

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: P961839

Luminaire Tested: **NAV-SB2B-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6962.8 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

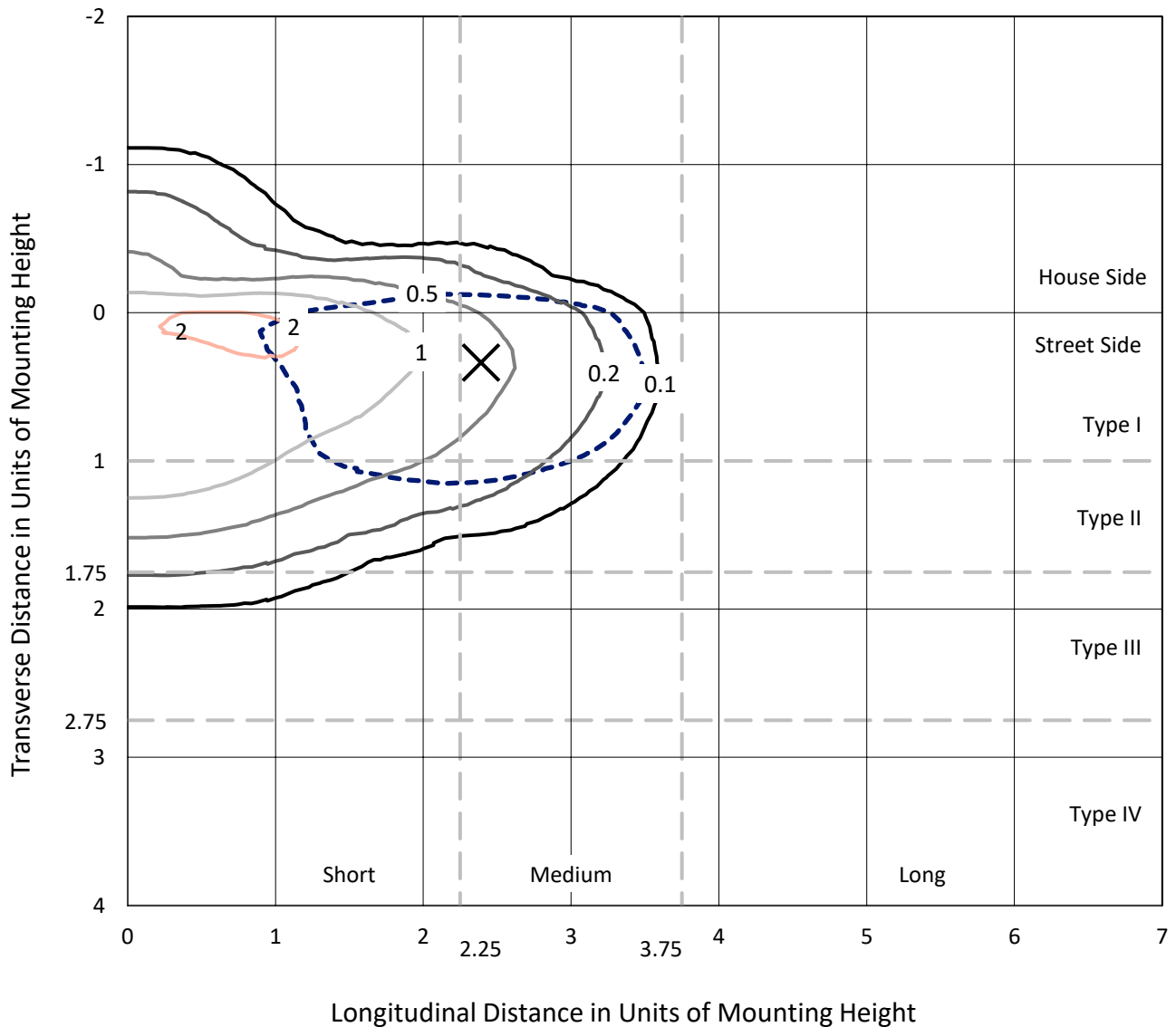
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961839
 CATALOG NUMBER: NAV-SB2B-722-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

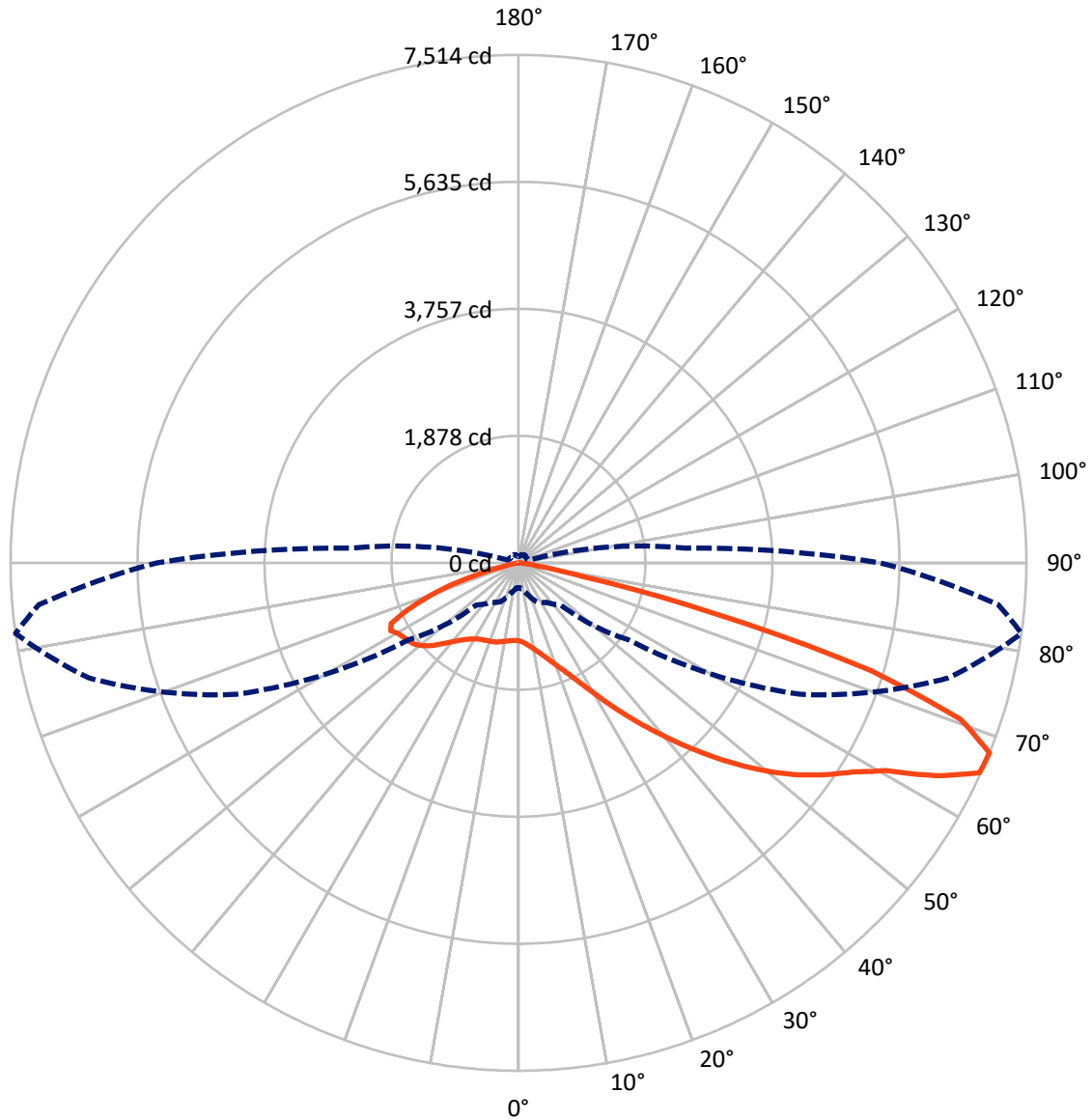
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P961839
CATALOG NUMBER: NAV-SB2B-722-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P961839

CATALOG NUMBER: NAV-SB2B-722-U-T2-HSS

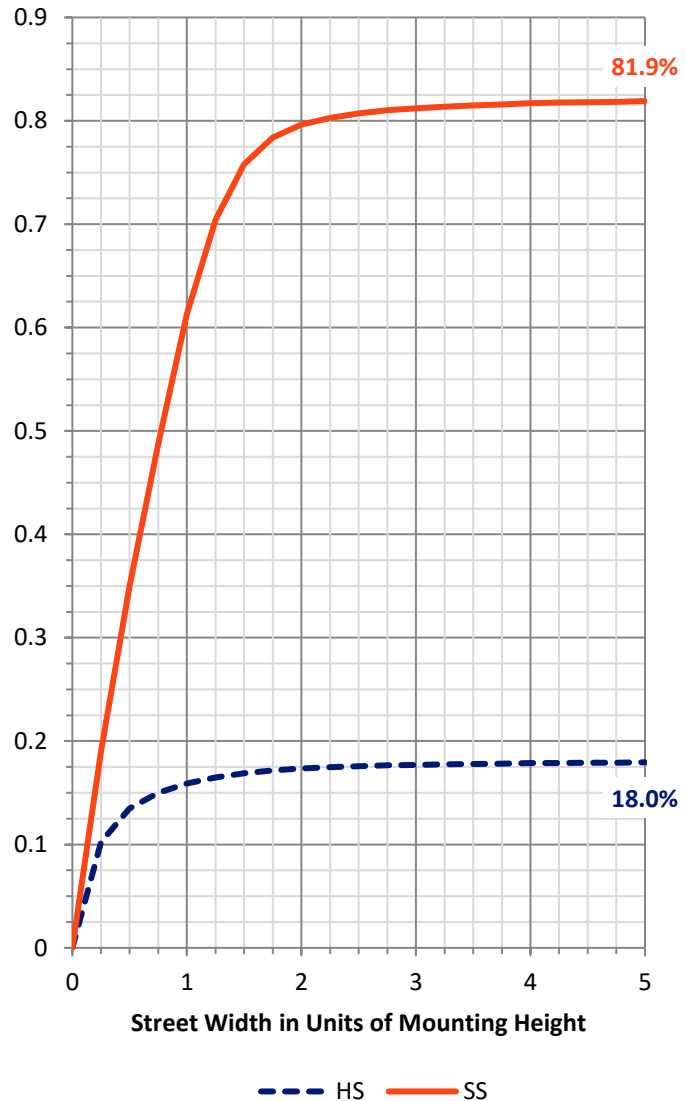
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1261.3	0.0	1261.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5701.6	0.0	5701.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	6962.8	0.0	6962.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	1.5
10°-20°	267.1	3.8
20°-30°	427.7	6.1
30°-40°	756.4	10.9
40°-50°	1325.2	19.0
50°-60°	1767.5	25.4
60°-70°	1645.4	23.6
70°-80°	631.5	9.1
80°-90°	39.2	0.6
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°	6962.8	100.0
0°-180°	6962.8	100.0

Coefficient of Utilization



