

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: P961316

Luminaire Tested: **NAV-SB2A-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2A-722-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

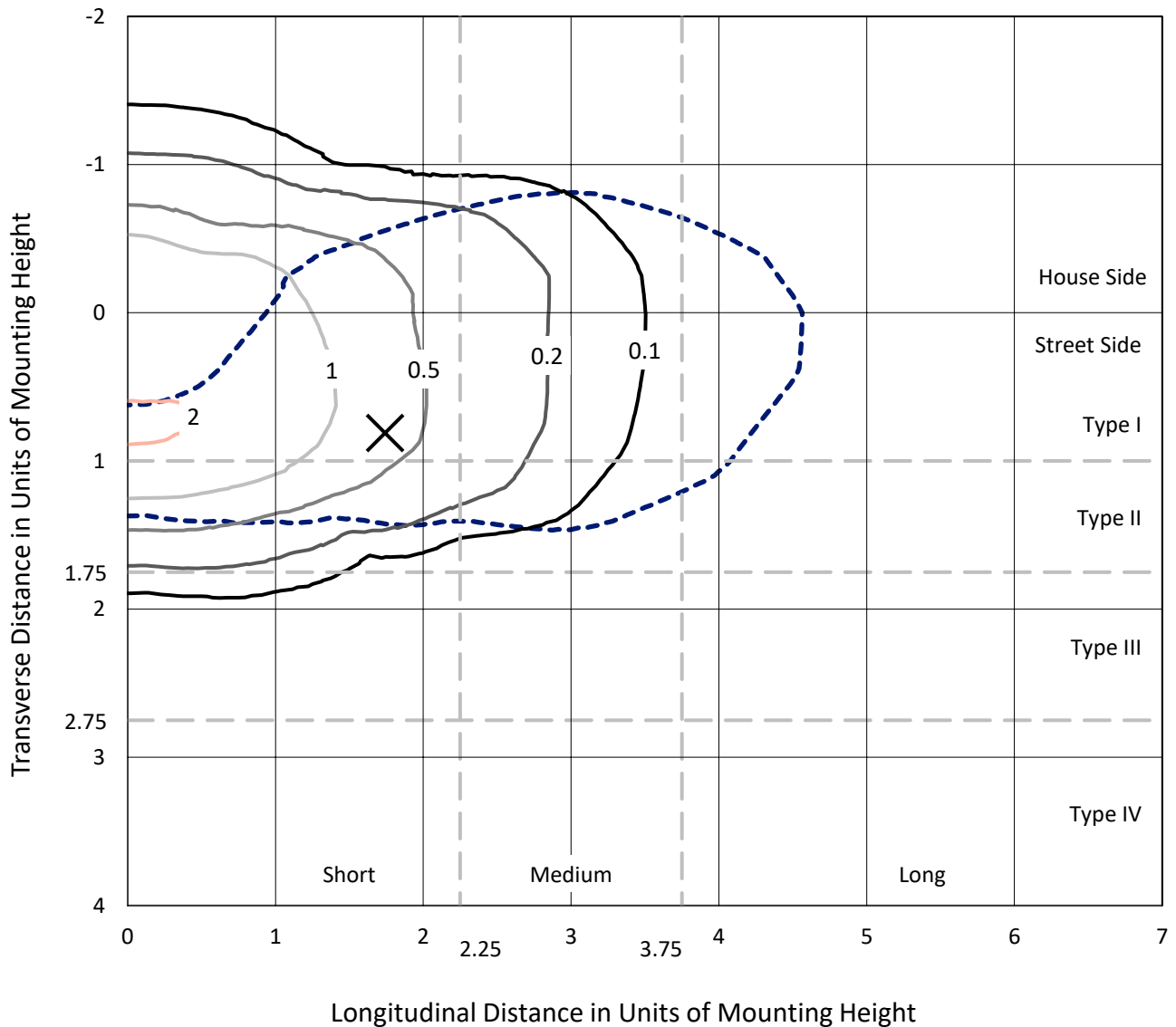
Lumens per Lamp: N/A  
Luminaire Lumens: 7697.8 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P961316  
 CATALOG NUMBER: NAV-SB2A-722-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

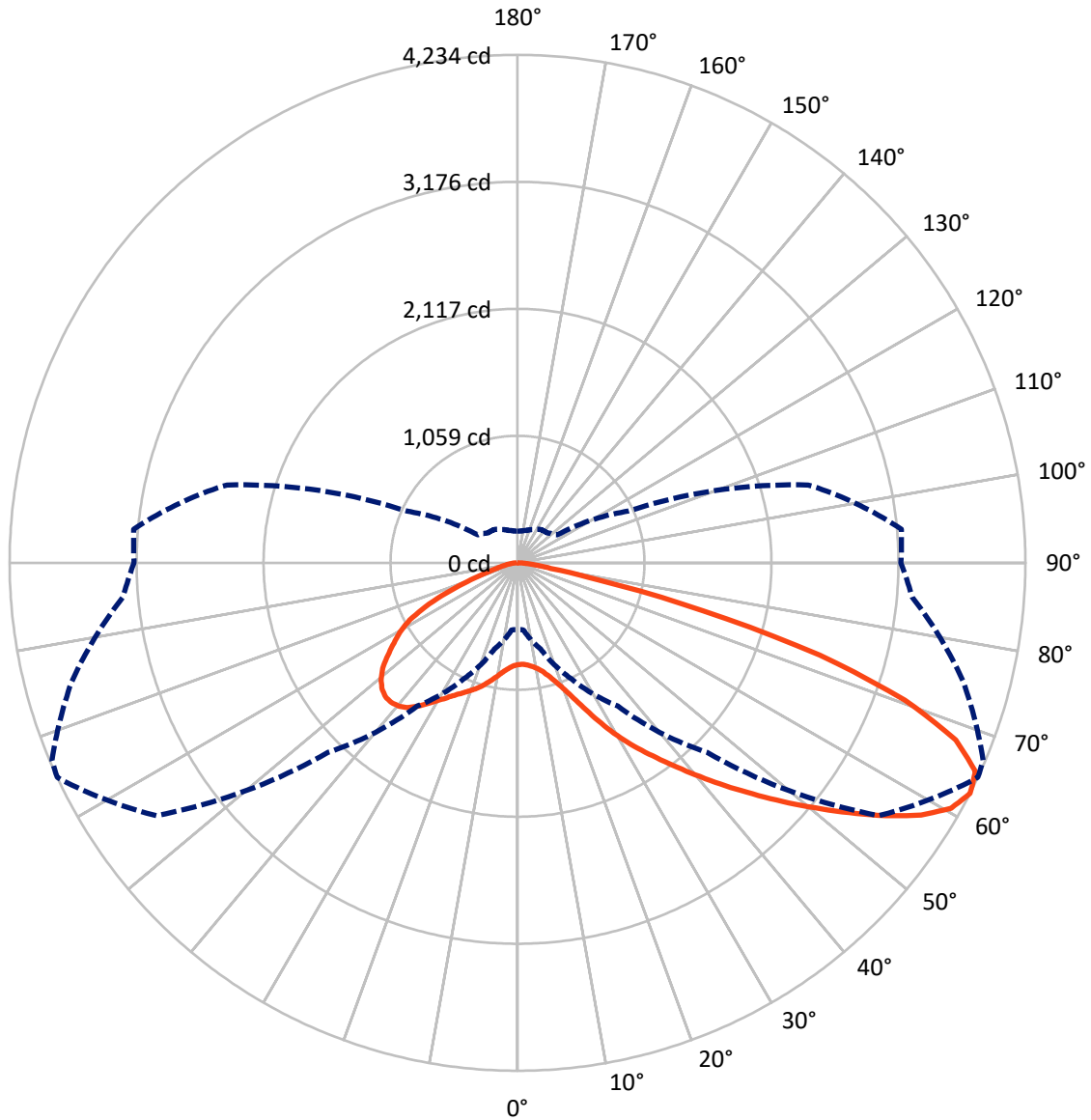
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P961316  
CATALOG NUMBER: NAV-SB2A-722-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P961316  
 CATALOG NUMBER: NAV-SB2A-722-U-T2U

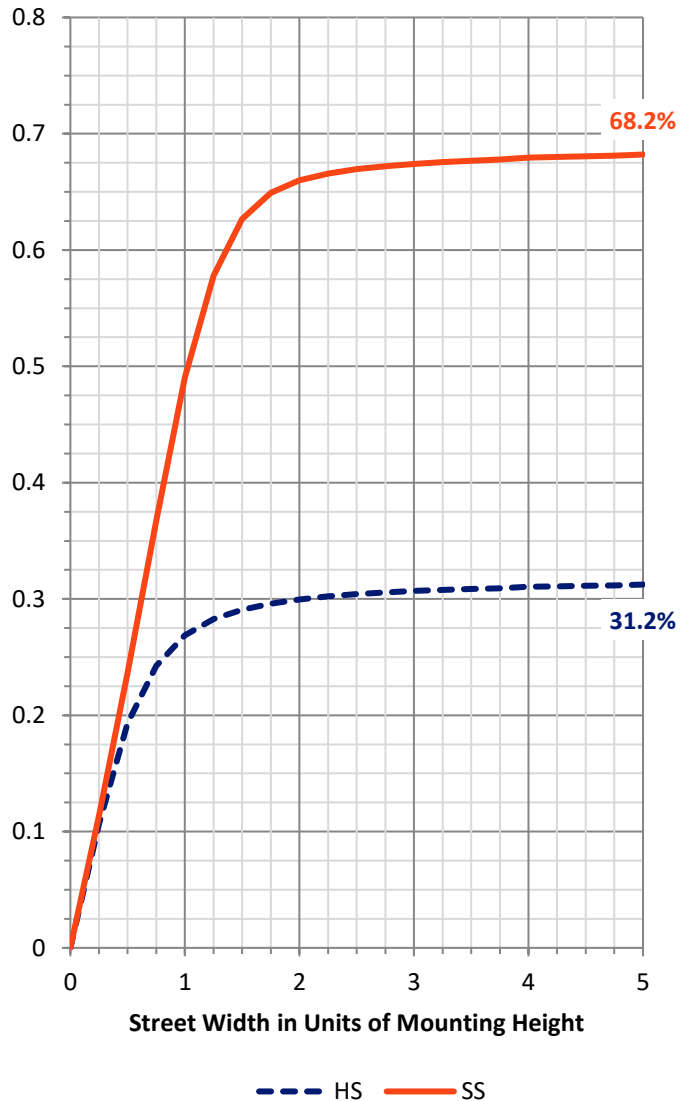
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2429.1	0.0	2429.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	5268.7	0.0	5268.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	7697.8	0.0	7697.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	1.1
10°-20°	286.8	3.7
20°-30°	581.5	7.6
30°-40°	1006.3	13.1
40°-50°	1522.8	19.8
50°-60°	1785.4	23.2
60°-70°	1496.8	19.4
70°-80°	826.4	10.7
80°-90°	107.3	1.4
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°	7697.8	100.0
0°-180°	7697.8	100.0

