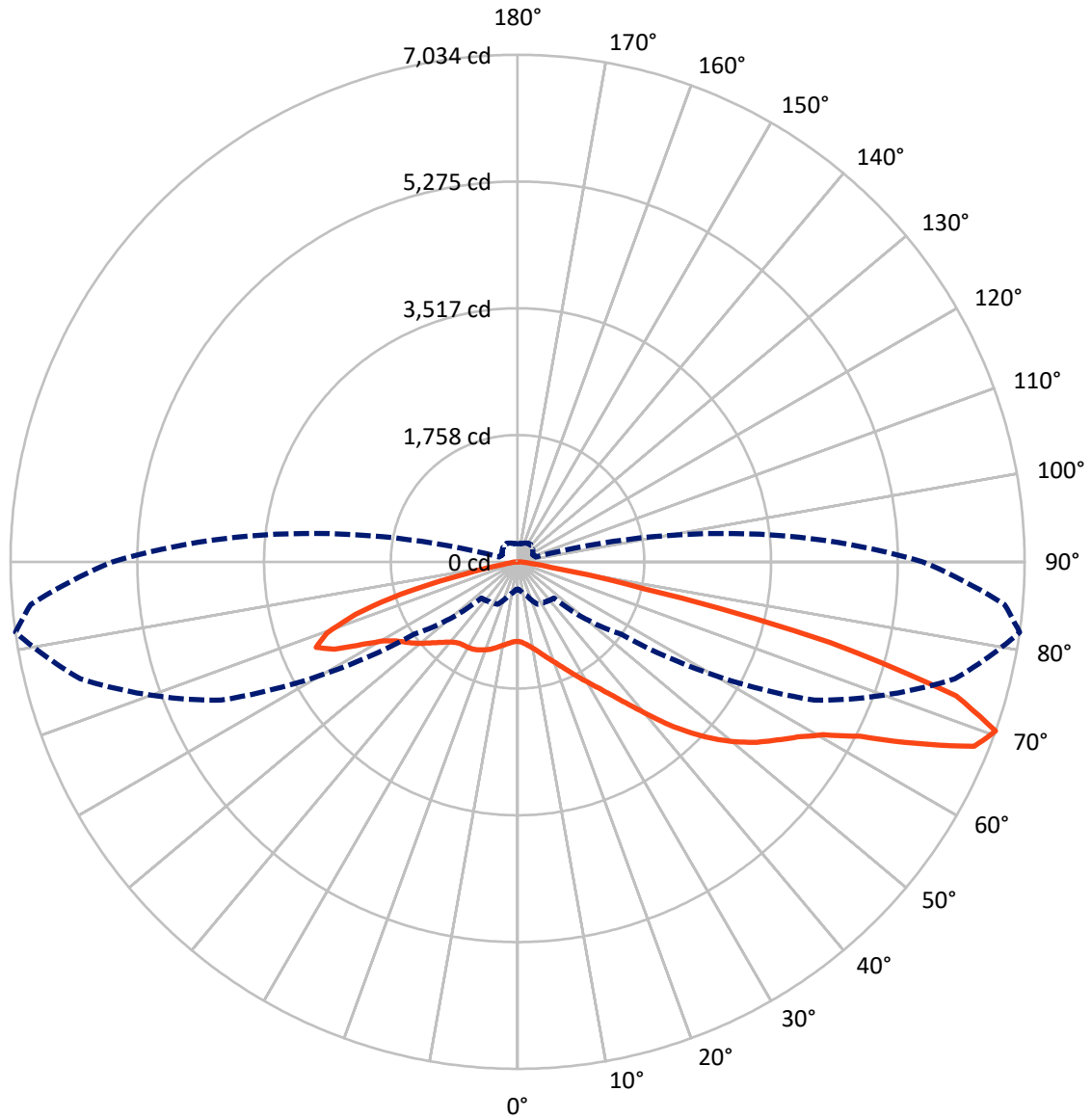
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

REPORT NUMBER: P961317
CATALOG NUMBER: NAV-SB2A-722-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P961317
 CATALOG NUMBER: NAV-SB2A-722-U-T2

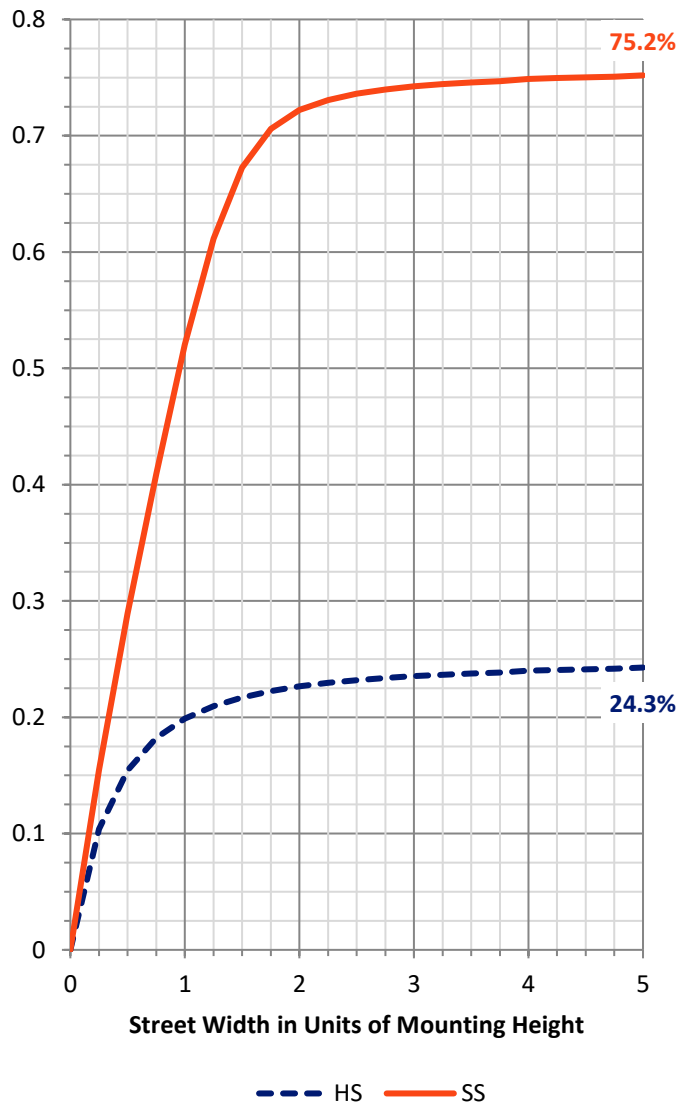
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1855.5	0.0	1855.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5671.1	0.0	5671.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	7526.6	0.0	7526.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	1.4
10°-20°	299.3	4.0
20°-30°	500.8	6.7
30°-40°	782.3	10.4
40°-50°	1246.0	16.6
50°-60°	1733.9	23.0
60°-70°	1813.7	24.1
70°-80°	947.9	12.6
80°-90°	98.4	1.3
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°	7526.6	100.0
0°-180°	7526.6	100.0

Coefficient of Utilization

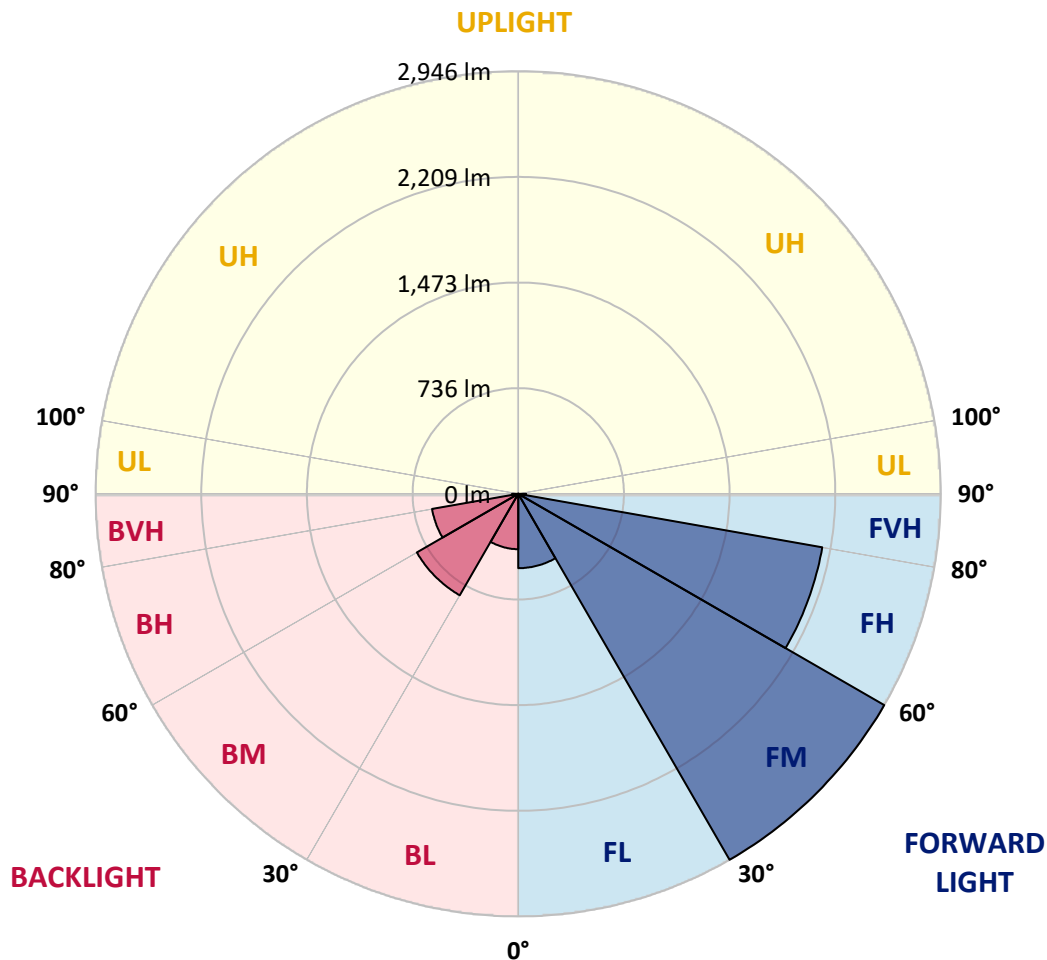


REPORT NUMBER: P961317
 CATALOG NUMBER: NAV-SB2A-722-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.3	6.9			
FM (30°-60°)	2945.8	39.1			
FH (60°-80°)	2151.9	28.6			G2/5000
FVH (80°-90°)	55.1	0.7			G1/100
BL (0°-30°)	386.0	5.1	B1/500		
BM (30°-60°)	816.3	10.8	B1/1000		
BH (60°-80°)	609.8	8.1	B2/1000		G2/1000
BVH (80°-90°)	43.3	0.6			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 II Medium



REPORT NUMBER: P961317
 CATALOG NUMBER: NAV-SB2A-722-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5