REPORT NUMBER: P961839

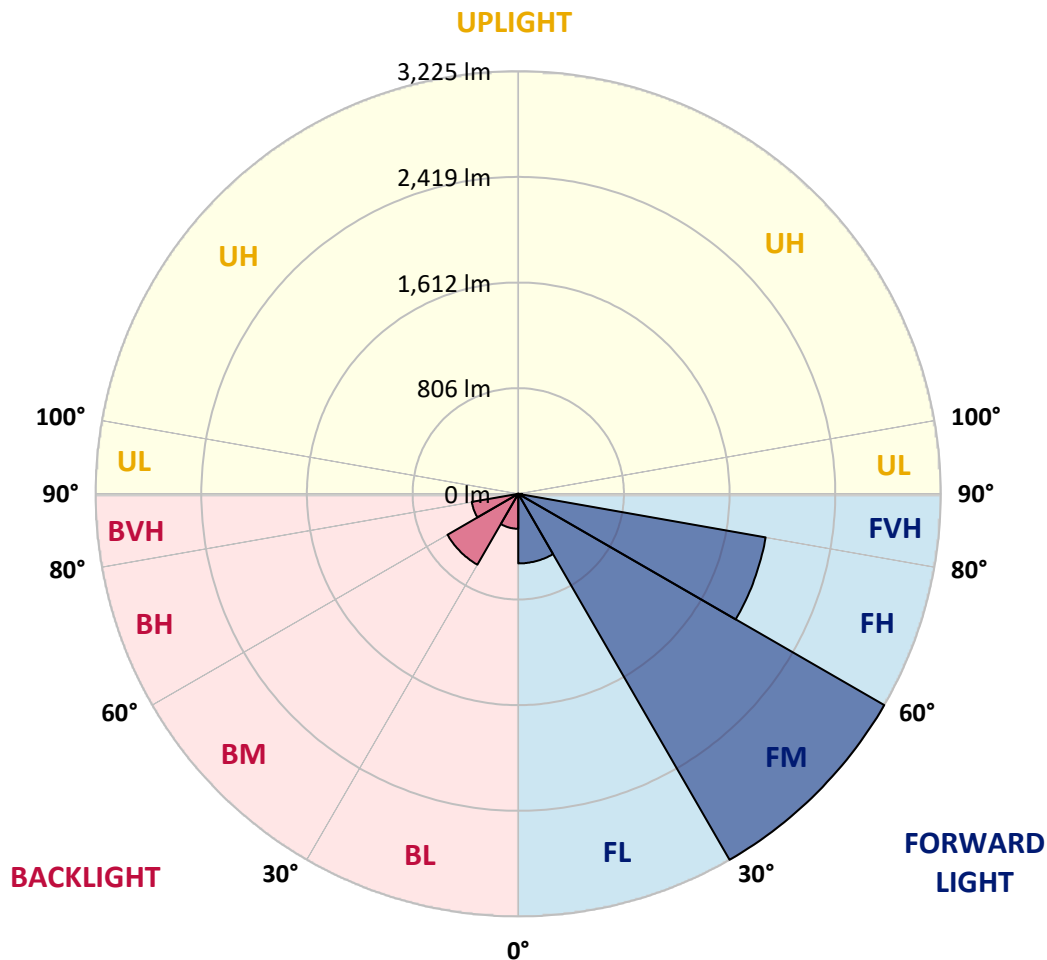
CATALOG NUMBER: NAV-SB2B-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.2	7.6			
FM (30°-60°)	3224.9	46.3			
FH (60°-80°)	1917.0	27.5			G2/5000
FVH (80°-90°)	28.5	0.4			G1/100
BL (0°-30°)	266.4	3.8	B1/500		
BM (30°-60°)	624.2	9.0	B1/1000		
BH (60°-80°)	360.0	5.2	B1/500		G1/500
BVH (80°-90°)	10.7	0.2			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 II Medium



REPORT NUMBER: P961839
 CATALOG NUMBER: NAV-SB2B-722-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5
2.5°	1219.1	1226.2	1222.2	1220.2	1216.7	1211.7	1207.7	1195.1	1182.0	1173.5	1170.6
5°	1243.7	1250.8	1250.3	1252.2	1254.8	1256.2	1255.3	1241.3	1222.7	1208.2	1199.7
7.5°	1222.7	1230.7	1237.2	1247.2	1264.7	1283.3	1292.3	1289.3	1270.3	1250.3	1239.7
10°	1163.1	1171.6	1187.1	1210.6	1247.7	1287.8	1321.4	1337.0	1324.9	1302.9	1288.3
12.5°	1053.7	1062.3	1092.9	1144.0	1206.1	1275.8	1340.0	1381.6	1384.6	1362.5	1345.5
15°	930.9	939.4	972.0	1036.2	1131.0	1242.7	1350.0	1428.7	1455.3	1436.2	1415.7
17.5°	854.7	862.2	886.8	938.5	1037.2	1176.6	1346.5	1478.9	1539.6	1524.5	1499.9
20°	831.7	838.1	849.7	885.8	968.0	1107.9	1323.5	1526.0	1630.3	1621.8	1594.2
