

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: P960796

Luminaire Tested: **NAV-SB1D-722-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960796  
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-SB1D-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

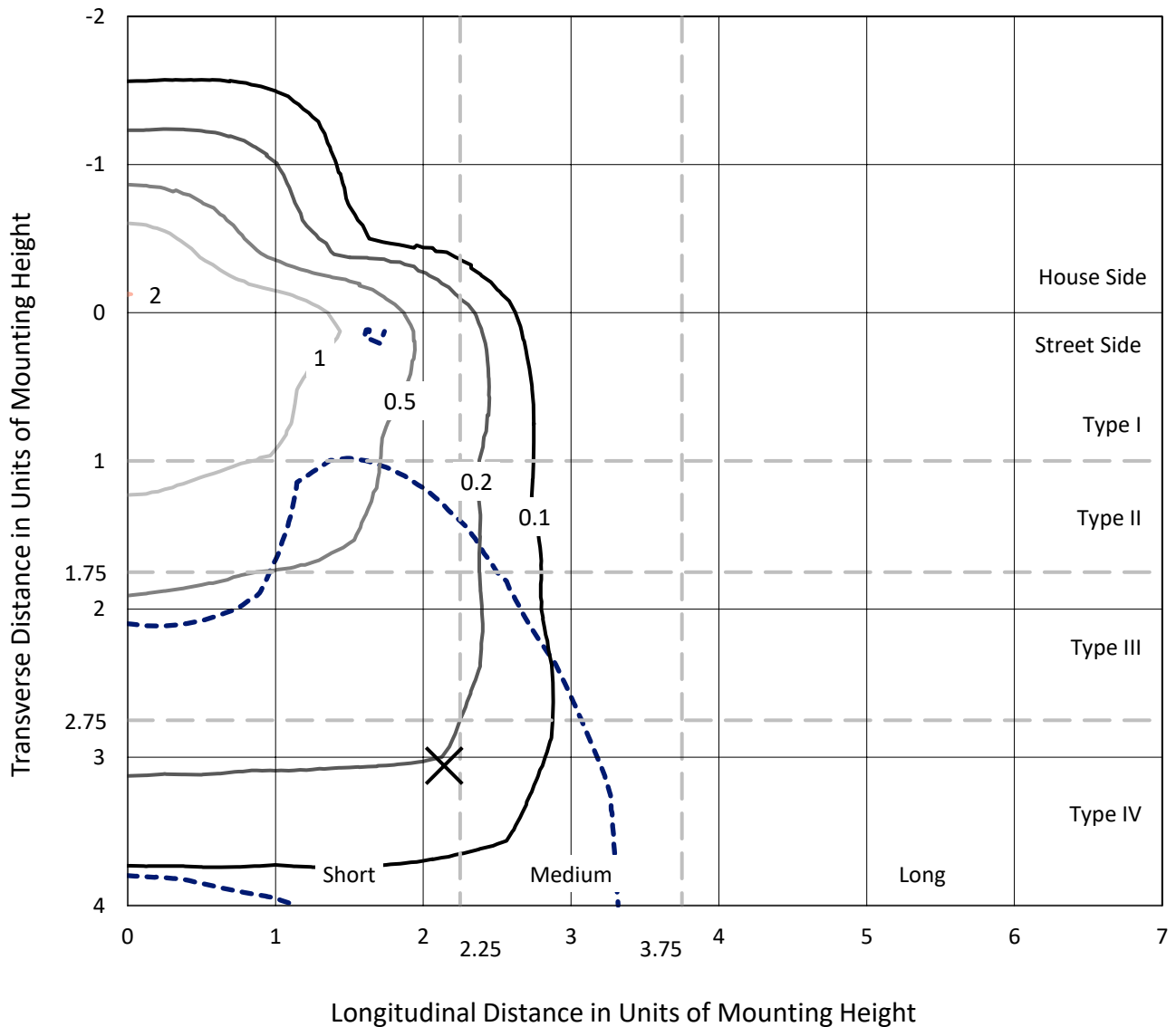
Lumens per Lamp: N/A  
Luminaire Lumens: 8518.8 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

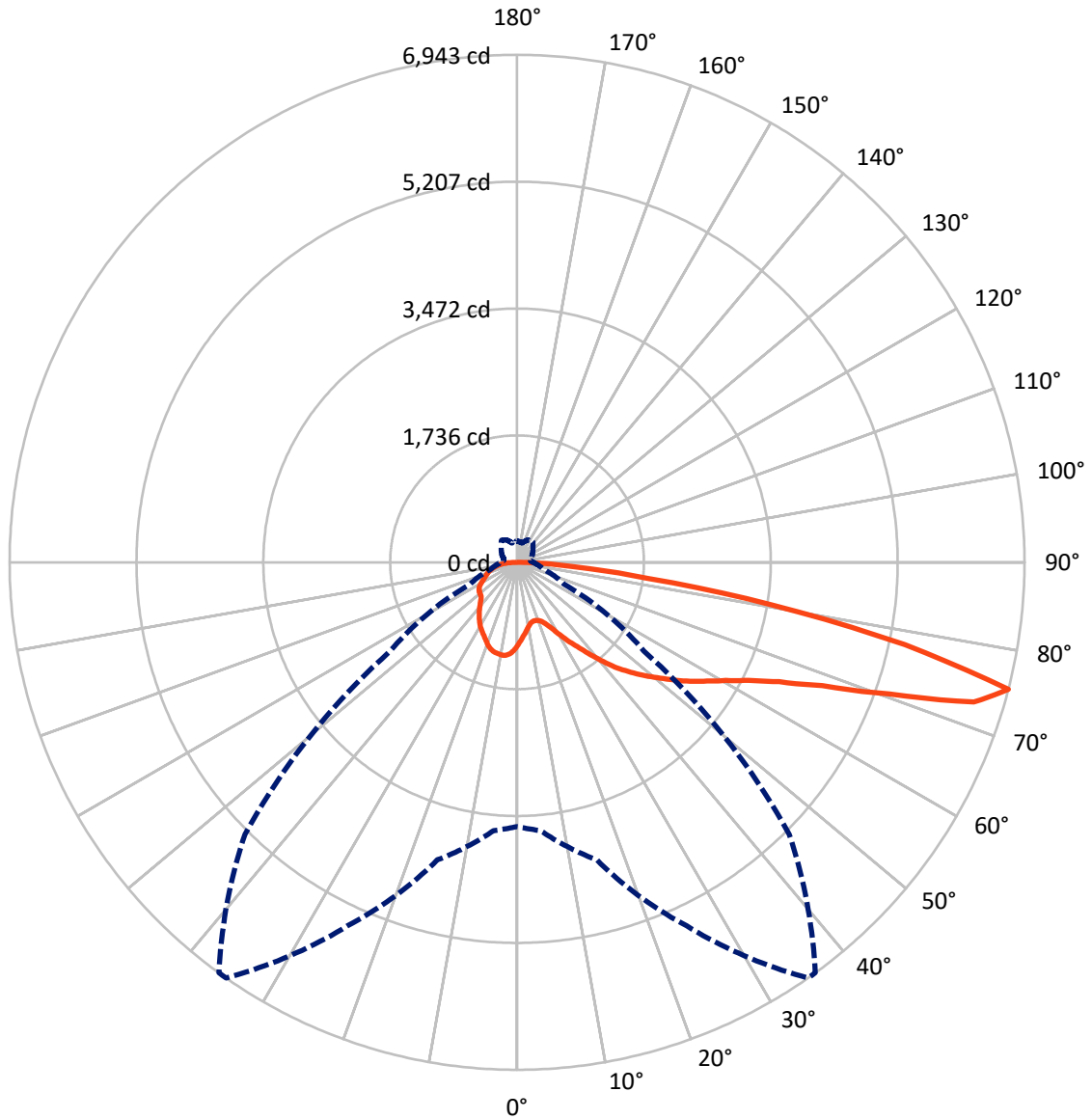
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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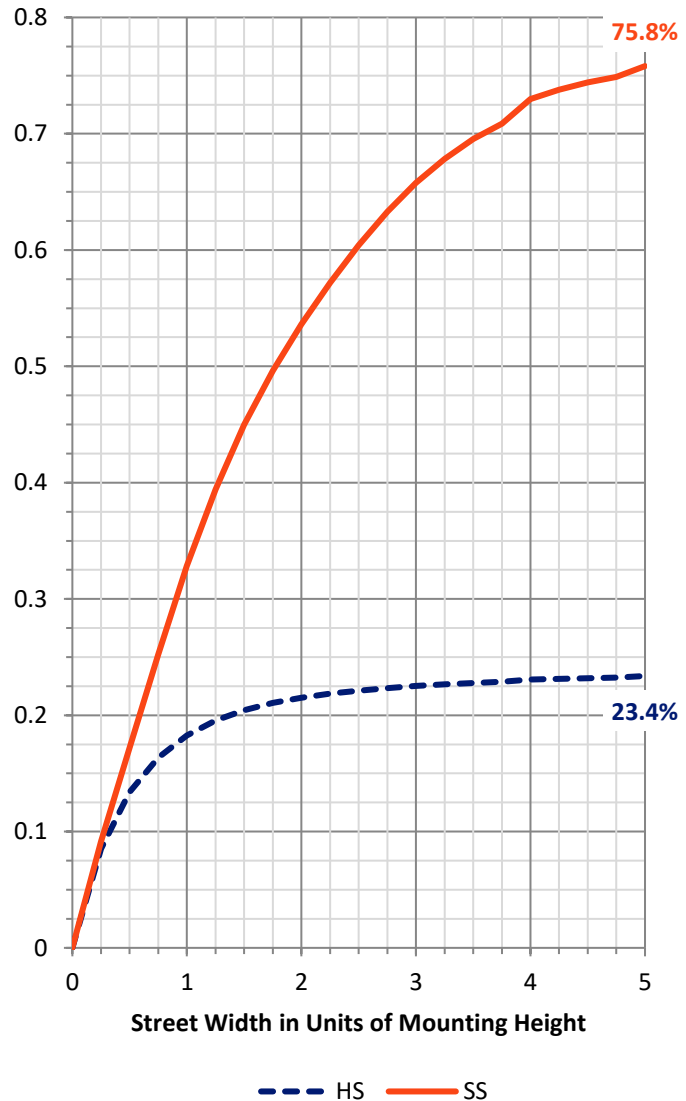
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2027.2	0.0	2027.2
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	6491.5	0.0	6491.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	8518.8	0.0	8518.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	1.3
10°-20°	310.0	3.6
20°-30°	520.6	6.1
30°-40°	809.1	9.5
40°-50°	1200.9	14.1
50°-60°	1657.9	19.5
60°-70°	2011.4	23.6
70°-80°	1662.3	19.5
80°-90°	239.1	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°	8518.8	100.0
0°-180°	8518.8	100.0

**Coefficient of Utilization**

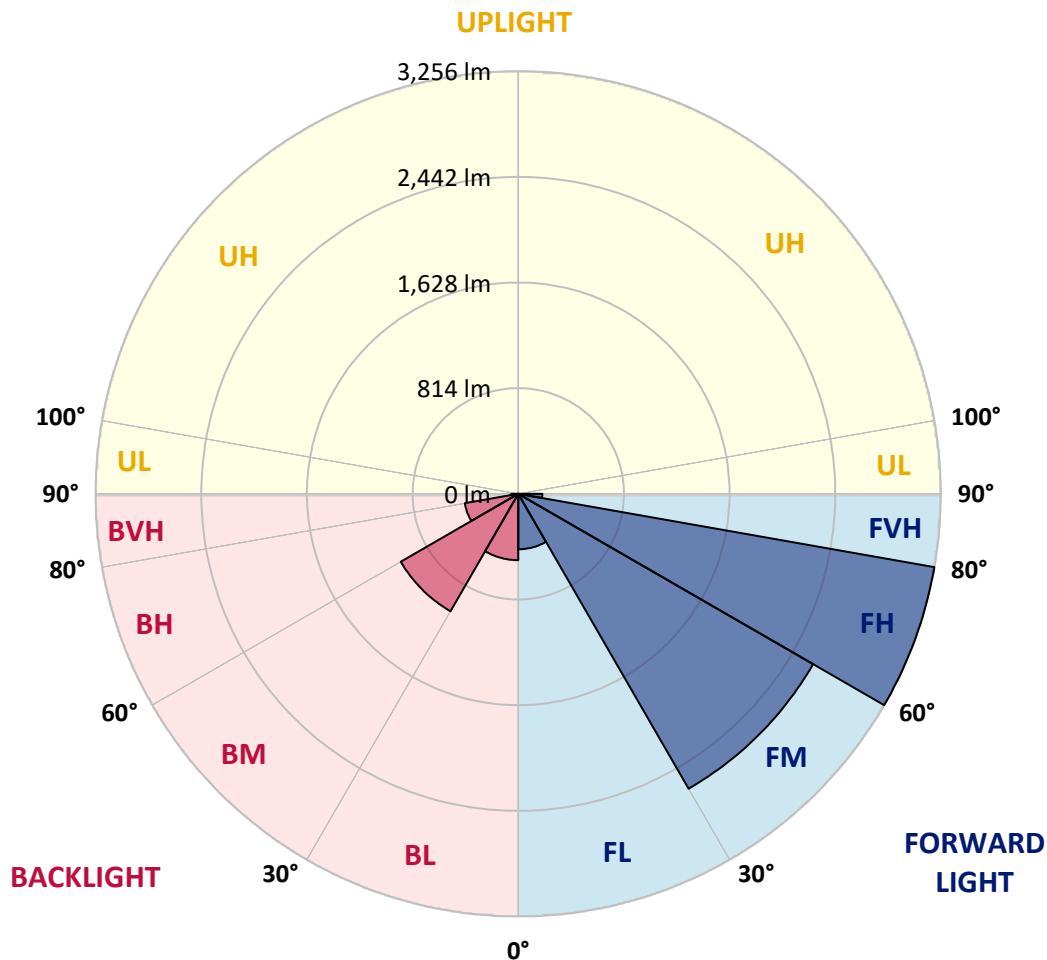


