

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: P961325

Luminaire Tested: **NAV-SB2A-722-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2A-722-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7580.9 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

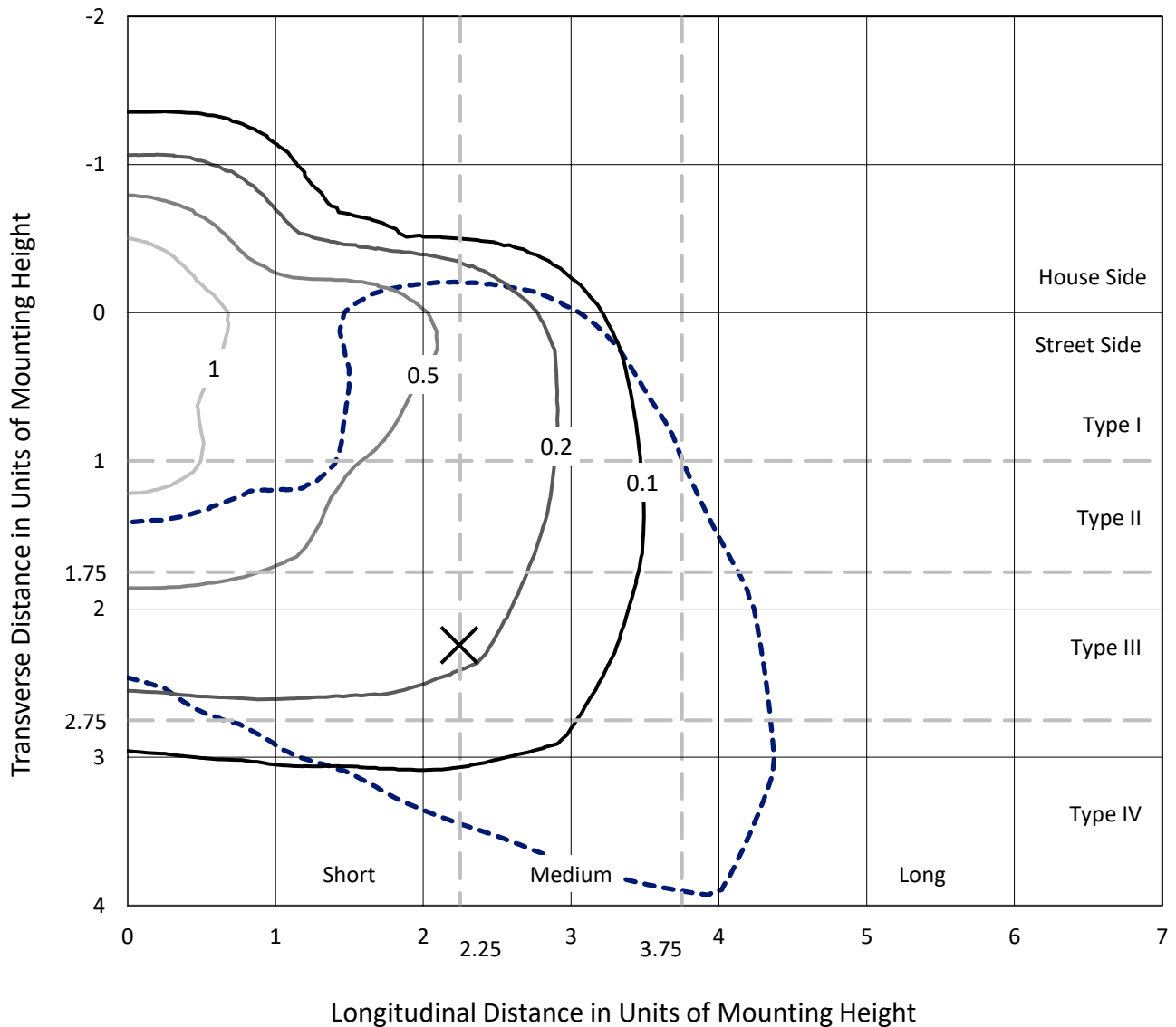
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P961325  
 CATALOG NUMBER: NAV-SB2A-722-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

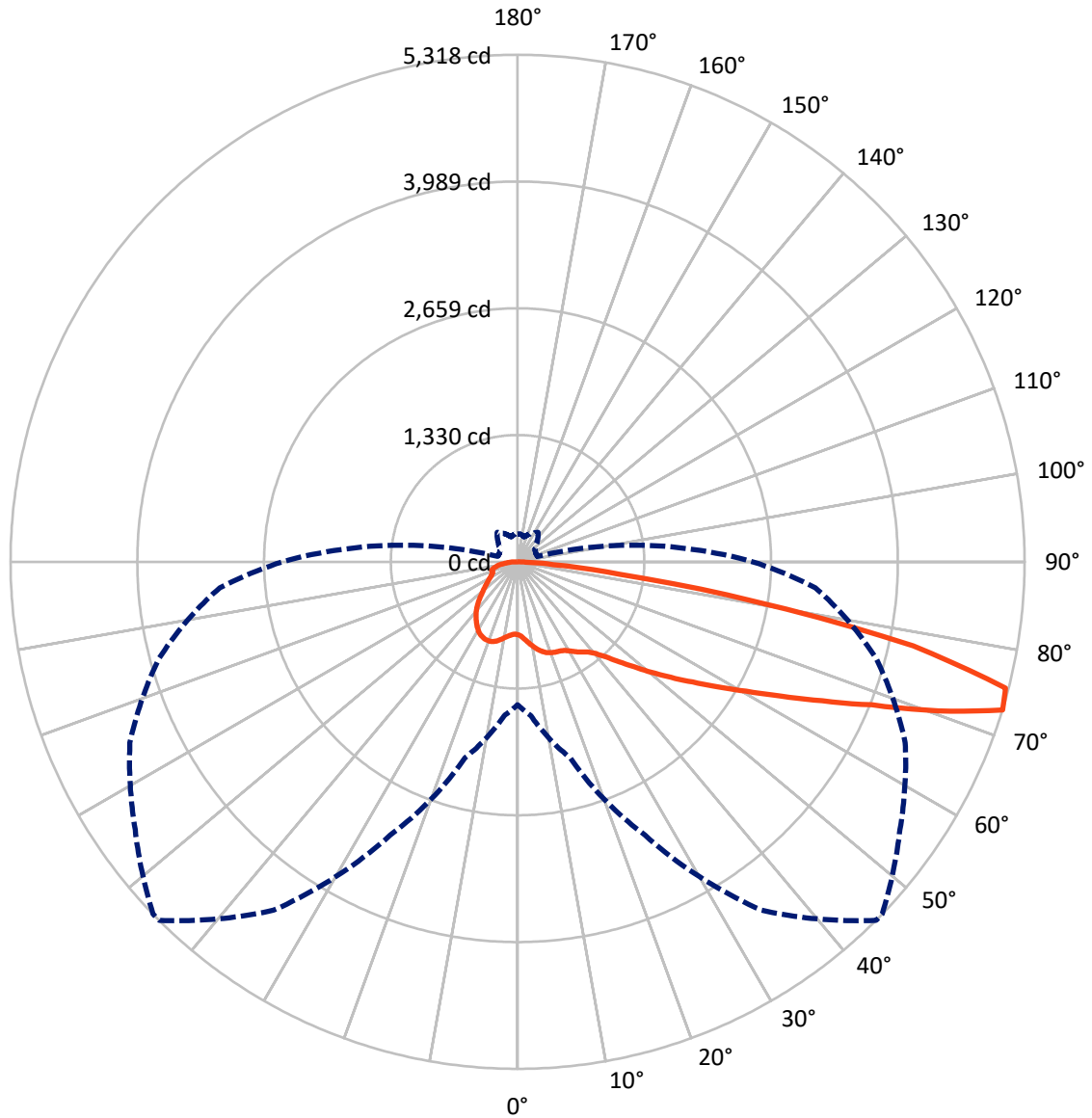
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P961325  
CATALOG NUMBER: NAV-SB2A-722-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P961325  
 CATALOG NUMBER: NAV-SB2A-722-U-T4W

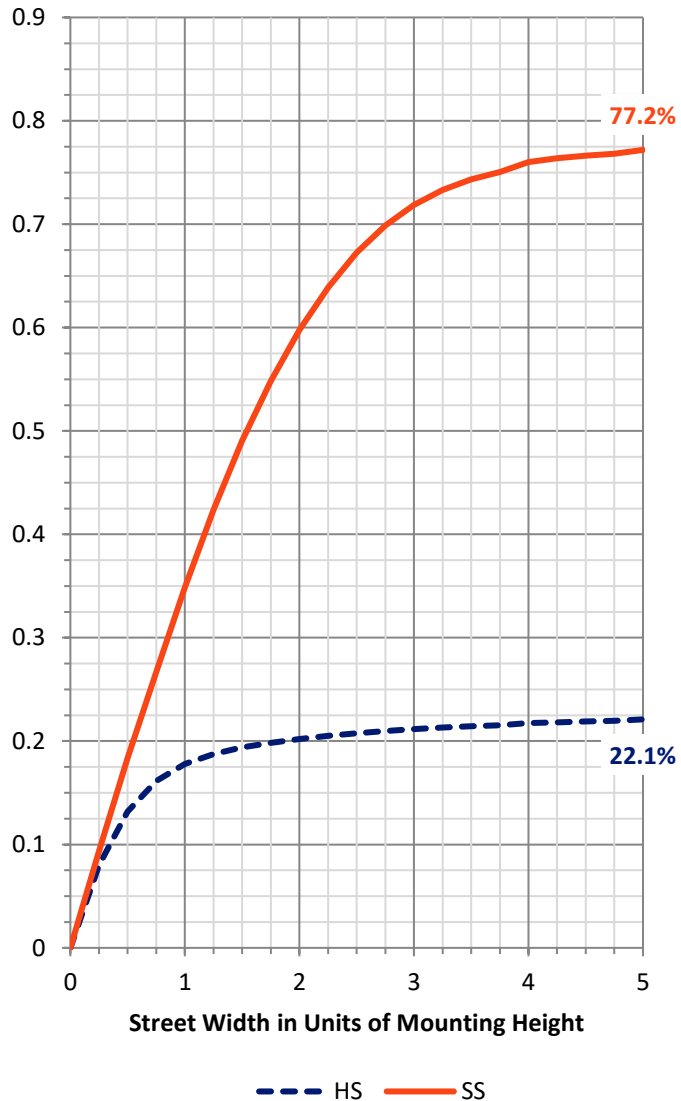
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1713.8	0.0	1713.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	5867.1	0.0	5867.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	7580.9	0.0	7580.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.8	1.0
10°-20°	259.5	3.4
20°-30°	451.5	6.0
30°-40°	647.2	8.5
40°-50°	911.3	12.0
50°-60°	1395.8	18.4
60°-70°	2022.0	26.7
70°-80°	1614.7	21.3
80°-90°	201.1	2.7
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°	7580.9	100.0
