

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: P960324

Luminaire Tested: **NAV-SB1C-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960324
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-SB1C-730-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7781.8 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

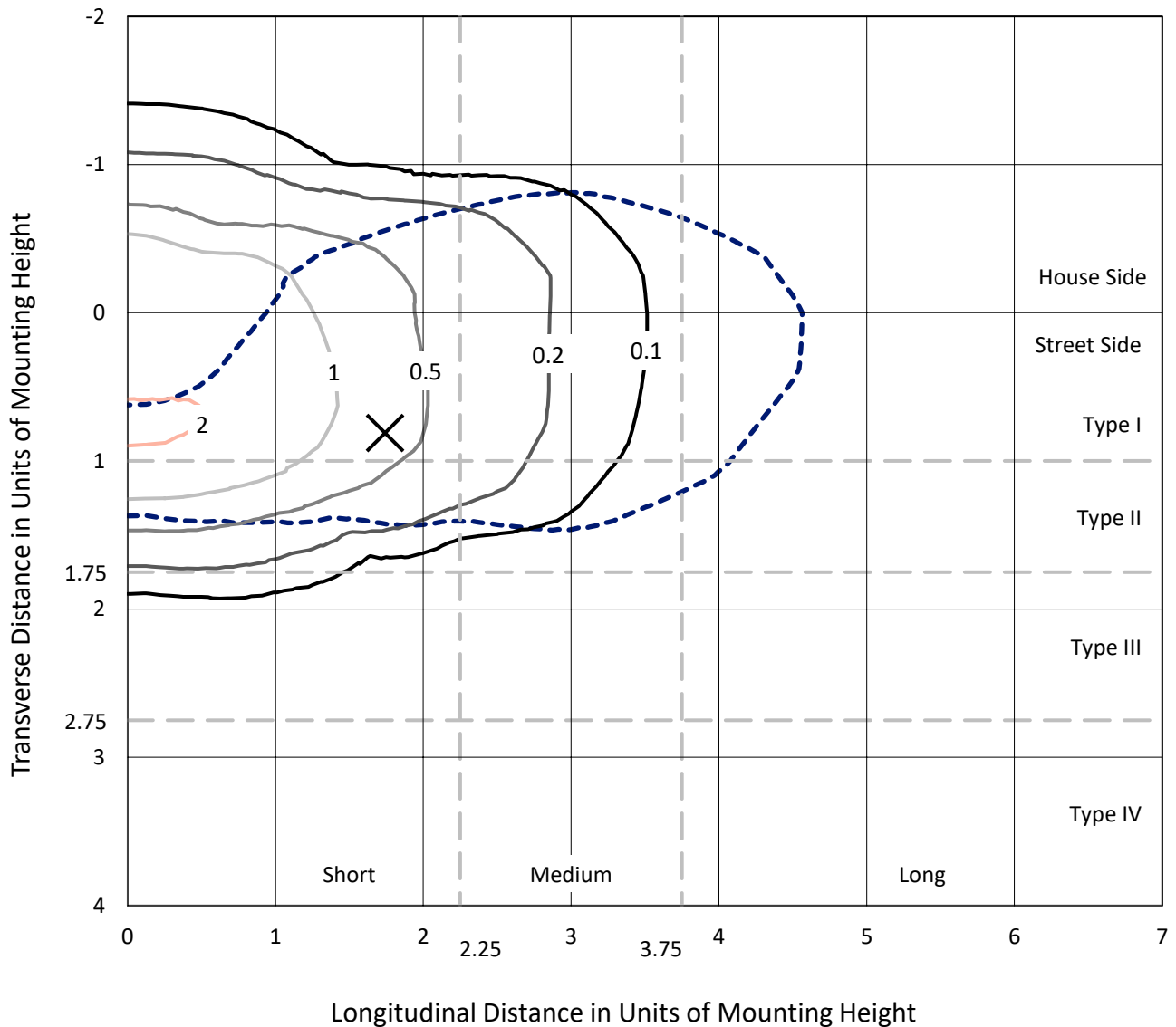
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960324
 CATALOG NUMBER: NAV-SB1C-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

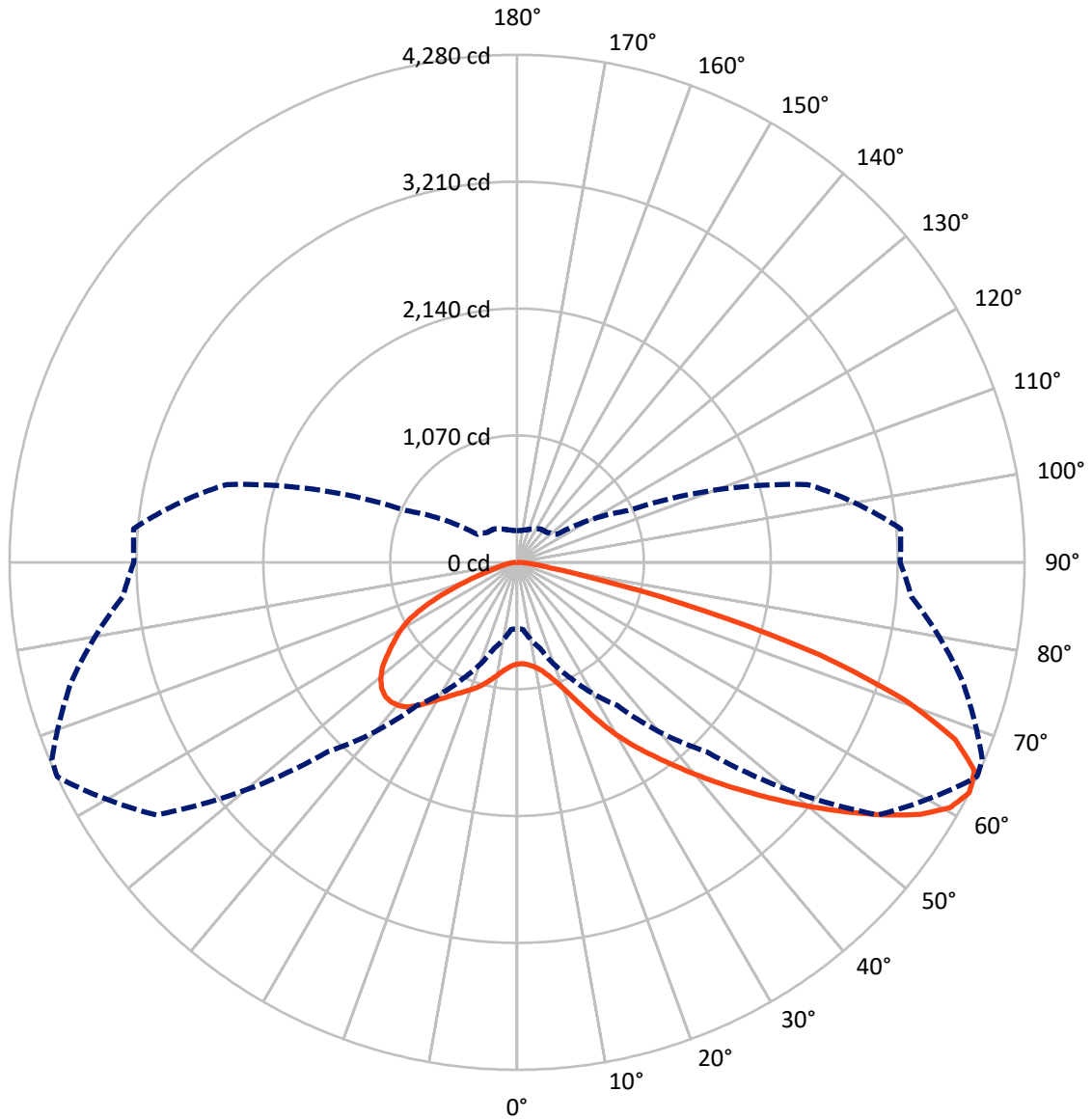
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P960324
CATALOG NUMBER: NAV-SB1C-730-U-T2U

Luminous Intensity Polar Plot



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

REPORT NUMBER: P960324
 CATALOG NUMBER: NAV-SB1C-730-U-T2U

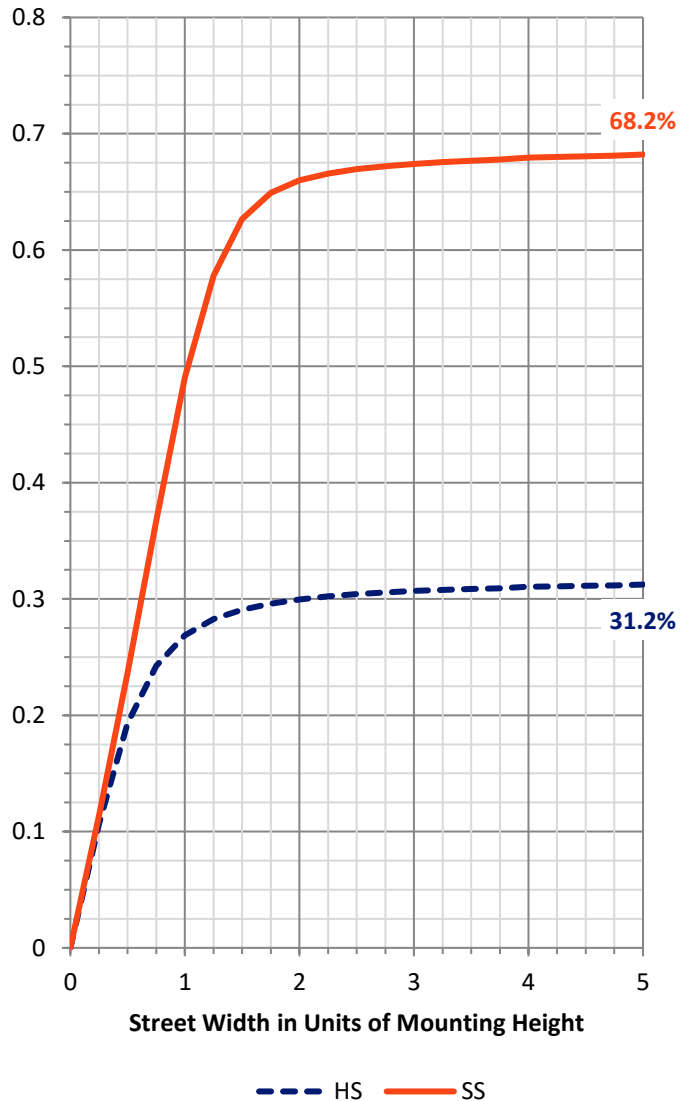
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2455.6	0.0	2455.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5326.2	0.0	5326.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	7781.8	0.0	7781.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.1
10°-20°	289.9	3.7
20°-30°	587.8	7.6
30°-40°	1017.2	13.1
40°-50°	1539.4	19.8
50°-60°	1804.9	23.2
60°-70°	1513.1	19.4
70°-80°	835.4	10.7
