

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: P966068

Luminaire Tested: **NAV-SB4B-722-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966068  
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-SB4B-722-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19072.2 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

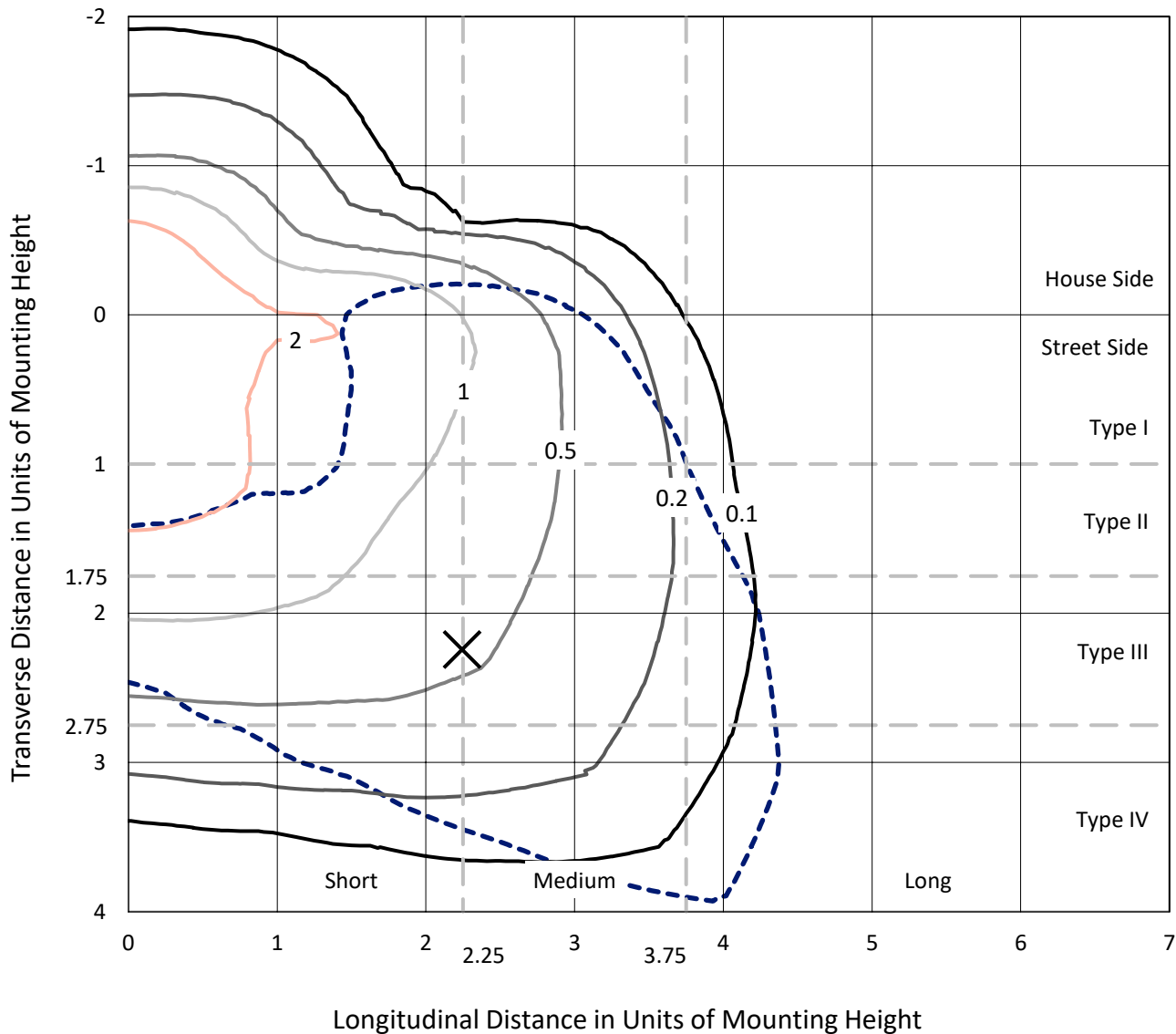
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