**Coefficient of Utilization**

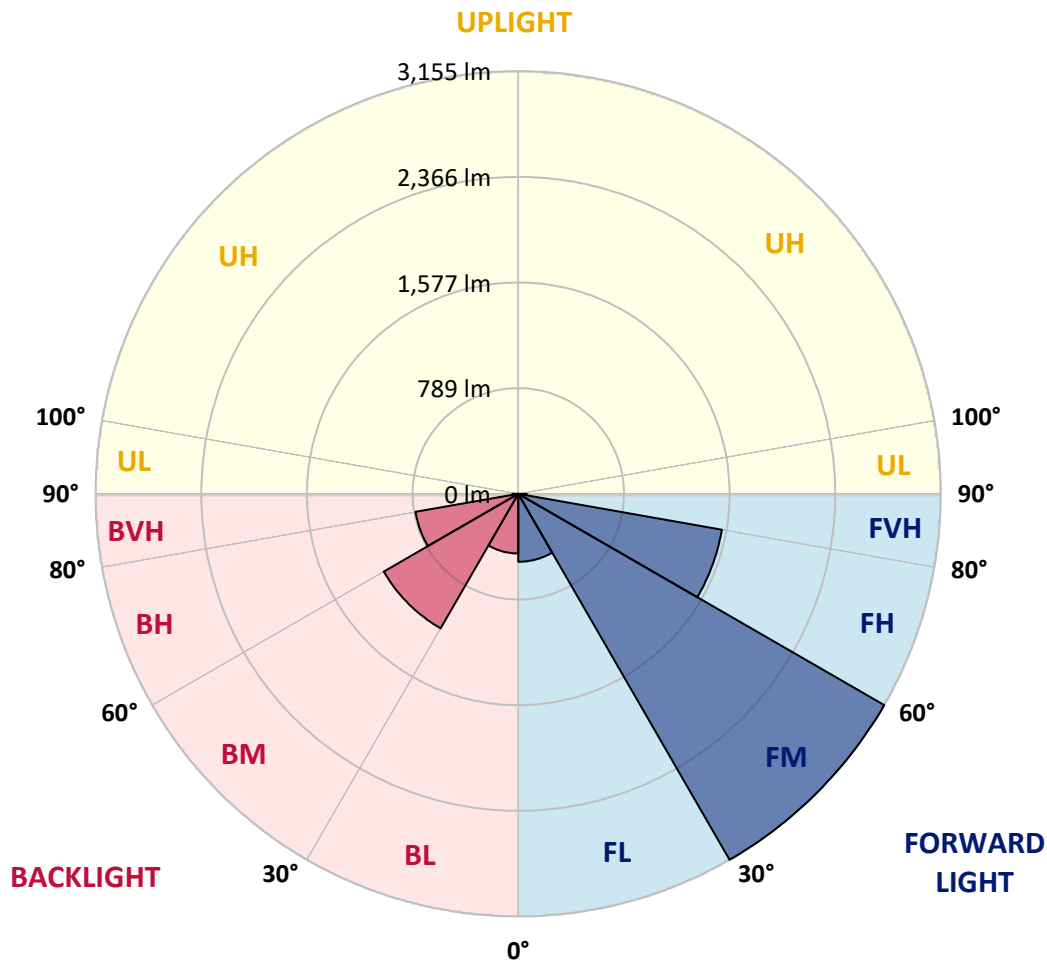


REPORT NUMBER: P961316  
 CATALOG NUMBER: NAV-SB2A-722-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.4	6.6			
FM (30°-60°)	3154.8	41.0			
FH (60°-80°)	1543.9	20.1			G1/1800
FVH (80°-90°)	62.6	0.8			G1/100
BL (0°-30°)	445.5	5.8	B1/500		
BM (30°-60°)	1159.6	15.1	B2/2500		
BH (60°-80°)	779.2	10.1	B2/1000		G2/1000
BVH (80°-90°)	44.8	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 II Short



REPORT NUMBER: P961316  
 CATALOG NUMBER: NAV-SB2A-722-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	848.3	848.3	848.3	848.3	848.3	848.3	848.3	848.3	848.3	848.3	848.3
2.5°	842.7	840.3	842.2	842.2	843.1	842.7	845.4	846.2	847.5	849.8	849.8
5°	834.2	833.8	837.4	840.7	843.9	846.6	850.2	855.5	856.3	859.1	862.6
7.5°	831.5	829.1	834.7	838.7	846.2	853.0	862.6	871.5	875.0	876.2	883.0
10°	853.0	849.0	854.2	856.7	863.0	869.8	881.0	895.0	899.0	903.7	911.3
12.5°	889.8	885.4	893.0	896.6	902.6	908.6	916.1	929.8	931.7	940.5	947.7
15°	940.1	934.9	939.7	944.1	954.1	959.7	967.3	980.4	980.4	987.3	992.4
17.5°	1008.4	1001.6	1005.2	1006.9	1013.2	1021.6	1034.3	1045.9	1052.0	1049.5	1042.3
20°	1110.3	1101.9	1101.9	1093.9	1091.5	1098.3	1115.0	1131.0	1137.4	1125.0	1107.4