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.2	5.0			
FM (30°-60°)	2623.3	30.8			
FH (60°-80°)	3255.7	38.2			G2/5000
FVH (80°-90°)	185.3	2.2			G2/225
BL (0°-30°)	510.9	6.0	B2/1000		
BM (30°-60°)	1044.6	12.3	B2/2500		
BH (60°-80°)	418.0	4.9	B1/500		G1/500
BVH (80°-90°)	53.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2
2.5°	1046.7	1053.2	1056.0	1054.6	1061.5	1060.6	1070.2	1082.2	1098.8	1114.9	1138.4
5°	966.2	973.0	979.1	984.6	997.9	1002.1	1017.3	1040.3	1070.7	1101.6	1140.2
7.5°	891.1	897.1	906.3	916.5	939.0	943.1	968.5	1004.4	1046.7	1091.9	1145.3
10°	829.8	835.9	845.5	857.0	885.1	890.2	922.4	970.4	1025.6	1082.7	1150.9
12.5°	803.6	805.4	811.0	822.5	846.9	850.1	885.6	940.3	1004.8	1075.7	1159.2
15°	802.3	806.0	806.4	812.3	832.6	834.0	866.7	921.1	992.0	1074.4	1171.6
17.5°	816.0	818.8	814.7	818.4	835.4	837.7	863.5	911.8	987.8	1080.4	1192.8
20°	852.9	855.2	842.8	837.7	850.1	852.0	877.3	917.8	992.0	1092.9	1221.8
22.5°	931.2	932.5	902.2	881.4	882.3	883.2	905.4	942.2	1008.1	1115.4	1258.6
25°	1053.2	1052.3	1003.9	963.9	940.8	935.8	950.5	981.8	1035.2	1145.3	1306.1
27.5°	1196.0	1189.1	1140.7	1080.9	1030.6	1023.3	1020.1	1033.4	1073.9	1184.9	1364.1
