

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: P964013

Luminaire Tested: **NAV-SB3B-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964013
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-SB3B-730-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17550.1 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

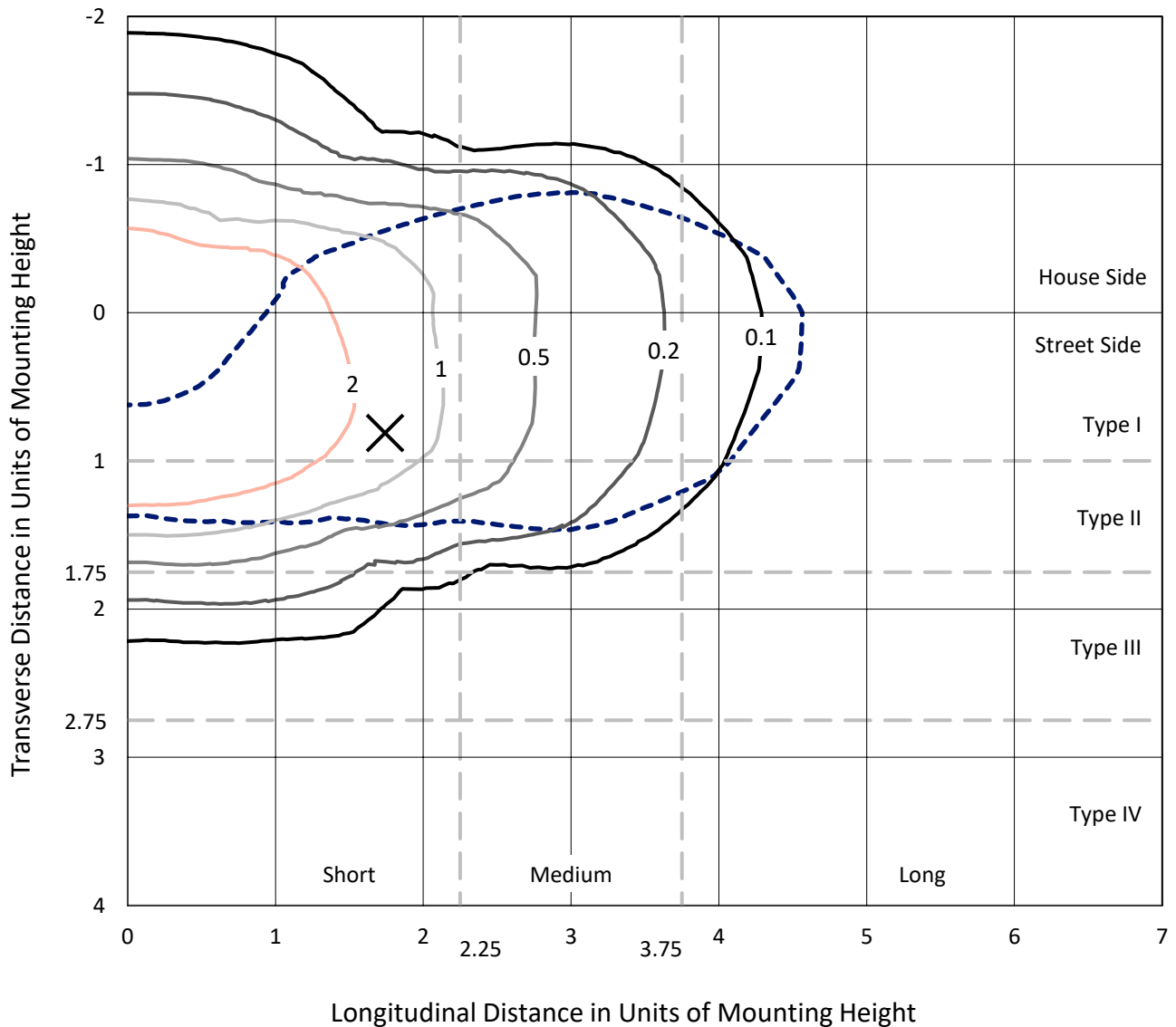
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

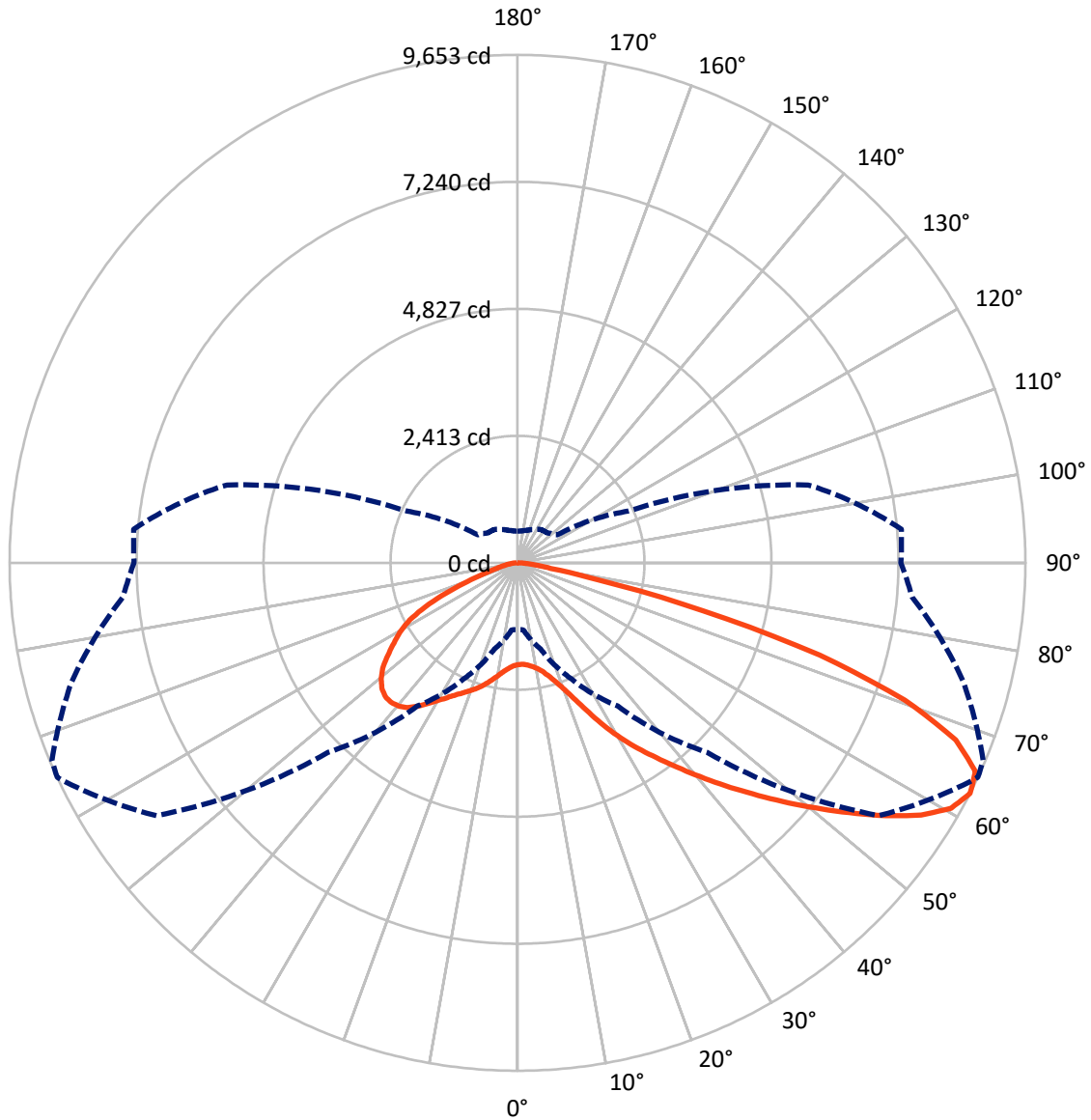
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

REPORT NUMBER: P964013
CATALOG NUMBER: NAV-SB3B-730-U-T2U

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: NAV-SB3B-730-U-T2U

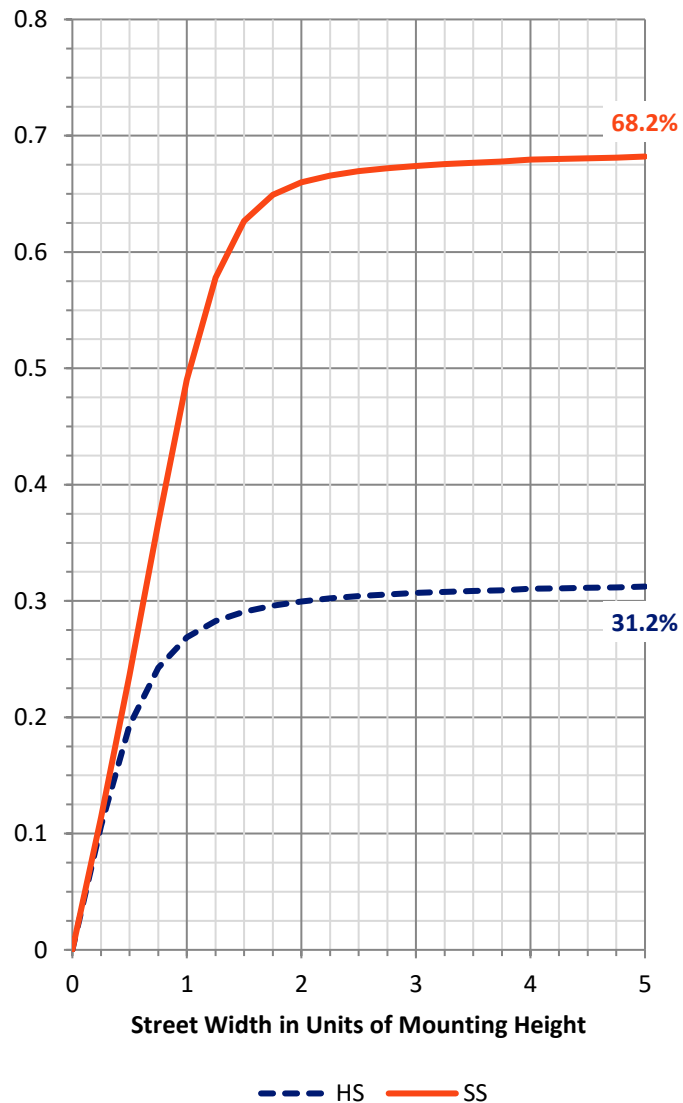
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5538.0	0.0	5538.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	12012.0	0.0	12012.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	17550.1	0.0	17550.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	1.1
10°-20°	653.8	3.7
20°-30°	1325.7	7.6
30°-40°	2294.2	13.1
40°-50°	3471.8	19.8
50°-60°	4070.4	23.2
60°-70°	3412.6	19.4
70°-80°	1884.0	10.7
80°-90°	244.7	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°	17550.1	100.0
0°-180°	17550.1	100.0

Coefficient of Utilization



