

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: P960250

Luminaire Tested: **NAV-SB1C-722-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-722-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

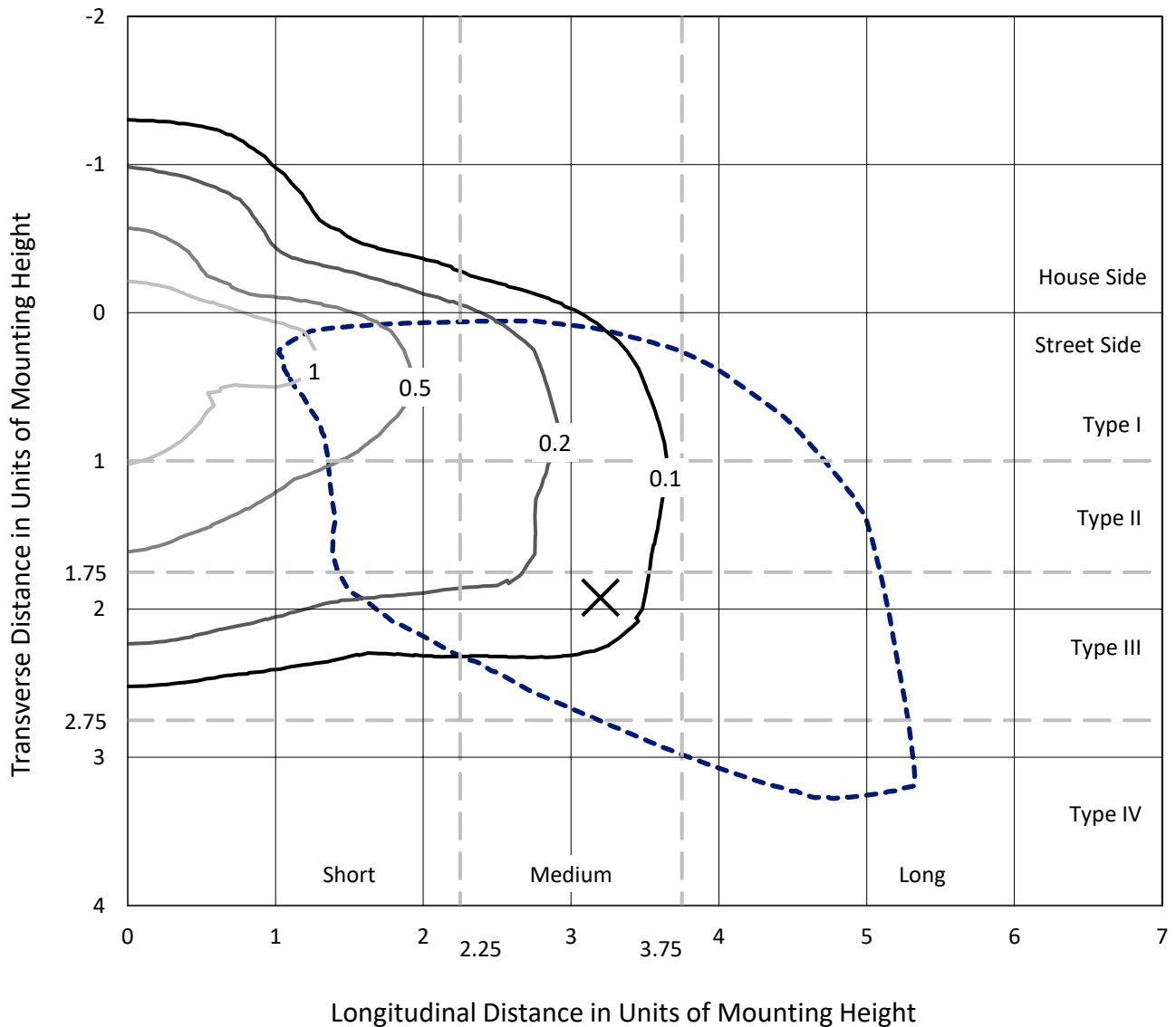
Lumens per Lamp: N/A  
Luminaire Lumens: 6199.2 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): 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

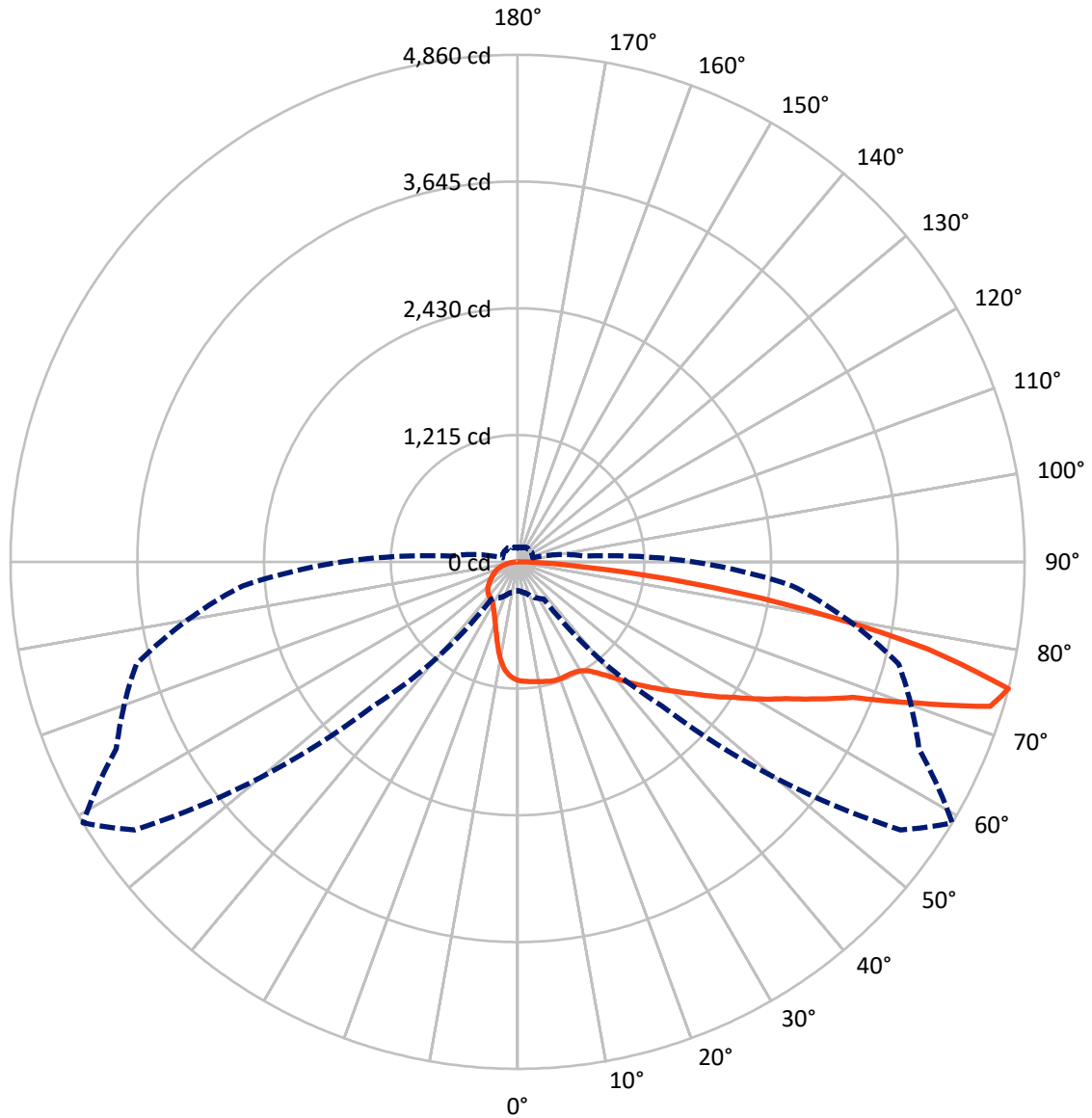
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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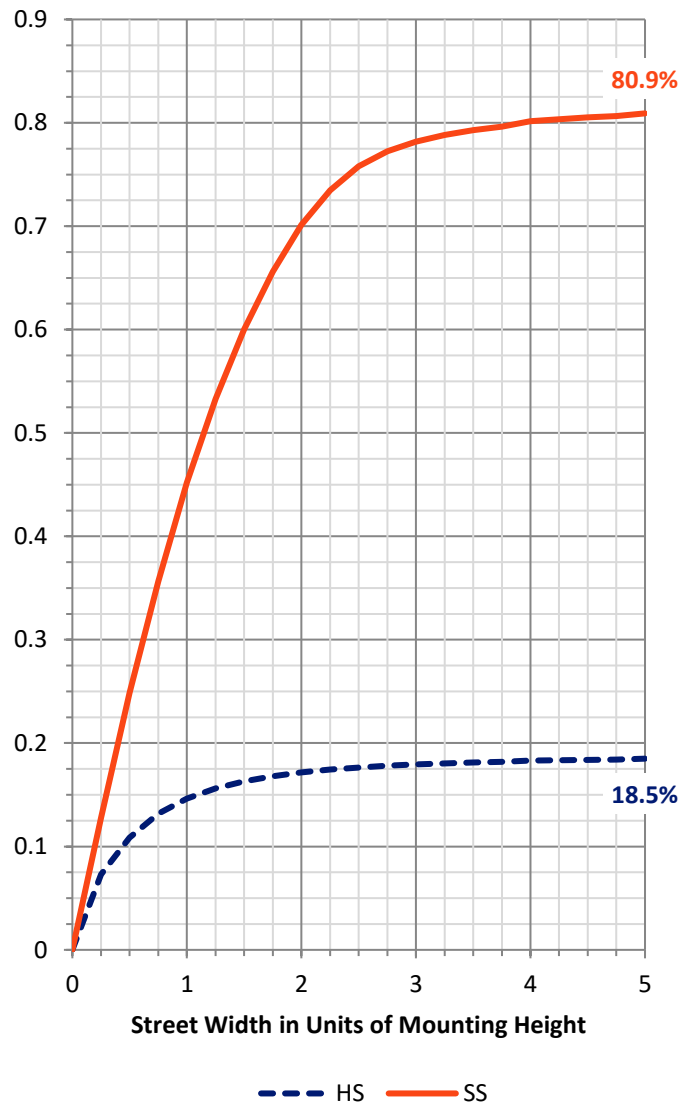
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1162.7	0.0	1162.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	5036.5	0.0	5036.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6199.2	0.0	6199.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.0	1.6
10°-20°	260.8	4.2
20°-30°	396.1	6.4
30°-40°	588.8	9.5
40°-50°	875.7	14.1
50°-60°	1188.6	19.2
60°-70°	1451.1	23.4
70°-80°	1138.8	18.4
80°-90°	197.3	3.2
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°	6199.2	100.0
0°-180°	6199.2	100.0

**Coefficient of Utilization**

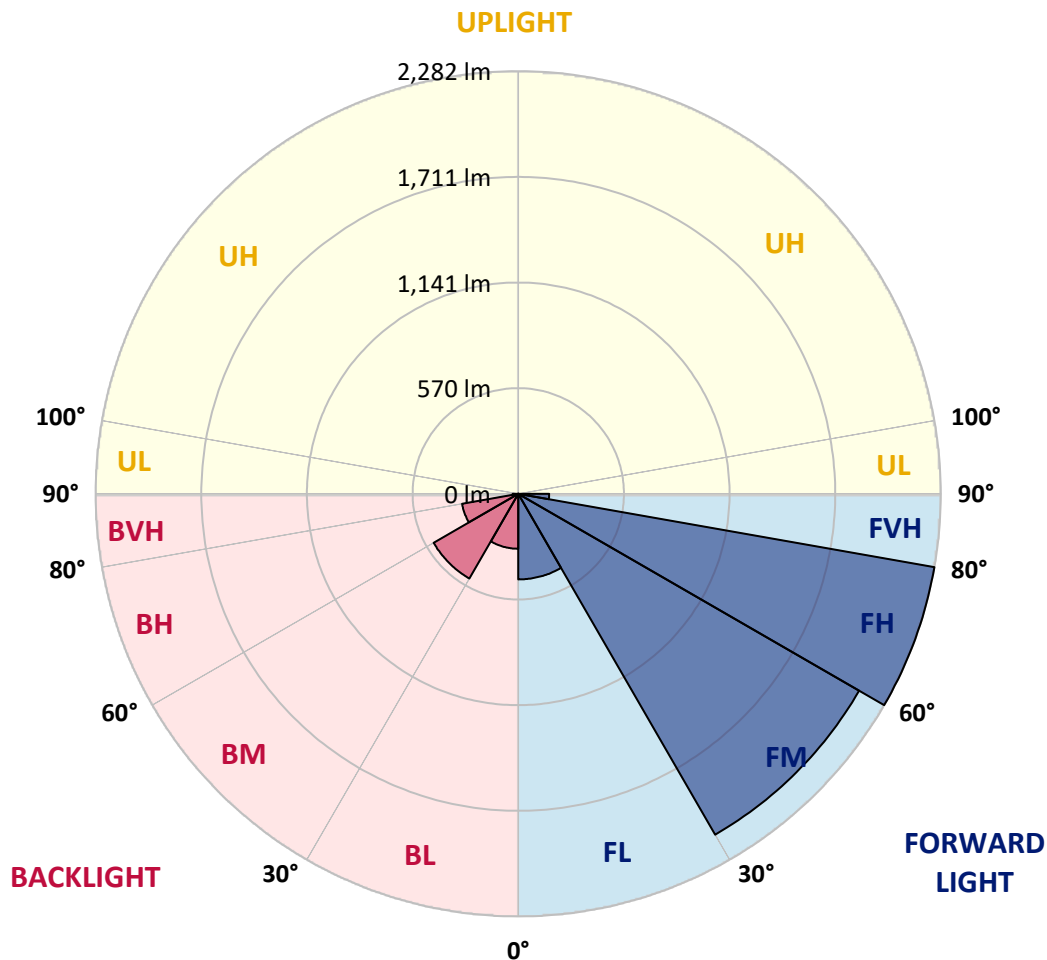