0°-180°	7580.9	100.0

**Coefficient of Utilization**



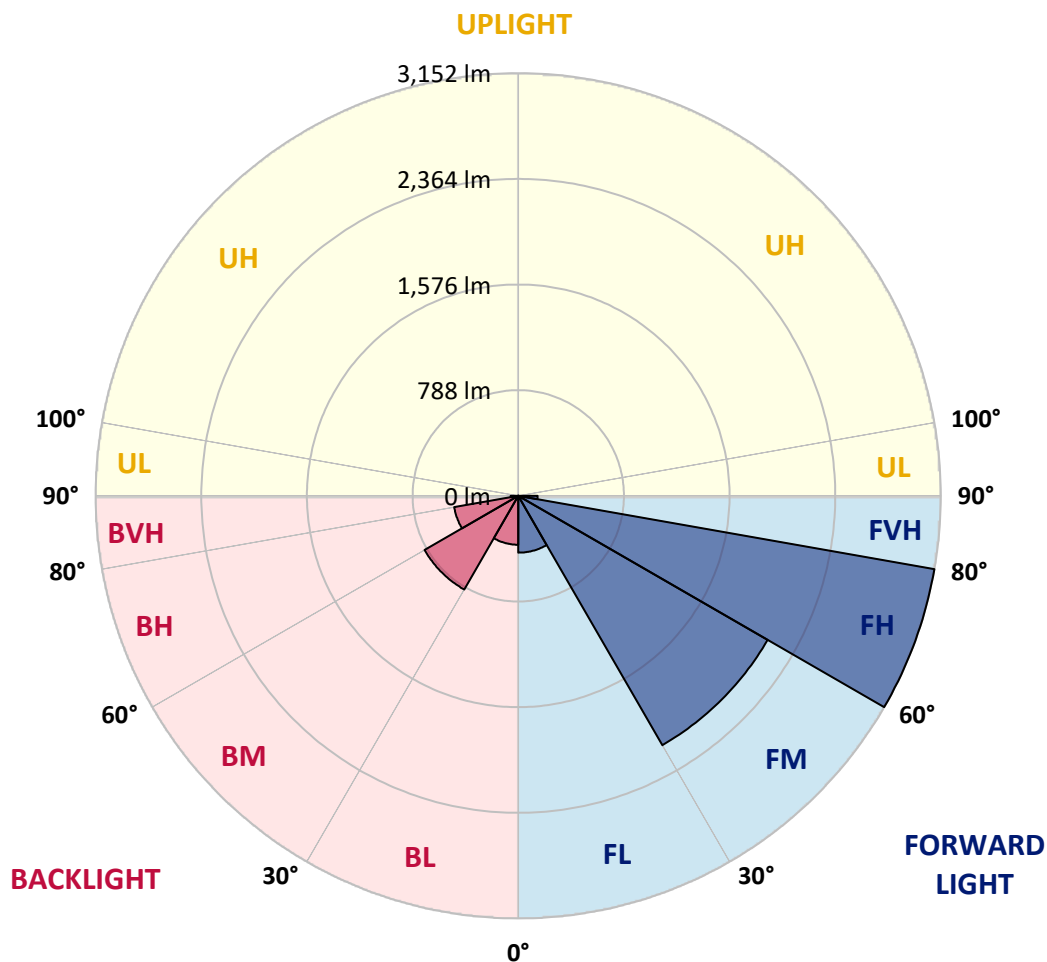
REPORT NUMBER: P961325  
 CATALOG NUMBER: NAV-SB2A-722-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.9	5.6			
FM (30°-60°)	2147.3	28.3			
FH (60°-80°)	3151.6	41.6			G2/5000
FVH (80°-90°)	144.3	1.9			G2/225
BL (0°-30°)	364.9	4.8	B1/500		
BM (30°-60°)	807.0	10.6	B1/1000		
BH (60°-80°)	485.1	6.4	B1/500		G1/500
BVH (80°-90°)	56.8	0.7			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



REPORT NUMBER: P961325  
 CATALOG NUMBER: NAV-SB2A-722-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8
2.5°	794.7	799.9	795.1	790.7	788.7	783.5	783.1	779.9	778.0	772.3	770.8
5°	850.2	857.0	849.0	840.2	832.3	819.5	817.8	808.7	798.3	786.4	779.5
7.5°	913.0	918.9	909.7	896.6	882.5	861.4	861.0	844.2	827.9	807.5	795.9
10°	967.6	975.6	963.3	945.3	927.7	903.7	901.0	881.8	861.0	834.7	817.1
12.5°	1016.0	1021.5	1009.5	987.6	967.2	943.3	939.7	918.5	895.3	865.4	843.1
15°	1054.3	1061.5	1045.5	1021.9	1000.4	976.8	973.6	954.5	931.3	899.7	870.9
17.5°	1079.4	1085.5	1069.1	1042.7	1021.9	1002.3	1000.0	984.0	963.6	931.7	901.0
20°	1089.1	1095.4	1078.3	1051.5	1032.4	1017.1	1016.0	1004.4	990.4	961.2	930.1