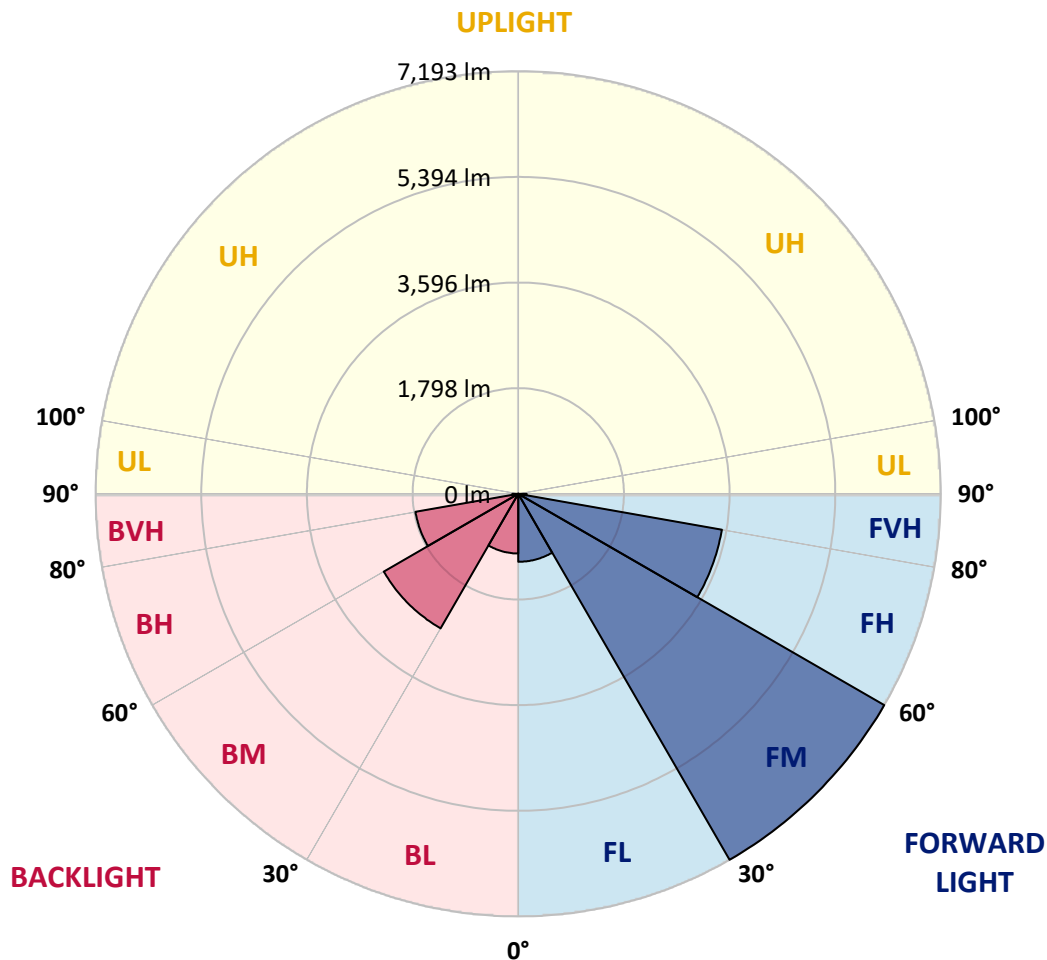
REPORT NUMBER: P964013
 CATALOG NUMBER: NAV-SB3B-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.8	6.6			
FM (30°-60°)	7192.6	41.0			
FH (60°-80°)	3520.0	20.1			G2/5000
FVH (80°-90°)	142.6	0.8			G2/225
BL (0°-30°)	1015.6	5.8	B3/2500		
BM (30°-60°)	2643.8	15.1	B3/5000		
BH (60°-80°)	1776.5	10.1	B3/2500		G3/2500
BVH (80°-90°)	102.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P964013
 CATALOG NUMBER: NAV-SB3B-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1921.2	1915.7	1920.2	1920.2	1922.1	1921.2	1927.6	1929.4	1932.1	1937.6	1937.6
5°	1902.1	1901.2	1909.4	1916.6	1923.9	1930.3	1938.5	1950.4	1952.1	1958.6	1966.7
7.5°	1895.7	1890.2	1903.0	1912.1	1929.4	1944.8	1966.7	1986.8	1995.0	1997.7	2013.2
10°	1944.8	1935.7	1947.6	1953.0	1967.6	1983.1	2008.6	2040.5	2049.6	2060.5	2077.8
12.5°	2028.7	2018.6	2036.0	2044.2	2057.8	2071.4	2088.7	2119.7	2124.2	2144.3	2160.7
15°	2143.4	2131.5	2142.5	2152.5	2175.3	2188.0	2205.3	2235.3	2235.3	2250.8	2262.7
17.5°	2299.1	2283.6	2291.8	2295.4	2309.9	2329.1	2358.2	2384.7	2398.3	2392.9	2376.5
20°	2531.2	2512.1	2512.1	2493.9	2488.5	2504.0	2542.2	2578.6	2593.1	2565.0	2524.9
22.5°	2879.9	2852.7	2837.2	2775.3	2750.7	2752.5	2790.8	2835.4	2847.1	2797.1	2706.9