80°-90°	108.5	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°	7781.8	100.0
0°-180°	7781.8	100.0

Coefficient of Utilization



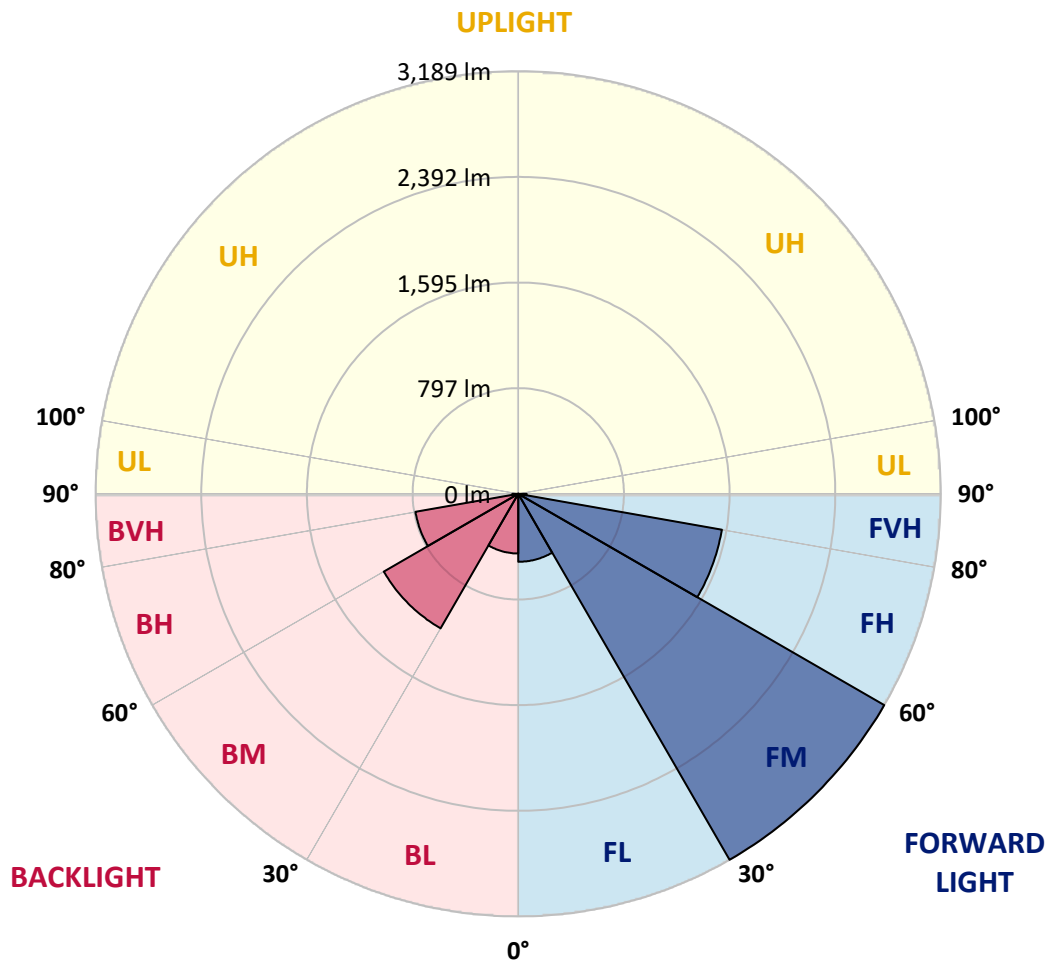
REPORT NUMBER: P960324
 CATALOG NUMBER: NAV-SB1C-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.9	6.6			
FM (30°-60°)	3189.2	41.0			
FH (60°-80°)	1560.8	20.1			G1/1800
FVH (80°-90°)	63.2	0.8			G1/100
BL (0°-30°)	450.3	5.8	B1/500		
BM (30°-60°)	1172.3	15.1	B2/2500		
BH (60°-80°)	787.7	10.1	B2/1000		G2/1000
BVH (80°-90°)	45.3	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: P960324
 CATALOG NUMBER: NAV-SB1C-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	857.5	857.5	857.5	857.5	857.5	857.5	857.5	857.5	857.5	857.5	857.5
2.5°	851.9	849.4	851.5	851.5	852.3	851.9	854.6	855.5	856.7	859.2	859.2
5°	843.4	843.0	846.6	849.8	853.1	855.9	859.6	864.8	865.6	868.4	872.1
7.5°	840.6	838.1	843.8	847.9	855.5	862.3	872.1	881.0	884.6	885.8	892.7
10°	862.3	858.3	863.6	866.0	872.5	879.3	890.6	904.8	908.8	913.7	921.3
12.5°	899.5	895.0	902.7	906.4	912.5	918.5	926.2	939.9	941.9	950.8	958.1
15°	950.4	945.2	950.0	954.4	964.5	970.2	977.8	991.2	991.2	998.0	1003.3
17.5°	1019.5	1012.6	1016.2	1017.8	1024.3	1032.8	1045.7	1057.4	1063.4	1061.0	1053.7
20°	1122.4	1113.9	1113.9	1105.8	1103.4	1110.3	1127.2	1143.4	1149.8	1137.3	1119.5