30°	1357.2	1350.7	1298.7	1220.4	1150.9	1138.9	1108.4	1101.6	1131.5	1238.8	1444.6
32.5°	1534.0	1529.8	1467.7	1372.8	1279.8	1266.0	1214.8	1196.5	1220.0	1320.3	1557.0
35°	1682.3	1678.6	1627.0	1529.4	1415.6	1398.6	1346.5	1325.8	1337.8	1424.9	1704.0
37.5°	1816.3	1814.5	1770.3	1693.3	1575.9	1555.1	1496.7	1489.7	1487.5	1562.5	1882.1
40°	1940.6	1936.0	1890.0	1849.4	1762.4	1743.5	1692.0	1685.9	1668.5	1732.0	2083.8
42.5°	2078.3	2066.4	1999.6	1980.7	1957.2	1941.6	1910.7	1911.6	1873.0	1923.1	2297.5
45°	2190.7	2183.8	2115.2	2104.1	2129.4	2123.0	2149.7	2156.6	2081.6	2123.5	2519.6
47.5°	2311.4	2304.9	2246.9	2239.0	2307.7	2309.5	2403.9	2406.2	2285.1	2331.6	2742.0
50°	2460.1	2450.9	2393.4	2403.0	2479.9	2486.9	2659.5	2643.9	2472.5	2543.0	2962.6
52.5°	2558.2	2563.7	2551.3	2566.9	2672.0	2678.4	2911.0	2870.9	2658.1	2751.6	3178.9
55°	2630.5	2641.5	2680.3	2716.1	2874.6	2881.1	3148.1	3086.9	2812.0	2945.0	3382.5
57.5°	2723.5	2707.8	2780.2	2850.1	3067.1	3084.1	3378.8	3295.1	2948.2	3111.7	3522.1
60°	2857.1	2846.0	2902.2	3005.8	3282.6	3309.7	3623.0	3482.4	3048.1	3243.9	3549.3
62.5°	3127.9	3100.2	3108.9	3200.7	3554.3	3590.3	3898.3	3645.9	3098.0	3295.5	3403.7