22.5°	1098.6	1104.6	1082.3	1054.3	1037.5	1028.0	1027.6	1020.0	1014.3	990.4	960.0
25°	1137.3	1139.0	1109.0	1068.7	1044.7	1036.4	1036.0	1035.6	1037.9	1019.2	992.4
27.5°	1171.0	1170.6	1144.9	1107.0	1069.9	1052.3	1051.9	1055.9	1063.4	1047.9	1025.9
30°	1220.1	1215.6	1185.3	1145.7	1111.8	1084.7	1082.3	1078.6	1084.7	1072.3	1059.4
32.5°	1324.3	1310.3	1261.2	1190.8	1146.6	1125.8	1122.6	1100.2	1102.6	1095.0	1088.7
35°	1473.6	1455.3	1389.8	1276.3	1189.7	1160.1	1158.6	1130.2	1125.3	1118.6	1120.9
37.5°	1651.4	1628.5	1552.3	1400.1	1263.9	1200.1	1197.7	1172.1	1152.5	1145.3	1159.0
40°	1829.8	1801.1	1738.0	1551.1	1373.4	1266.8	1259.2	1220.5	1198.0	1186.1	1214.8
42.5°	2003.2	1979.2	1925.3	1720.5	1508.4	1364.2	1347.5	1281.1	1264.3	1253.2	1305.1
45°	2156.5	2135.0	2095.4	1901.4	1666.5	1496.8	1480.4	1372.2	1367.0	1367.0	1442.1
47.5°	2281.1	2276.3	2234.4	2085.9	1853.0	1647.8	1619.4	1498.8	1512.8	1534.3	1636.5
50°	2419.3	2406.1	2361.4	2267.5	2072.2	1820.7	1797.5	1654.1	1706.4	1765.6	1917.7
52.5°	2546.3	2553.5	2503.6	2456.8	2319.9	2013.5	1972.8	1837.4	1950.5	2048.3	2247.2
55°	2676.9	2677.3	2663.3	2656.9	2579.4	2226.8	2182.1	2057.9	2237.6	2359.0	2631.4
57.5°	2799.5	2800.3	2821.0	2877.4	2880.6	2472.8	2422.1	2328.6	2556.7	2680.5	3027.5