22.5°	1276.9	1264.8	1258.0	1230.6	1219.6	1220.5	1237.4	1257.2	1262.5	1240.2	1200.3
25°	1473.6	1454.7	1445.4	1405.0	1380.4	1358.9	1372.3	1397.7	1405.0	1377.5	1312.9
27.5°	1670.2	1671.5	1662.6	1614.1	1573.4	1534.2	1527.4	1554.0	1561.6	1530.5	1450.6
30°	1946.0	1917.3	1900.4	1842.2	1784.1	1729.2	1700.9	1711.9	1713.8	1676.7	1583.8
32.5°	2183.8	2176.5	2140.2	2089.3	2014.6	1928.6	1881.4	1864.1	1860.8	1807.9	1697.7
35°	2454.7	2450.7	2412.2	2351.8	2271.0	2151.5	2066.3	2016.6	2012.6	1938.3	1810.4
37.5°	2730.0	2730.0	2692.5	2626.3	2542.7	2393.3	2263.7	2185.0	2172.1	2075.2	1925.0
40°	2949.6	2936.3	2943.2	2915.3	2819.7	2661.0	2483.0	2368.7	2351.4	2235.0	2046.9
42.5°	3074.4	3070.0	3111.2	3142.2	3103.1	2976.3	2724.3	2567.7	2543.5	2411.1	2187.5
45°	3102.3	3097.4	3170.8	3284.7	3339.7	3287.6	2986.7	2777.2	2747.8	2595.2	2338.0
47.5°	3038.1	3028.4	3136.2	3315.9	3491.9	3583.5	3271.0	3004.6	2961.7	2774.5	2492.6
50°	2845.1	2835.8	2998.9	3237.5	3543.1	3784.6	3579.5	3245.6	3180.2	2966.6	2648.9
52.5°	2425.6	2430.1	2685.6	3013.4	3475.7	3909.8	3845.1	3499.6	3420.8	3163.3	2795.4
55°	1889.5	1899.1	2213.3	2574.2	3206.0	3890.7	4026.4	3761.1	3682.8	3348.2	2946.8
57.5°	1352.9	1395.7	1690.0	2047.3	2688.1	3590.0	4066.0	4009.8	3934.0	3550.0	3095.0