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.2	7.5			
FM (30°-60°)	2125.3	34.3			
FH (60°-80°)	2281.9	36.8			G2/5000
FVH (80°-90°)	167.1	2.7			G2/225
BL (0°-30°)	296.7	4.8	B1/500		
BM (30°-60°)	527.7	8.5	B1/1000		
BH (60°-80°)	308.0	5.0	B1/500		G1/500
BVH (80°-90°)	30.2	0.5			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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9
2.5°	1147.5	1143.5	1147.5	1145.8	1145.2	1143.9	1144.2	1146.6	1145.2	1146.9	1141.2
5°	1139.8	1137.5	1141.5	1140.5	1144.8	1145.5	1149.8	1152.5	1154.1	1154.6	1150.2
7.5°	1127.2	1124.8	1130.5	1135.2	1144.5	1147.2	1156.2	1160.5	1162.9	1166.9	1160.5
10°	1080.9	1079.8	1093.9	1111.5	1133.5	1147.2	1160.8	1168.2	1171.9	1182.5	1175.2
12.5°	998.8	1000.1	1018.4	1052.5	1096.5	1140.5	1166.2	1176.9	1182.5	1195.9	1192.6
15°	920.4	920.0	940.1	976.4	1038.1	1111.2	1168.9	1187.2	1196.9	1216.6	1213.9
17.5°	875.0	873.7	887.8	915.4	972.7	1066.1	1162.1	1192.9	1213.6	1238.2	1235.9
20°	866.7	864.1	871.4	885.1	925.8	1016.8	1144.8	1192.9	1226.9	1258.9	1257.6
22.5°	897.1	892.8	889.7	888.1	906.1	976.1	1125.1	1188.9	1246.6	1288.6	1286.3
25°	958.1	951.4	936.1	921.1	915.7	957.8	1107.8	1187.9	1275.9	1328.6	1319.9