25°	3323.4	3280.6	3259.6	3168.6	3113.0	3064.9	3094.9	3152.2	3168.6	3106.7	2961.0
27.5°	3766.8	3769.5	3749.6	3640.3	3548.2	3460.0	3444.5	3504.6	3521.9	3451.8	3271.5
30°	4388.7	4324.1	4285.8	4154.7	4023.5	3899.7	3836.0	3860.6	3865.2	3781.4	3571.9
32.5°	4925.0	4908.6	4826.6	4711.9	4543.5	4349.6	4243.0	4203.8	4196.6	4077.3	3828.7
35°	5535.9	5526.8	5440.4	5303.8	5121.6	4852.1	4660.1	4548.0	4538.9	4371.4	4082.8
37.5°	6157.0	6157.0	6072.2	5923.0	5734.5	5397.5	5105.3	4927.7	4898.6	4680.0	4341.4
40°	6652.2	6622.2	6637.7	6574.9	6359.1	6001.3	5599.7	5342.0	5302.8	5040.6	4616.3
42.5°	6933.6	6923.6	7016.4	7086.5	6998.2	6712.3	6144.2	5790.9	5736.3	5437.6	4933.2
45°	6996.4	6985.5	7151.2	7408.0	7531.8	7414.3	6736.0	6263.5	6196.9	5852.9	5272.8
47.5°	6851.6	6829.8	7072.9	7478.1	7875.1	8081.7	7377.0	6776.1	6679.5	6257.1	5621.5
50°	6416.4	6395.5	6763.4	7301.5	7990.7	8535.2	8072.7	7319.6	7172.1	6690.5	5973.9
52.5°	5470.4	5480.4	6056.7	6796.1	7838.7	8817.5	8671.8	7892.4	7714.8	7133.9	6304.5
55°	4261.2	4283.1	4991.4	5805.5	7230.5	8774.6	9080.6	8482.4	8305.8	7551.0	6645.9
57.5°	3051.1	3147.7	3811.5	4617.2	6062.3	8096.4	9169.9	9043.3	8872.1	8006.2	6980.0
60°	1977.6	1995.0	2677.8	3490.0	4616.3	6890.8	8988.6	9468.4	9334.7	8470.5	7259.6