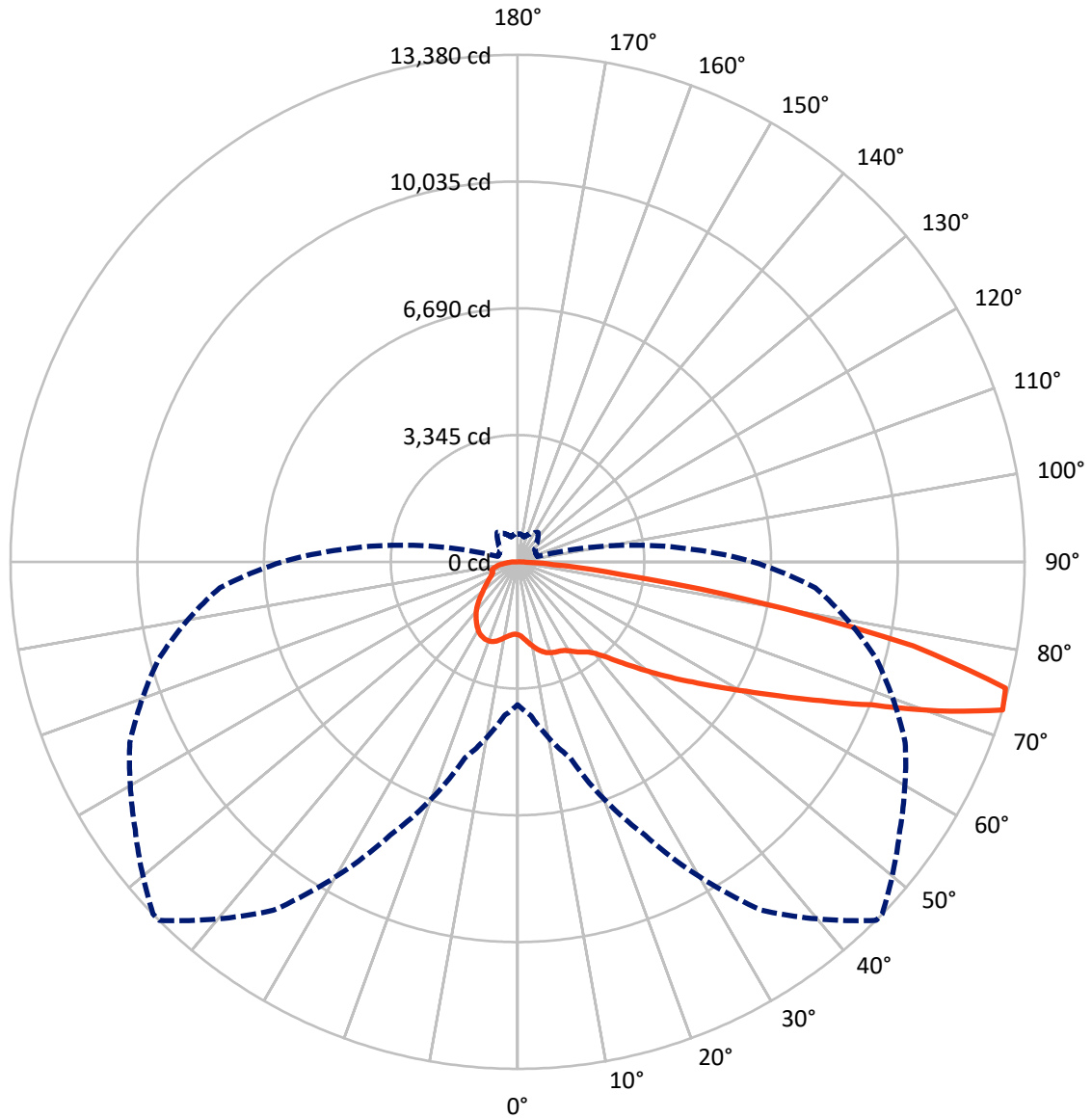
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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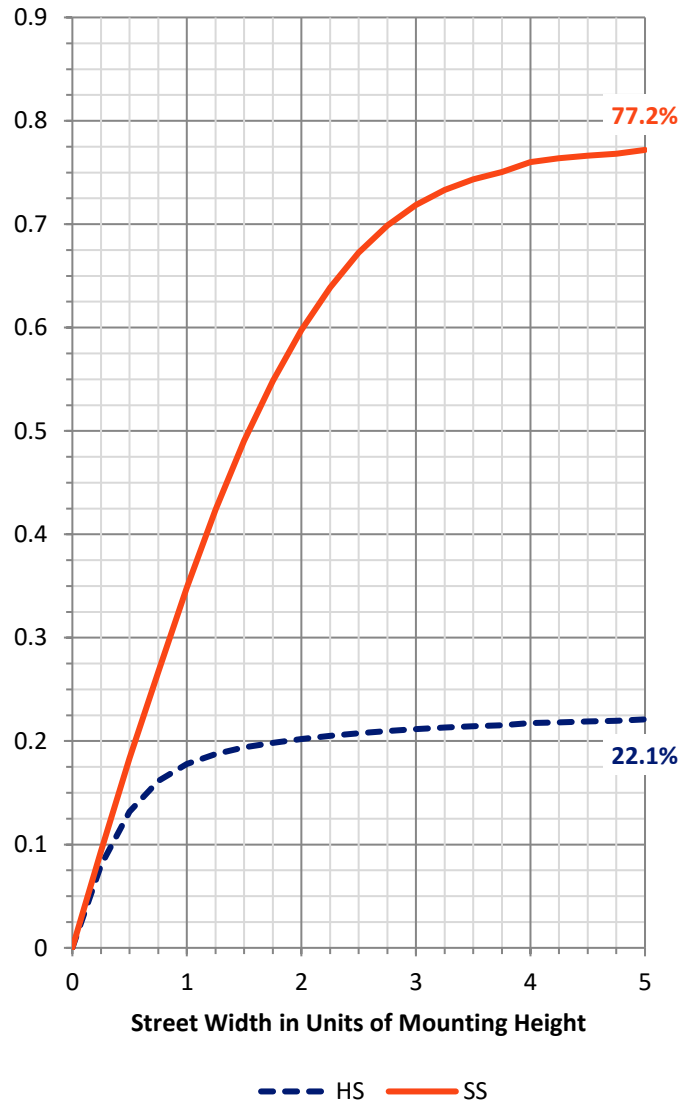
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4311.6	0.0	4311.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	14760.6	0.0	14760.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	19072.2	0.0	19072.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.8	1.0
10°-20°	652.9	3.4
20°-30°	1135.8	6.0
30°-40°	1628.2	8.5
40°-50°	2292.6	12.0
50°-60°	3511.6	18.4
60°-70°	5087.0	26.7
70°-80°	4062.3	21.3
80°-90°	505.9	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°	19072.2	100.0
0°-180°	19072.2	100.0