22.5°	856.2	862.2	865.7	881.8	933.5	1062.7	1294.4	1574.1	1735.5	1736.6	1702.9
25°	912.9	918.9	914.9	925.0	947.5	1048.8	1283.3	1630.8	1867.9	1878.9	1840.8
27.5°	1006.1	1006.7	997.1	996.6	1000.1	1069.8	1294.9	1691.5	2034.8	2055.3	2008.2
30°	1193.1	1185.6	1149.0	1109.4	1091.3	1132.9	1327.0	1763.1	2231.8	2268.4	2209.3
32.5°	1481.3	1470.4	1403.1	1308.4	1213.2	1234.7	1384.6	1844.8	2446.4	2512.6	2440.3
35°	1794.2	1791.2	1721.0	1580.1	1413.7	1379.5	1478.4	1952.1	2680.5	2785.7	2700.1
37.5°	2085.0	2083.4	2043.3	1877.4	1674.8	1581.6	1628.7	2092.4	2931.1	3083.5	2982.2
40°	2350.6	2355.1	2315.1	2166.6	1962.6	1840.8	1833.3	2265.9	3209.9	3407.9	3287.6
42.5°	2580.2	2585.3	2544.7	2434.9	2246.9	2127.6	2084.4	2478.4	3482.0	3756.3	3613.9
45°	2736.1	2767.2	2761.1	2673.5	2538.6	2414.8	2386.2	2745.2	3792.4	4125.7	3958.9
47.5°	2780.2	2808.8	2853.9	2866.0	2783.8	2661.9	2696.1	3066.5	4106.2	4495.8	4305.7
50°	2671.5	2698.0	2791.8	2916.6	2973.7	2936.1	2997.3	3410.9	4427.5	4864.6	4646.1
52.5°	2456.9	2484.0	2602.3	2799.8	3032.9	3151.2	3299.6	3750.3	4738.9	5214.1	4968.5
55°	2146.6	2175.2	2327.1	2550.6	2920.1	3239.9	3551.7	4089.1	5024.0	5528.4	5259.2
57.5°	1724.5	1745.6	1903.4	2216.3	2636.4	3151.7	3737.8	4459.2	5292.8	5837.2	5547.4