62.5°	1267.4	1279.3	1695.4	2441.1	3322.4	5097.9	8378.6	9653.3	9612.3	8777.4	7528.1
65°	931.4	922.4	1139.1	1613.5	2238.1	3144.0	7194.0	9564.1	9645.1	8969.5	7750.3
67.5°	777.6	764.9	871.4	1117.2	1648.9	1785.6	5322.9	8984.1	9280.9	8947.6	7913.3
70°	708.4	697.4	762.1	829.5	1286.6	1195.6	2683.2	7810.4	8267.5	8699.1	7886.9
72.5°	600.0	580.9	669.2	736.6	1000.7	916.9	1109.0	5999.4	6556.6	7902.3	7515.4
75°	465.2	452.5	528.1	648.3	752.0	715.7	701.1	3643.0	4251.2	6111.4	6574.9
77.5°	368.8	351.5	420.7	505.3	676.5	540.0	510.8	1568.9	2171.6	3901.6	4919.5
80°	277.7	262.2	319.6	399.7	519.9	407.0	330.6	640.1	818.6	1976.7	2473.8
82.5°	197.6	183.9	223.0	293.2	349.6	365.1	203.1	358.7	403.3	762.1	552.7
85°	126.6	118.4	149.3	183.9	222.1	234.9	123.8	187.6	205.8	314.2	230.3
87.5°	69.2	56.5	80.2	85.6	102.9	93.8	59.1	68.3	73.8	113.8	97.4
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: P964013
 CATALOG NUMBER: NAV-SB3B-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1941.2	1943.9	1953.0	1955.8	1962.2	1970.4	1975.8	1981.3	1981.3	1986.8	1986.8
5°	1967.6	1974.0	1993.1	2003.2	2019.6	2036.0	2045.9	2057.8	2065.1	2068.7	2070.5
7.5°	2018.6	2028.7	2055.9	2073.3	2101.5	2124.2	2139.7	2156.1	2159.8	2169.7	2166.1
10°	2087.8	2099.6	2130.6	2163.4	2197.1	2225.3	2239.8	2251.7	2256.2	2258.1	2253.6