22.5°	1263.2	1251.2	1244.5	1217.3	1206.5	1207.2	1224.1	1243.6	1248.9	1226.8	1187.4
25°	1457.7	1438.9	1429.8	1389.8	1365.4	1344.3	1357.4	1382.6	1389.8	1362.6	1298.8
27.5°	1652.2	1653.4	1644.6	1596.6	1556.4	1517.6	1510.8	1537.2	1544.8	1514.0	1434.9
30°	1925.0	1896.6	1879.8	1822.3	1764.8	1710.5	1682.5	1693.3	1695.4	1658.6	1566.7
32.5°	2160.2	2153.0	2117.0	2066.7	1992.8	1907.8	1861.1	1843.9	1840.7	1788.4	1679.4
35°	2428.1	2424.1	2386.2	2326.3	2246.5	2128.2	2044.0	1994.9	1990.9	1917.4	1790.8
37.5°	2700.6	2700.6	2663.4	2597.9	2515.2	2367.4	2239.2	2161.4	2148.6	2052.8	1904.1
40°	2917.8	2904.6	2911.4	2883.8	2789.2	2632.2	2456.1	2343.0	2325.9	2210.9	2024.8
42.5°	3041.2	3036.8	3077.6	3108.3	3069.6	2944.1	2694.9	2540.0	2516.1	2385.1	2163.8
45°	3068.7	3063.9	3136.6	3249.2	3303.6	3252.0	2954.6	2747.2	2718.1	2567.1	2312.7
47.5°	3005.2	2995.7	3102.3	3280.0	3454.1	3544.8	3235.7	2972.1	2929.8	2744.4	2465.7
50°	2814.3	2805.1	2966.6	3202.5	3504.9	3743.7	3540.8	3210.5	3145.8	2934.6	2620.2
52.5°	2399.4	2403.8	2656.6	2980.9	3438.2	3867.5	3803.6	3461.7	3383.8	3129.0	2765.2
55°	1869.1	1878.6	2189.3	2546.4	3171.4	3848.7	3982.9	3720.5	3643.1	3312.0	2915.0
57.5°	1338.2	1380.6	1671.8	2025.2	2659.0	3551.2	4022.0	3966.5	3891.4	3511.6	3061.6