60°	1123.9	1142.5	1325.9	1674.8	2166.1	2857.0	3774.9	4871.7	5649.7	6238.8	5936.0
62.5°	747.4	759.9	868.8	1124.9	1525.5	2291.0	3557.8	5201.1	6173.1	6937.6	6602.2
65°	512.8	525.4	634.2	812.6	985.5	1515.5	2933.7	5157.4	6647.3	7492.5	7096.0
67.5°	365.9	376.5	468.7	637.1	713.4	880.3	1988.7	4600.0	6579.2	7513.6	7122.5
70°	262.2	268.2	344.4	496.3	566.9	528.9	1105.9	3518.2	5760.5	6938.0	6580.1
72.5°	183.5	185.5	239.1	378.0	456.7	386.0	526.3	2345.6	4356.9	5445.7	5101.3
75°	124.3	126.8	160.9	277.3	366.4	294.8	278.7	1257.8	2557.7	3014.3	2702.0
77.5°	76.2	77.2	103.7	189.5	274.2	224.6	179.5	532.9	989.5	971.5	828.2
80°	43.2	43.2	66.2	117.8	187.0	144.8	125.9	226.6	313.3	275.2	242.6
82.5°	24.1	24.6	48.2	73.2	123.8	85.7	69.2	104.8	135.4	119.8	104.2
85°	10.0	11.1	29.6	34.5	59.1	42.6	28.1	44.1	50.1	44.6	32.6
87.5°	1.0	1.5	9.0	6.6	7.0	8.5	4.0	8.5	7.0	7.0	5.0
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: P961839
 CATALOG NUMBER: NAV-SB2B-722-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5	1153.5
2.5°	1161.0	1153.5	1134.5	1112.4	1083.3	1069.3	1050.2	1037.2	1026.1	1027.2	1017.1
5°	1183.6	1164.5	1122.0	1068.8	1002.7	955.5	905.4	870.7	842.7	836.7	823.2