60°	2909.0	2914.5	2971.2	3103.0	3145.3	2754.8	2706.8	2648.5	2886.5	3011.1	3444.0
62.5°	2945.6	2966.0	3092.2	3279.5	3406.9	3100.6	3053.5	3018.7	3233.2	3349.0	3792.3
65°	2883.3	2930.1	3174.1	3425.2	3676.1	3511.5	3464.8	3426.9	3593.4	3702.4	4078.2
67.5°	2730.4	2790.7	3169.3	3578.2	4002.7	4005.9	3962.4	3873.4	3979.6	4021.5	4171.2
70°	2327.5	2417.7	2890.1	3635.4	4377.8	4682.0	4640.1	4410.9	4365.0	4162.1	3909.2
72.5°	1499.6	1620.9	2128.2	3165.3	4461.2	5318.2	5315.9	4896.1	4486.7	3889.0	3135.4
75°	547.1	621.4	988.8	1986.8	3744.7	5285.8	5301.4	4813.0	4095.8	3004.0	1953.2
77.5°	199.3	218.0	322.7	763.5	2303.1	4241.1	4273.5	3847.7	2915.3	1507.6	774.0
80°	104.7	115.0	165.3	296.3	986.8	2518.7	2569.5	2286.7	1370.2	454.1	232.1
82.5°	57.9	62.7	92.7	160.9	444.4	1077.1	1107.4	903.3	482.1	192.5	95.8
85°	31.2	33.1	43.6	87.8	217.3	373.4	381.8	270.0	192.1	113.1	46.3
87.5°	9.2	11.2	14.3	28.0	85.1	83.8	85.9	53.5	75.8	57.1	15.2
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: P961325  
 CATALOG NUMBER: NAV-SB2A-722-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8
2.5°	768.3	767.2	762.8	760.8	758.4	758.0	759.9	760.3	760.8	761.2	762.8
5°	775.5	771.5	767.5	765.2	766.0	766.4	770.4	773.2	775.1	776.7	777.6