27.5°	1056.8	1048.5	1017.4	981.4	949.0	967.1	1100.1	1193.9	1308.3	1370.9	1353.6
30°	1179.2	1170.2	1131.2	1075.8	1017.8	1001.8	1109.9	1211.6	1349.6	1427.3	1393.3
32.5°	1288.9	1278.9	1245.6	1189.2	1110.8	1061.8	1140.5	1245.3	1414.6	1505.7	1453.0
35°	1386.3	1374.6	1344.6	1292.6	1224.9	1146.2	1195.9	1304.9	1507.1	1633.0	1534.0
37.5°	1481.6	1468.0	1435.3	1380.3	1332.9	1258.6	1272.2	1381.6	1629.7	1787.8	1641.4
40°	1588.3	1568.8	1529.0	1474.7	1428.6	1390.3	1372.6	1475.7	1754.5	1960.5	1775.5
42.5°	1691.8	1673.1	1625.8	1579.4	1521.7	1510.6	1489.0	1585.7	1890.8	2150.3	1911.5
45°	1803.2	1780.8	1723.4	1664.8	1628.4	1590.7	1601.8	1695.8	2024.6	2343.8	2054.3
47.5°	1907.5	1882.5	1814.9	1749.5	1729.5	1658.0	1705.1	1816.8	2163.7	2539.8	2195.7
50°	1963.9	1939.2	1882.8	1823.8	1808.2	1741.2	1817.1	1949.9	2309.4	2735.2	2331.4
52.5°	2010.9	1984.2	1910.5	1877.9	1873.2	1831.5	1955.2	2102.0	2455.1	2908.0	2462.5
55°	2061.0	2031.2	1937.2	1907.8	1929.3	1932.8	2119.0	2274.4	2609.1	3076.4	2586.2
57.5°	2118.7	2081.0	1962.9	1933.3	1983.9	2051.6	2307.1	2453.1	2760.6	3232.4	2696.3
60°	2173.0	2135.0	2012.3	1973.5	2042.9	2189.3	2522.8	2669.5	2932.0	3371.5	2800.3