65°	3532.7	3485.2	3441.0	3504.6	3937.0	3972.5	4209.2	3774.5	3079.5	3195.5	3017.3
67.5°	4042.5	3995.4	3941.1	4001.0	4500.7	4528.8	4592.8	3846.7	2934.5	2810.5	2334.3
70°	4463.0	4445.4	4510.3	4756.7	5401.0	5402.0	5084.6	3786.9	2537.0	1992.7	1350.7
72.5°	4407.2	4396.6	4738.8	5500.5	6535.7	6511.3	5550.2	3333.7	1709.0	898.9	506.1
75°	3615.6	3684.2	4214.2	5487.1	6943.2	6940.1	5265.1	2119.3	706.9	372.6	261.6
77.5°	1938.8	2047.4	2735.9	4051.2	5420.3	5501.9	3701.7	741.5	303.5	238.5	181.0
80°	632.3	727.1	1090.5	2062.7	3522.1	3506.8	1586.5	291.1	207.7	169.0	125.3
82.5°	268.4	279.5	487.2	974.0	1807.6	1779.5	505.2	167.2	146.0	115.6	77.4
85°	105.0	117.5	215.0	450.4	782.9	765.9	182.3	82.9	93.5	75.5	46.0
87.5°	34.5	41.9	76.9	154.3	243.6	234.8	44.7	28.6	40.5	34.5	16.6
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°	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2	1135.2
2.5°	1144.8	1152.2	1161.0	1173.8	1184.9	1194.1	1203.8	1209.8	1212.1	1219.0	1218.5
5°	1153.1	1169.2	1190.9	1212.1	1232.8	1245.3	1256.3	1261.9	1266.9	1270.6	1271.5
7.5°	1167.0	1187.7	1221.8	1249.4	1266.9	1277.0	1284.4	1282.6	1284.4	1285.4	1286.7
10°	1179.0	1208.0	1248.4	1274.7	1288.1	1288.5	1286.7	1280.2	1277.0	1277.5	1278.4