60°	876.9	884.6	1187.4	1547.4	2046.9	3055.4	3985.6	4198.4	4139.1	3755.9	3218.9
62.5°	562.0	567.2	751.7	1082.4	1473.2	2260.4	3715.1	4280.3	4262.2	3891.9	3338.0
65°	413.0	409.0	505.0	715.4	992.4	1394.1	3189.9	4240.7	4276.7	3977.1	3436.5
67.5°	344.8	339.2	386.3	495.4	731.1	791.7	2360.2	3983.6	4115.2	3967.5	3508.8
70°	314.1	309.2	337.9	367.8	570.5	530.1	1189.8	3463.2	3665.8	3857.2	3497.1
72.5°	266.1	257.6	296.7	326.7	443.7	406.5	491.7	2660.2	2907.2	3504.0	3332.4
75°	206.3	200.7	234.2	287.4	333.4	317.3	310.9	1615.3	1885.0	2709.8	2915.3
77.5°	163.5	155.8	186.5	224.1	300.0	239.4	226.5	695.7	962.9	1730.0	2181.3
80°	123.1	116.2	141.8	177.2	230.5	180.5	146.6	283.8	363.0	876.5	1097.0
82.5°	87.6	81.6	98.9	130.0	155.1	161.8	90.0	159.1	178.9	337.9	245.1
85°	56.1	52.5	66.2	81.6	98.5	104.1	54.9	83.1	91.2	139.3	102.2
87.5°	30.6	25.0	35.6	37.9	45.6	41.6	26.2	30.2	32.7	50.4	43.2
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: P960324
 CATALOG NUMBER: NAV-SB1C-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	857.5	857.5	857.5	857.5	857.5	857.5	857.5	857.5	857.5	857.5	857.5
2.5°	860.8	861.9	866.0	867.3	870.0	873.7	876.1	878.5	878.5	881.0	881.0
5°	872.5	875.2	883.8	888.2	895.4	902.7	907.2	912.5	915.6	917.3	918.1