62.5°	2183.7	2152.3	2051.6	2051.2	2123.0	2350.0	2778.3	2887.9	3081.8	3508.9	2893.7
65°	1999.0	1979.3	1919.5	2048.3	2237.7	2581.5	3062.7	3167.5	3272.1	3629.0	2975.7
67.5°	1521.4	1524.1	1519.7	1768.1	2145.0	2914.0	3474.5	3466.6	3507.2	3763.7	3070.1
70°	695.7	711.3	813.3	1220.6	1718.4	2952.3	4155.6	4051.8	3802.3	3938.2	3151.8
72.5°	375.9	387.9	429.6	591.2	1033.1	2624.8	4664.5	4738.2	4194.9	4055.5	3062.1
75°	275.8	282.5	311.5	375.9	433.9	1950.9	4482.0	4860.2	4243.9	3781.7	2644.2
77.5°	206.4	209.4	233.1	297.8	222.1	1028.5	3581.2	4025.2	3633.0	3107.1	1953.2
80°	149.8	153.0	170.8	223.4	155.7	376.2	2459.1	2825.3	2488.1	1980.6	973.4
82.5°	103.4	104.8	112.3	152.1	108.8	146.1	1395.3	1656.7	1389.0	694.9	262.8
85°	62.3	64.1	67.3	88.7	61.7	69.4	602.3	623.0	415.2	166.0	81.7
87.5°	25.7	27.4	30.0	37.3	24.4	19.4	99.4	124.7	77.7	48.7	25.3
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°	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9
2.5°	1139.5	1137.1	1130.9	1122.2	1114.2	1104.1	1099.8	1096.1	1092.9	1086.5	1083.5
5°	1146.6	1140.2	1123.2	1101.2	1076.1	1048.8	1022.1	1003.8	988.1	976.4	966.8
7.5°	1157.2	1145.2	1114.2	1069.2	1011.8	953.1	900.1	862.4	834.0	823.7	805.6