12.5°	1193.2	1225.5	1269.2	1291.3	1295.0	1284.8	1277.0	1266.0	1261.9	1260.0	1259.1
15°	1212.6	1249.4	1291.8	1300.0	1290.9	1278.0	1264.5	1246.6	1237.4	1230.1	1232.4
17.5°	1236.0	1276.5	1309.2	1303.3	1283.5	1262.3	1240.7	1213.5	1194.6	1186.7	1187.3
20°	1268.7	1305.1	1322.7	1296.3	1266.4	1234.2	1197.4	1164.2	1146.7	1138.9	1138.0
22.5°	1308.3	1343.4	1335.5	1284.4	1242.0	1190.4	1144.4	1120.0	1111.2	1105.7	1106.6
25°	1355.8	1385.7	1344.7	1266.9	1201.9	1132.4	1097.0	1089.2	1085.0	1080.9	1080.9
27.5°	1417.5	1433.6	1351.7	1241.1	1139.3	1070.7	1057.8	1059.2	1057.8	1050.9	1052.3
30°	1499.0	1495.8	1358.1	1199.1	1067.5	1015.0	1015.9	1021.9	1022.8	1018.2	1020.5
32.5°	1606.3	1573.6	1361.3	1144.8	998.9	966.2	967.1	973.5	978.2	970.4	974.0
35°	1736.1	1664.3	1356.3	1076.7	945.9	919.6	912.8	914.6	915.9	908.6	913.7
37.5°	1887.6	1766.1	1333.6	1001.2	902.2	874.1	859.4	846.9	839.6	832.6	837.2
40°	2053.9	1877.1	1292.2	927.5	853.3	825.7	803.6	780.1	755.2	746.0	750.2
42.5°	2228.0	1991.3	1242.0	857.0	797.1	774.6	751.1	717.0	679.8	660.8	663.2
45°	2408.5	2108.2	1192.8	787.5	739.6	729.9	702.7	661.7	621.3	597.3	595.4
47.5°	2585.4	2218.8	1120.4	717.5	685.7	696.3	675.2	637.3	592.2	554.4	550.3