2.5°	1129.9	1136.2	1134.3	1132.2	1132.2	1129.4	1129.0	1125.0	1121.9	1116.6	1115.5
5°	1144.2	1151.0	1150.3	1151.8	1157.0	1158.2	1159.4	1157.0	1150.7	1144.2	1141.4
7.5°	1131.5	1139.1	1141.4	1151.0	1167.0	1181.4	1192.2	1196.6	1190.5	1181.4	1177.0
10°	1088.3	1096.8	1105.1	1127.8	1156.2	1190.1	1218.9	1236.0	1234.9	1226.1	1218.5
12.5°	1000.8	1009.6	1027.6	1071.9	1123.8	1183.8	1237.3	1273.3	1285.7	1279.2	1266.1
15°	931.0	938.6	952.1	997.6	1065.2	1156.2	1244.0	1313.9	1345.5	1341.9	1325.9
17.5°	929.0	932.1	940.5	962.1	1014.0	1113.0	1236.9	1353.9	1414.2	1413.8	1393.8
20°	964.1	965.3	970.1	974.5	1004.1	1080.4	1218.5	1387.0	1491.3	1491.3	1469.7
22.5°	1012.8	1012.0	1016.8	1012.8	1027.3	1077.5	1206.9	1416.2	1577.2	1583.5	1556.4
25°	1085.9	1081.9	1080.8	1071.5	1074.3	1103.5	1219.8	1449.4	1679.0	1692.2	1658.2
27.5°	1183.4	1177.0	1172.6	1151.4	1144.2	1157.0	1258.8	1489.3	1792.4	1815.2	1772.0
30°	1310.4	1298.8	1292.4	1255.6	1229.7	1231.7	1317.9	1542.4	1911.0	1947.8	1893.1
32.5°	1483.7	1465.7	1448.5	1388.3	1340.7	1325.1	1394.2	1615.9	2039.6	2098.4	2028.1
35°	1677.8	1663.5	1645.0	1552.0	1478.9	1443.0	1497.3	1718.5	2190.2	2283.3	2191.8
37.5°	1864.7	1852.4	1861.1	1735.7	1641.4	1589.2	1632.3	1856.3	2376.0	2513.3	2397.1
40°	2058.0	2048.5	2049.6	1929.8	1820.0	1761.3	1796.0	2029.3	2588.7	2786.9	2643.9
42.5°	2268.1	2260.9	2237.0	2130.7	2007.3	1952.6	1984.5	2229.0	2817.2	3098.4	2914.7