10°	1168.2	1153.8	1099.8	1020.5	921.4	831.1	760.7	722.0	699.4	692.0	680.6
12.5°	1181.2	1160.2	1077.5	952.7	820.4	721.3	660.0	637.2	625.7	621.7	622.6
15°	1200.2	1165.5	1043.8	868.1	724.0	641.2	601.6	585.9	579.9	579.6	581.0
17.5°	1214.5	1166.6	991.5	777.4	650.0	593.0	560.3	554.2	558.2	564.3	566.6
20°	1230.5	1157.5	922.7	694.6	598.0	550.6	536.9	540.9	550.6	559.2	562.2
22.5°	1241.9	1141.2	839.7	630.3	552.9	526.2	525.6	533.9	539.3	543.6	545.9
25°	1251.9	1113.5	751.6	576.3	515.9	511.6	518.9	516.2	512.6	516.2	518.5
27.5°	1259.2	1069.8	673.0	528.9	489.8	501.5	497.2	491.2	490.9	492.9	496.2
30°	1256.9	1011.5	608.2	483.9	471.5	482.9	472.5	471.5	470.6	471.5	475.2
32.5°	1256.9	945.0	558.6	452.8	459.9	455.5	454.6	452.2	448.2	447.8	452.2
35°	1263.9	878.7	515.9	436.2	450.2	439.8	440.5	434.9	426.5	422.5	426.5
37.5°	1278.3	825.3	473.6	428.2	433.2	432.9	430.2	420.6	405.9	393.2	397.5
40°	1312.9	809.7	444.5	424.6	425.2	429.2	422.2	403.5	370.1	349.5	352.2
42.5°	1367.2	836.1	438.2	415.5	419.8	423.8	410.2	366.8	343.2	330.8	330.8
45°	1436.3	882.1	451.9	402.5	407.2	414.2	373.5	352.8	342.1	342.5	344.2
47.5°	1523.7	930.4	477.2	391.1	388.9	392.9	349.1	336.5	321.8	325.4	334.9