50°	2754.4	2322.4	1002.1	646.6	642.0	686.1	665.9	611.6	560.0	511.7	507.5
52.5°	2922.0	2406.2	850.5	582.1	618.5	683.4	653.9	594.1	530.9	480.3	474.8
55°	3064.3	2449.5	704.6	526.8	584.4	659.9	639.7	573.4	489.9	436.1	431.5
57.5°	3145.3	2414.5	583.0	472.5	537.4	621.3	615.2	529.1	441.2	399.7	394.2
60°	3110.4	2272.6	483.6	425.1	492.7	579.3	572.9	485.4	403.8	364.7	359.2
62.5°	2917.4	2002.3	404.8	383.7	452.2	536.5	530.5	451.8	375.4	337.5	331.6
65°	2528.7	1628.8	343.6	349.1	411.2	484.9	493.6	423.6	352.8	315.9	310.0
67.5°	1928.6	1179.9	295.6	319.2	371.2	434.3	459.6	403.4	333.8	298.9	293.4
70°	1099.3	670.0	255.1	290.2	335.7	387.3	433.4	387.3	313.6	284.6	281.0
72.5°	416.8	307.6	220.6	261.1	301.7	347.7	404.4	361.9	290.2	268.4	264.8
75°	222.4	187.5	185.6	227.0	262.5	309.0	368.0	337.1	272.6	283.7	292.8
77.5°	151.5	132.6	155.2	194.3	219.7	266.2	329.2	299.3	236.3	235.3	216.9
80°	105.0	94.0	126.2	156.6	169.9	223.9	287.4	257.0	192.5	179.6	171.8
82.5°	63.1	61.3	94.4	117.0	120.2	172.7	238.1	215.6	157.5	137.2	138.2
85°	34.5	36.4	60.4	68.6	70.0	120.6	186.5	166.7	121.2	101.8	102.7
87.5°	9.6	12.4	22.1	27.2	33.6	62.6	111.0	99.0	60.8	42.3	42.3
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)