45°	2503.4	2499.0	2476.6	2354.7	2213.4	2151.9	2195.0	2449.4	3046.9	3391.5	3186.6
47.5°	2706.6	2710.2	2707.4	2604.7	2458.2	2368.0	2419.4	2679.5	3260.5	3667.1	3447.5
50°	2804.5	2823.3	2850.8	2818.9	2727.7	2635.9	2645.9	2901.5	3464.2	3925.5	3697.5
52.5°	2753.4	2788.9	2864.0	2915.1	2950.3	2931.1	2904.3	3121.9	3656.0	4158.7	3934.0
55°	2562.8	2612.7	2737.4	2860.8	3040.0	3179.4	3214.6	3366.4	3842.8	4364.0	4157.6
57.5°	2215.7	2296.8	2408.6	2658.2	2960.2	3299.7	3576.4	3705.5	4041.0	4583.3	4391.6
60°	1620.7	1729.3	1868.3	2239.7	2680.7	3235.4	3884.3	4226.3	4322.5	4867.2	4696.3
62.5°	1037.2	1104.3	1232.0	1582.0	2088.7	2905.9	3978.6	4877.3	4799.8	5333.0	5153.2
65°	710.1	753.3	870.2	1066.7	1350.3	2163.1	3726.2	5365.3	5557.8	6071.0	5934.4
67.5°	516.0	548.8	648.6	820.7	879.9	1280.0	2891.5	5342.9	6294.6	6831.4	6618.9
70°	376.2	399.3	483.3	648.6	676.9	712.1	1751.7	4541.8	6278.6	7033.6	6779.1
72.5°	278.8	294.8	351.1	503.2	548.0	480.8	867.0	3300.9	5395.2	6361.8	6157.7
75°	201.7	213.7	255.2	385.0	438.5	366.2	432.6	1929.0	3763.4	4475.0	4511.0
77.5°	154.2	163.4	190.5	282.0	351.1	274.8	268.3	887.4	1784.4	1793.2	1893.9
80°	123.8	129.8	144.5	198.5	269.2	205.7	175.0	358.2	564.0	477.2	500.8
82.5°	91.0	101.1	122.2	139.4	192.5	141.8	106.6	180.9	214.4	184.5	186.1
85°	52.0	58.7	73.9	99.8	123.0	86.7	61.1	80.3	99.8	81.9	73.1
87.5°	18.3	24.0	25.9	39.2	53.5	36.0	23.6	23.2	32.8	24.4	20.4