7.5°	895.0	899.5	911.6	919.3	931.8	941.9	948.7	956.0	957.7	962.1	960.4
10°	925.8	931.0	944.7	959.3	974.2	986.7	993.1	998.5	1000.4	1001.2	999.3
12.5°	960.8	968.5	986.4	1004.1	1019.8	1030.7	1032.4	1031.1	1025.5	1020.6	1020.6
15°	1004.1	1011.0	1030.7	1050.1	1065.5	1067.4	1057.4	1050.9	1044.1	1042.8	1042.8
17.5°	1055.8	1059.3	1077.6	1096.5	1097.8	1090.9	1075.9	1069.9	1063.4	1059.0	1059.3
20°	1115.9	1114.7	1127.6	1135.7	1127.2	1106.2	1083.6	1073.5	1067.0	1061.8	1062.2
22.5°	1187.8	1178.4	1176.9	1174.9	1152.2	1108.2	1077.6	1064.7	1054.5	1047.2	1049.7
25°	1292.3	1256.9	1232.2	1218.4	1167.6	1097.4	1058.2	1029.5	1010.5	998.0	1002.9
27.5°	1423.1	1363.4	1301.2	1267.7	1167.6	1075.1	1011.4	964.9	933.8	920.9	927.3
30°	1547.9	1485.3	1393.7	1327.1	1164.7	1038.8	935.8	871.2	834.9	821.9	829.6
32.5°	1654.5	1586.3	1491.8	1392.1	1157.9	979.9	842.1	770.7	735.6	720.3	728.0
35°	1753.4	1680.7	1590.3	1463.5	1139.7	893.5	739.2	684.7	645.5	620.9	629.0
37.5°	1854.7	1768.3	1683.6	1528.1	1107.0	792.5	660.1	613.7	567.6	534.5	543.5
40°	1964.9	1861.6	1783.3	1566.5	1053.3	696.4	598.7	556.4	507.5	472.3	479.2
42.5°	2093.8	1973.4	1894.3	1586.3	979.9	628.2	558.7	517.2	471.2	442.5	448.1
45°	2228.1	2096.5	1995.7	1585.9	897.9	596.3	545.8	504.7	453.8	423.9	428.8