50°	1624.7	979.5	501.2	375.9	368.5	355.5	333.5	321.4	302.8	294.2	296.4
52.5°	1734.1	1026.8	510.9	357.2	346.4	331.5	322.8	308.1	285.5	271.1	270.8
55°	1837.8	1069.8	500.2	334.9	324.5	312.8	311.5	302.5	278.1	258.1	258.1
57.5°	1935.9	1105.9	473.6	312.1	302.2	295.1	304.1	299.8	269.2	243.4	242.1
60°	2018.9	1130.5	434.9	289.2	282.1	278.5	292.1	290.8	256.5	227.8	226.7
62.5°	2085.0	1140.2	392.2	267.1	265.5	258.8	275.4	275.4	240.5	212.4	211.5
65°	2136.6	1130.9	348.8	245.5	248.8	238.8	255.1	253.1	223.4	198.7	197.4
67.5°	2182.3	1100.1	300.8	224.1	231.8	219.1	233.8	229.1	204.8	185.1	183.8
70°	2202.6	1028.8	246.1	202.7	212.1	199.8	212.4	203.8	183.8	170.5	167.8
72.5°	2039.2	855.1	193.7	180.4	188.4	178.5	189.4	179.4	161.0	155.1	150.1
75°	1687.0	641.6	149.0	156.1	162.1	154.4	161.7	154.4	137.8	142.1	129.8
77.5°	1225.2	433.2	114.1	130.4	133.0	129.0	135.4	127.1	112.0	111.0	106.1
80°	609.3	253.8	89.4	103.0	102.1	99.4	106.7	102.7	90.0	95.4	94.4
82.5°	176.4	108.8	65.0	72.4	70.3	71.0	76.4	78.4	117.4	116.3	119.1
85°	55.4	42.6	39.1	40.4	38.3	39.4	45.0	89.4	82.7	48.4	52.4
87.5°	14.3	14.7	9.6	10.4	10.7	12.7	14.3	54.3	26.0	17.0	18.0
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)