12.5°	2167.1	2184.4	2224.4	2264.4	2300.0	2324.6	2328.2	2325.4	2312.7	2301.7	2301.7
15°	2264.4	2279.9	2324.6	2368.3	2402.8	2407.4	2384.7	2370.1	2354.6	2351.9	2351.9
17.5°	2381.0	2389.2	2430.2	2472.9	2475.7	2460.2	2426.5	2412.8	2398.3	2388.2	2389.2
20°	2516.7	2513.9	2543.0	2561.3	2542.2	2494.8	2443.8	2421.0	2406.5	2394.7	2395.5
22.5°	2678.7	2657.8	2654.1	2649.6	2598.6	2499.4	2430.2	2401.1	2378.3	2361.9	2367.3
25°	2914.6	2834.4	2778.9	2747.9	2633.2	2474.8	2386.5	2321.8	2279.0	2250.8	2261.8
27.5°	3209.6	3074.8	2934.6	2859.0	2633.2	2424.7	2280.8	2176.2	2106.1	2076.9	2091.4
30°	3490.9	3349.8	3143.1	2992.9	2626.9	2342.7	2110.6	1964.9	1882.9	1853.8	1871.1
32.5°	3731.3	3577.5	3364.4	3139.5	2611.4	2209.8	1899.3	1738.2	1659.0	1624.3	1641.6
35°	3954.3	3790.4	3586.6	3300.6	2570.4	2014.9	1667.2	1544.3	1455.9	1400.4	1418.6
37.5°	4182.9	3988.1	3796.9	3446.4	2496.6	1787.4	1488.7	1384.0	1280.2	1205.5	1225.6
40°	4431.5	4198.4	4021.8	3532.8	2375.5	1570.6	1350.3	1254.7	1144.5	1065.3	1080.8
42.5°	4722.0	4450.7	4272.1	3577.5	2209.8	1416.8	1260.1	1166.3	1062.6	997.9	1010.6
45°	5025.2	4728.3	4500.7	3576.5	2025.0	1344.8	1231.0	1138.2	1023.5	956.0	967.0
47.5°	5342.9	5018.8	4698.3	3518.2	1864.8	1354.8	1214.6	1077.2	950.6	885.0	894.1