60°	867.5	875.0	1174.5	1530.7	2024.8	3022.4	3942.6	4153.0	4094.4	3715.3	3184.2
62.5°	556.0	561.1	743.6	1070.7	1457.3	2236.0	3675.0	4234.1	4216.1	3849.9	3301.9
65°	408.6	404.6	499.6	707.7	981.6	1379.0	3155.4	4195.0	4230.5	3934.2	3399.4
67.5°	341.0	335.5	382.2	490.1	723.2	783.2	2334.7	3940.6	4070.8	3924.6	3471.0
70°	310.7	306.0	334.3	363.9	564.3	524.4	1176.9	3425.8	3626.2	3815.6	3459.4
72.5°	263.2	254.8	293.6	323.1	438.9	402.2	486.5	2631.5	2875.8	3466.1	3296.4
75°	204.1	198.4	231.6	284.3	329.8	313.9	307.5	1597.9	1864.7	2680.6	2883.8
77.5°	161.7	154.2	184.5	221.6	296.7	236.8	224.1	688.1	952.5	1711.3	2157.8
80°	121.8	115.0	140.2	175.3	228.1	178.6	144.9	280.7	359.1	867.0	1085.1
82.5°	86.6	80.7	97.9	128.6	153.3	160.1	89.1	157.3	176.9	334.3	242.4
85°	55.6	52.0	65.5	80.7	97.5	103.0	54.3	82.3	90.3	137.8	101.1
87.5°	30.3	24.8	35.2	37.5	45.1	41.1	25.9	29.9	32.4	49.9	42.7
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: P961316  
 CATALOG NUMBER: NAV-SB2A-722-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	848.3	848.3	848.3	848.3	848.3	848.3	848.3	848.3	848.3	848.3	848.3
2.5°	851.5	852.7	856.7	857.8	860.6	864.3	866.6	869.0	869.0	871.5	871.5
5°	863.0	865.8	874.2	878.6	885.8	893.0	897.4	902.6	905.8	907.3	908.2