7.5°	789.6	786.4	779.5	779.1	780.3	783.9	789.1	795.5	799.1	801.9	802.7
10°	810.3	804.3	796.3	797.6	799.9	805.1	815.9	821.0	827.1	832.3	831.1
12.5°	831.5	826.3	817.1	817.8	821.8	831.1	841.4	847.9	851.8	855.8	857.4
15°	859.1	849.8	839.9	839.9	847.1	857.0	861.8	867.0	869.4	873.8	875.4
17.5°	887.3	875.4	862.2	861.4	870.2	874.9	877.8	878.6	879.3	884.2	885.8
20°	915.7	902.5	883.8	882.2	884.2	883.3	882.9	882.2	883.3	889.4	891.7
22.5°	943.7	928.5	902.5	895.3	889.8	882.2	881.8	881.4	882.2	888.2	892.2
25°	976.4	958.1	923.3	901.8	882.9	872.6	873.8	874.2	874.9	879.8	886.2
27.5°	1012.0	991.6	942.5	899.7	865.8	858.6	856.6	857.8	860.6	868.2	875.8
30°	1047.6	1023.6	960.0	891.7	844.2	834.2	827.9	830.7	839.5	847.1	855.5
32.5°	1079.8	1055.9	974.1	874.2	816.7	801.1	792.7	796.3	805.1	807.9	817.8
35°	1117.8	1090.6	980.0	846.2	786.7	762.8	751.6	746.4	750.8	747.9	756.8
37.5°	1160.1	1131.8	979.2	809.4	751.6	724.1	708.5	688.9	679.7	670.1	676.1
40°	1222.8	1182.1	969.6	765.2	708.1	682.9	655.0	621.8	601.1	582.3	583.4
42.5°	1308.3	1251.9	952.0	716.5	659.0	635.4	597.5	558.7	525.9	494.8	492.0
45°	1435.7	1343.5	930.1	664.5	605.8	582.6	541.5	497.9	460.8	421.0	416.2
47.5°	1619.4	1466.5	909.4	605.5	549.9	528.8	491.6	451.3	407.3	368.6	364.2