7.5°	1214.6	1184.6	1109.9	1014.1	902.3	817.6	741.9	693.3	658.7	647.7	636.6
10°	1254.8	1211.1	1094.4	945.5	784.5	676.8	595.5	557.5	533.9	525.8	519.9
12.5°	1301.3	1241.7	1073.8	861.7	663.3	559.4	507.8	488.8	481.2	478.8	477.2
15°	1360.1	1279.8	1042.7	762.5	560.5	487.8	465.8	463.2	464.2	463.2	462.7
17.5°	1429.8	1321.4	992.1	660.2	491.3	451.2	443.1	445.2	447.6	447.2	446.2
20°	1505.9	1362.5	927.4	569.5	444.1	425.1	420.6	422.6	424.6	423.6	423.1
22.5°	1592.6	1406.7	855.8	498.8	412.6	401.1	396.1	396.6	396.6	394.5	393.5
25°	1696.4	1455.3	780.5	448.6	388.5	379.5	373.5	371.5	368.5	362.4	361.4
27.5°	1820.2	1507.0	708.4	413.6	369.5	360.9	353.9	348.9	341.4	331.4	330.4
30°	1959.6	1569.6	647.2	391.5	354.4	345.9	337.8	330.4	319.3	306.8	305.8
32.5°	2123.5	1636.7	602.6	377.0	340.9	331.9	322.4	313.3	301.2	288.7	289.3
35°	2319.1	1718.0	576.5	367.0	330.4	318.4	307.8	297.8	288.7	277.7	276.8
37.5°	2531.1	1804.2	568.5	361.9	323.4	304.8	292.7	285.8	284.7	278.2	277.7
40°	2763.2	1906.5	574.5	359.0	315.8	291.7	278.7	277.3	279.7	268.2	268.7
42.5°	3008.9	2027.8	584.6	355.5	305.2	278.7	266.2	266.2	264.1	248.2	248.2
45°	3274.6	2167.7	594.5	346.9	292.7	265.7	256.1	252.7	244.2	228.6	228.1