7.5°	885.4	889.8	901.8	909.4	921.8	931.7	938.5	945.7	947.3	951.7	950.1
10°	915.7	921.0	934.5	948.9	963.7	976.1	982.5	987.6	989.6	990.5	988.4
12.5°	950.5	958.1	975.7	993.2	1008.8	1019.6	1021.2	1020.0	1014.4	1009.6	1009.6
15°	993.2	1000.0	1019.6	1038.7	1053.9	1056.0	1045.9	1039.6	1032.8	1031.6	1031.6
17.5°	1044.4	1048.0	1065.9	1084.7	1085.9	1079.1	1064.4	1058.3	1052.0	1047.6	1048.0
20°	1103.8	1102.7	1115.4	1123.4	1115.0	1094.3	1071.9	1061.9	1055.5	1050.3	1050.7
22.5°	1175.0	1165.7	1164.2	1162.1	1139.8	1096.2	1065.9	1053.1	1043.1	1036.0	1038.3
25°	1278.4	1243.2	1218.8	1205.3	1155.0	1085.5	1046.7	1018.4	999.6	987.3	992.0
27.5°	1407.7	1348.7	1287.2	1254.0	1155.0	1063.5	1000.4	954.5	923.7	910.9	917.4
30°	1531.1	1469.2	1378.6	1312.7	1152.2	1027.6	925.8	861.8	825.9	813.1	820.7
32.5°	1636.6	1569.1	1475.7	1377.0	1145.4	969.2	833.1	762.4	727.6	712.5	720.1
35°	1734.5	1662.6	1573.1	1447.7	1127.4	883.8	731.2	677.3	638.6	614.2	622.2
37.5°	1834.7	1749.3	1665.3	1511.6	1095.1	783.9	652.9	607.0	561.5	528.8	537.5
40°	1943.7	1841.5	1764.0	1549.6	1041.9	688.9	592.2	550.3	502.0	467.3	474.1
42.5°	2071.1	1952.1	1873.8	1569.1	969.2	621.5	552.7	511.6	466.1	437.7	443.3
45°	2204.2	2073.9	1974.0	1568.8	888.2	589.9	540.0	499.2	448.8	419.3	424.1
47.5°	2343.5	2201.3	2060.8	1543.1	817.9	594.3	532.8	472.4	417.0	388.2	392.2