47.5°	2369.1	2225.4	2083.2	1560.0	826.9	600.8	538.5	477.6	421.5	392.5	396.5
50°	2510.4	2366.2	2168.0	1511.6	796.5	591.0	511.5	439.6	373.4	347.2	348.8
52.5°	2650.4	2516.1	2241.1	1442.5	765.9	555.1	476.8	390.4	353.6	335.5	335.5
55°	2791.4	2664.2	2320.6	1342.0	689.2	513.1	418.7	371.9	337.9	321.3	319.8
57.5°	2932.7	2835.4	2396.1	1241.5	592.7	461.5	386.7	349.2	322.2	308.0	305.7
60°	3079.6	3031.2	2474.0	1149.0	497.4	395.2	363.4	331.1	303.6	287.8	286.7
62.5°	3231.0	3246.8	2535.0	1029.9	409.8	354.9	342.3	309.2	282.6	267.6	267.2
65°	3383.6	3454.7	2575.0	864.8	332.3	316.5	319.8	285.5	258.4	245.5	245.1
67.5°	3498.7	3604.5	2563.7	654.5	272.5	280.2	291.5	260.5	234.9	224.9	225.3
70°	3511.6	3586.7	2452.2	448.1	228.1	244.7	260.0	235.7	209.5	202.2	202.6
72.5°	3339.7	3344.5	2141.7	292.7	193.0	214.7	226.9	210.7	185.3	178.0	177.6
75°	2888.7	2766.0	1572.6	193.0	161.5	184.5	195.8	184.5	159.9	161.5	155.8
77.5°	2188.6	1958.9	954.8	137.2	134.9	155.1	170.4	162.3	141.3	158.7	139.7
80°	1127.6	1059.7	425.9	102.5	106.6	123.9	140.1	129.6	111.8	106.6	97.3
82.5°	258.4	300.3	168.0	73.5	77.1	89.2	107.0	97.3	80.4	67.9	67.0
85°	90.4	98.9	74.3	46.0	45.2	55.8	72.7	65.0	54.5	43.6	46.0
87.5°	28.7	37.5	27.9	18.6	19.4	25.0	33.5	30.6	25.4	16.5	17.3
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)