50°	5661.6	5336.6	4889.5	3408.9	1796.4	1333.0	1153.6	991.6	842.2	783.0	786.7
52.5°	5977.6	5674.3	5054.3	3253.2	1727.2	1251.9	1075.3	880.5	797.7	756.7	756.7
55°	6295.3	6008.5	5233.6	3026.5	1554.2	1157.2	944.2	838.6	762.1	724.8	721.1
57.5°	6614.0	6394.6	5403.9	2799.9	1336.6	1040.7	872.3	787.6	726.6	694.7	689.3
60°	6945.4	6836.1	5579.7	2591.3	1121.8	891.4	819.5	746.6	684.7	649.2	646.5
62.5°	7286.8	7322.4	5717.1	2322.8	924.1	800.3	772.1	697.4	637.3	603.6	602.8
65°	7631.0	7791.3	5807.2	1950.4	749.4	713.8	721.1	643.7	582.7	553.6	552.7
67.5°	7890.6	8129.1	5781.8	1476.0	614.6	631.9	657.4	587.3	529.9	507.2	508.1
70°	7919.7	8089.0	5530.5	1010.6	514.4	551.8	586.4	531.8	472.5	456.1	457.0
72.5°	7531.8	7542.8	4830.3	660.1	435.2	484.4	511.7	475.3	417.9	401.5	400.7
75°	6514.8	6237.9	3546.5	435.2	364.2	416.2	441.6	416.2	360.6	364.2	351.5
77.5°	4935.9	4417.9	2153.4	309.5	304.1	349.6	384.3	366.0	318.7	357.8	315.1
80°	2543.0	2390.1	960.6	231.2	240.4	279.5	315.9	292.2	252.3	240.4	219.5
82.5°	582.7	677.4	378.7	165.7	173.9	201.2	241.3	219.5	181.2	152.9	151.2
85°	204.0	223.0	167.5	103.8	102.0	125.7	163.9	146.6	122.9	98.3	103.8
87.5°	64.7	84.7	62.8	41.9	43.7	56.5	75.5	69.2	57.4	37.3	39.2
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)