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: P961317
 CATALOG NUMBER: NAV-SB2A-722-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5
2.5°	1111.5	1109.5	1101.5	1090.7	1079.5	1068.8	1065.2	1057.6	1052.4	1049.6	1052.8
5°	1133.9	1127.5	1108.6	1084.8	1059.5	1032.4	1013.2	995.7	982.9	970.9	975.7
7.5°	1165.8	1154.6	1122.3	1080.4	1035.6	990.5	956.9	931.3	914.2	903.0	905.4
10°	1202.9	1185.7	1136.2	1073.6	1004.4	939.7	900.2	878.2	867.5	861.5	863.0
12.5°	1245.7	1221.3	1150.7	1058.0	956.9	883.0	855.9	849.5	849.9	850.2	851.1
15°	1298.4	1264.4	1162.2	1024.0	895.0	839.5	834.7	845.1	855.9	861.1	860.7
17.5°	1357.9	1309.9	1164.2	968.1	834.4	811.5	826.8	849.1	865.5	872.7	874.2
20°	1421.8	1356.3	1149.8	889.0	784.4	788.7	815.9	844.7	862.6	871.9	874.2
22.5°	1494.9	1405.8	1115.5	806.0	743.6	764.0	796.0	823.9	842.7	851.9	854.2
25°	1578.4	1461.3	1061.6	736.1	708.5	736.1	768.0	791.2	806.4	814.8	817.1
27.5°	1671.1	1519.3	989.6	680.5	677.7	707.4	733.7	751.6	759.6	766.0	768.4
30°	1764.0	1571.9	902.6	638.6	651.0	679.0	697.7	705.7	708.1	709.3	712.1
32.5°	1864.7	1617.4	811.2	603.8	625.5	651.4	662.6	666.1	655.0	647.4	649.7
35°	1986.6	1666.2	721.7	576.4	600.2	622.6	626.3	623.0	609.9	594.3	595.1
37.5°	2137.1	1726.9	650.2	556.8	576.7	591.5	587.1	586.3	587.5	569.1	570.3
40°	2321.6	1806.0	597.9	541.6	557.5	560.8	548.4	555.1	561.1	533.2	533.9