50°	2483.3	2340.7	2144.6	1495.3	787.9	584.7	506.0	434.9	369.4	343.5	345.0
52.5°	2621.8	2488.9	2216.9	1426.9	757.6	549.1	471.7	386.2	349.8	331.9	331.9
55°	2761.2	2635.5	2295.6	1327.5	681.7	507.6	414.1	367.8	334.3	317.9	316.3
57.5°	2901.1	2804.8	2370.2	1228.1	586.3	456.4	382.6	345.4	318.7	304.7	302.3
60°	3046.4	2998.4	2447.3	1136.6	492.0	390.9	359.5	327.5	300.3	284.7	283.5
62.5°	3196.2	3211.7	2507.7	1018.7	405.4	351.1	338.7	306.0	279.5	264.8	264.3
65°	3347.1	3417.4	2547.1	855.5	328.7	313.1	316.3	282.4	255.6	242.8	242.4
67.5°	3460.9	3565.6	2536.0	647.4	269.6	277.2	288.3	257.6	232.5	222.4	222.8
70°	3473.7	3548.0	2425.8	443.3	225.6	242.0	257.2	233.2	207.3	200.1	200.5
72.5°	3303.6	3308.4	2118.7	289.6	190.9	212.5	224.5	208.5	183.3	176.1	175.7
75°	2857.5	2736.0	1555.5	190.9	159.8	182.6	193.7	182.6	158.2	159.8	154.2
77.5°	2165.0	1937.8	944.5	135.8	133.4	153.3	168.5	160.5	139.8	156.9	138.2
80°	1115.4	1048.4	421.4	101.5	105.5	122.6	138.6	128.2	110.6	105.5	96.2
82.5°	255.6	297.1	166.2	72.7	76.3	88.3	105.9	96.2	79.4	67.1	66.3
85°	89.5	97.9	73.5	45.5	44.7	55.1	71.9	64.3	53.9	43.2	45.5
87.5°	28.4	37.1	27.6	18.3	19.2	24.8	33.1	30.3	25.1	16.4	17.2
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)