50°	1871.8	1643.0	890.2	548.0	494.8	478.8	449.3	408.2	363.8	332.6	330.7
52.5°	2192.9	1882.9	882.2	492.4	443.3	437.3	413.7	375.4	333.4	307.1	305.1
55°	2561.5	2170.1	882.2	439.3	398.1	400.2	383.8	348.2	311.9	288.3	286.0
57.5°	2937.6	2460.8	866.2	390.2	359.8	368.2	357.8	326.7	294.0	269.6	265.6
60°	3284.3	2704.5	801.6	345.4	325.8	339.1	332.3	305.6	265.6	245.2	242.0
62.5°	3550.7	2841.8	676.9	309.9	298.0	313.1	309.5	277.6	260.3	251.9	249.2
65°	3684.1	2819.5	517.5	278.4	274.4	298.0	290.3	289.2	275.5	266.0	262.8
67.5°	3602.2	2627.0	375.4	255.2	260.8	283.9	313.1	317.9	292.7	274.0	270.8
70°	3243.2	2278.7	279.5	233.2	243.6	284.3	357.0	332.6	287.1	265.2	261.6
72.5°	2467.2	1699.2	216.9	210.0	221.2	286.4	376.6	325.8	271.1	293.2	290.7
75°	1410.9	932.9	174.1	181.7	193.3	267.5	366.6	308.3	258.8	269.2	269.2
77.5°	537.9	358.6	143.8	153.8	155.4	233.6	350.7	307.1	246.4	240.4	219.2
80°	186.5	140.2	119.0	122.2	120.2	207.7	336.3	267.2	201.7	180.5	174.6
82.5°	76.3	69.9	94.2	90.3	85.5	161.3	271.5	218.4	164.9	145.8	144.2
85°	33.1	44.3	62.3	54.7	49.5	111.8	217.6	184.9	139.4	120.2	119.8
87.5°	6.8	16.8	26.3	24.8	25.5	74.7	154.6	131.4	98.6	73.9	57.9
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)