42.5°	2526.5	1901.5	564.8	531.2	541.6	533.9	514.8	522.3	521.6	484.8	484.4
45°	2735.3	2005.3	553.2	523.6	526.7	511.6	490.5	492.4	475.7	442.5	443.7
47.5°	2943.1	2116.7	560.4	517.2	508.4	491.3	474.9	466.1	441.4	416.6	416.6
50°	3146.7	2233.8	586.7	504.4	483.3	473.2	461.2	445.7	419.3	398.2	396.6
52.5°	3335.7	2351.6	616.2	483.3	451.7	457.7	450.1	432.1	406.2	384.6	385.0
55°	3514.5	2469.3	627.8	454.1	422.1	444.1	439.7	406.6	375.5	357.8	356.3
57.5°	3709.5	2611.2	615.0	417.0	398.2	428.6	411.7	375.0	357.0	343.9	342.7
60°	3979.5	2833.6	587.5	371.0	375.5	405.4	376.6	361.4	341.8	327.1	326.3
62.5°	4427.9	3248.5	543.1	325.5	348.7	371.0	359.9	344.7	324.7	310.4	310.4
65°	5090.9	3825.3	459.7	290.0	318.7	337.4	341.8	326.7	306.0	290.8	291.5
67.5°	5650.0	4187.1	347.9	260.3	287.9	310.4	322.7	307.9	286.0	271.2	271.6
70°	5619.3	3924.3	265.6	231.2	260.8	283.5	299.5	287.9	264.3	250.4	251.6
72.5°	4991.0	3282.9	214.8	201.7	233.2	255.6	274.8	266.0	242.0	228.5	228.5
75°	3666.7	2330.4	171.7	171.7	198.8	226.4	247.6	242.0	220.1	210.4	207.7
77.5°	1545.6	977.6	134.6	142.6	165.3	194.5	220.9	222.8	203.7	215.7	195.7
80°	410.9	269.6	102.6	112.2	129.8	160.5	192.1	191.3	170.6	159.4	148.2
82.5°	156.5	106.2	73.1	79.0	93.9	123.0	152.2	156.9	136.2	117.8	117.8
85°	60.3	45.5	45.1	47.6	54.7	81.5	115.0	119.0	102.6	87.0	89.9
87.5°	15.6	13.5	16.8	16.0	25.1	43.6	65.9	68.3	62.7	36.4	52.0
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)