47.5°	3542.2	2310.0	602.1	331.4	277.7	254.7	246.1	238.1	225.6	211.6	211.0
50°	3796.4	2437.9	594.1	308.3	260.7	244.2	235.1	224.1	210.5	201.0	199.6
52.5°	4023.4	2548.7	560.0	281.3	242.6	233.1	225.1	213.5	202.5	192.5	191.5
55°	4221.0	2638.4	499.8	255.6	226.6	223.6	215.6	201.0	185.9	177.4	176.5
57.5°	4410.5	2706.5	424.6	234.6	212.1	213.1	201.0	188.0	173.9	164.9	163.9
60°	4662.6	2797.7	348.4	215.0	196.5	199.6	186.4	176.9	159.4	147.9	146.4
62.5°	5065.7	2939.7	276.8	191.0	178.5	179.5	173.9	162.5	141.3	127.8	126.8
65°	5385.6	2887.5	218.0	164.9	158.0	159.4	159.4	146.9	124.3	108.8	107.3
67.5°	5349.5	2472.4	173.9	139.4	138.4	139.4	142.9	132.3	110.3	97.8	95.7
70°	4927.8	1966.7	139.4	115.8	120.3	117.8	127.8	120.8	99.2	86.7	85.2
72.5°	4021.0	1416.7	106.3	95.7	92.2	96.2	115.3	108.8	82.7	68.7	67.1
75°	2349.6	755.9	79.2	75.7	66.6	80.3	102.3	92.8	63.1	50.6	49.1
77.5°	765.0	263.7	58.1	55.7	49.6	64.7	87.2	78.2	51.7	40.1	38.6
80°	205.0	79.7	39.6	36.6	32.1	48.2	69.2	62.1	37.1	26.0	25.5
82.5°	82.2	33.6	23.1	20.6	17.5	33.1	54.6	50.1	27.6	16.5	16.5
85°	26.5	11.1	8.5	6.6	8.0	20.6	32.6	34.1	19.6	8.5	6.6
87.5°	3.5	1.5	1.5	2.0	1.5	3.5	10.0	9.5	5.5	1.0	0.0
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)