**Coefficient of Utilization**

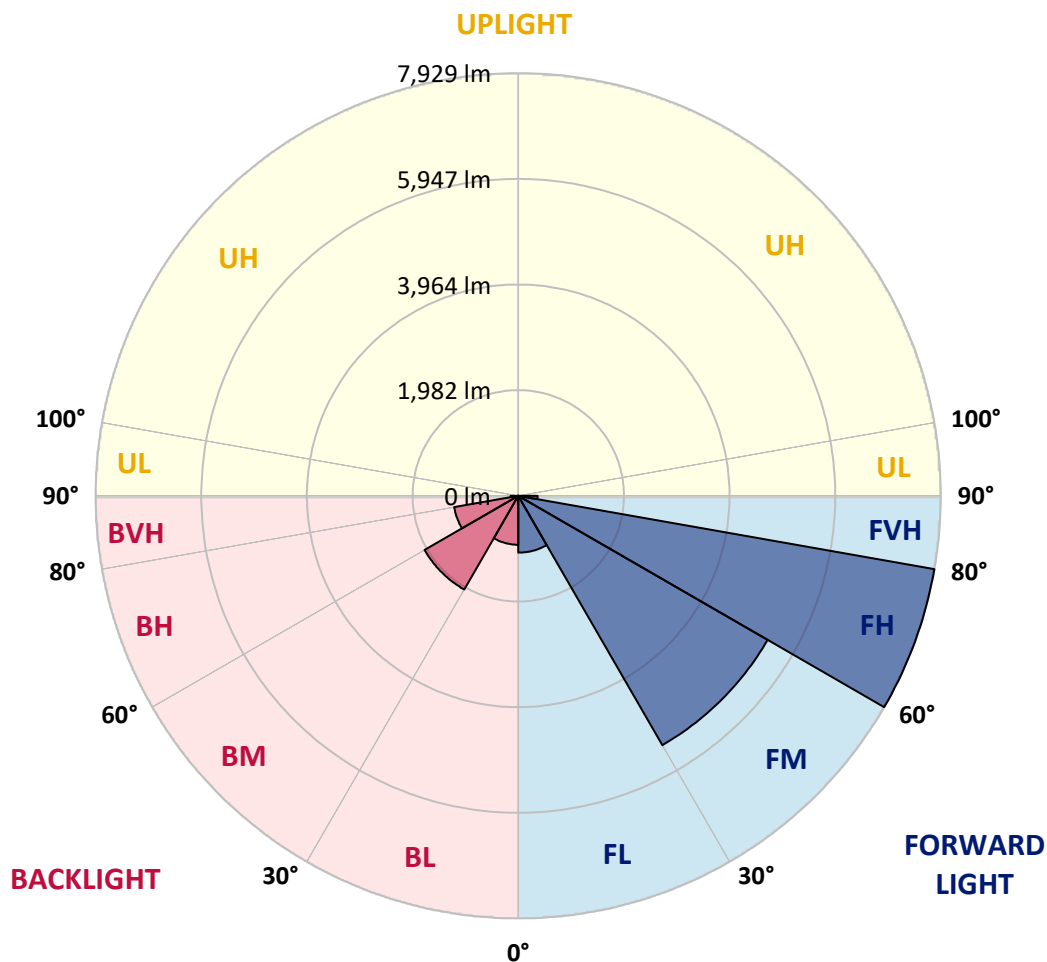


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1066.5	5.6			
FM (30°-60°)	5402.2	28.3			
FH (60°-80°)	7928.9	41.6			G4/12000
FVH (80°-90°)	363.0	1.9			G3/500
BL (0°-30°)	918.0	4.8	B2/1000		
BM (30°-60°)	2030.1	10.6	B2/2500		
BH (60°-80°)	1220.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	143.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0
2.5°	1999.4	2012.4	2000.4	1989.3	1984.3	1971.3	1970.3	1962.2	1957.1	1943.1	1939.1
5°	2139.0	2156.1	2136.0	2113.9	2093.8	2061.7	2057.7	2034.5	2008.4	1978.2	1961.2
7.5°	2296.7	2311.8	2288.7	2255.6	2220.4	2167.2	2166.1	2123.9	2082.8	2031.5	2002.3
10°	2434.4	2454.5	2423.3	2378.1	2333.9	2273.7	2266.6	2218.4	2166.1	2099.8	2055.6
12.5°	2555.9	2570.1	2539.8	2484.6	2433.4	2373.1	2364.1	2310.9	2252.5	2177.2	2120.9
15°	2652.4	2670.5	2630.4	2571.0	2516.8	2457.5	2449.4	2401.3	2342.9	2263.6	2191.2
17.5°	2715.7	2730.8	2689.6	2623.3	2571.0	2521.8	2515.8	2475.6	2424.3	2344.0	2266.6
20°	2739.8	2755.9	2712.7	2645.4	2597.1	2559.0	2555.9	2526.8	2491.7	2418.3	2340.0
22.5°	2763.9	2779.0	2722.7	2652.4	2610.3	2586.1	2585.2	2566.0	2551.9	2491.7	2415.3
25°	2861.4	2865.4	2790.0	2688.6	2628.3	2607.2	2606.2	2605.2	2611.2	2564.0	2496.7
27.5°	2945.7	2944.8	2880.5	2785.0	2691.6	2647.4	2646.3	2656.5	2675.6	2636.3	2581.1
30°	3069.4	3058.3	2981.9	2882.5	2797.1	2728.8	2722.7	2713.7	2728.8	2697.6	2665.5
32.5°	3331.6	3296.4	3172.9	2996.1	2884.6	2832.3	2824.2	2768.0	2774.0	2754.9	2738.8
35°	3707.3	3661.2	3496.4	3211.0	2993.0	2918.7	2914.7	2843.4	2831.3	2814.1	2820.2
37.5°	4154.4	4097.2	3905.2	3522.5	3179.9	3019.1	3013.1	2948.8	2899.6	2881.5	2915.6
40°	4603.6	4531.2	4372.4	3902.3	3455.2	3186.9	3167.9	3070.4	3014.1	2984.0	3056.3
42.5°	5039.6	4979.3	4843.6	4328.3	3794.8	3432.1	3389.9	3223.1	3180.9	3152.8	3283.4
45°	5425.4	5371.2	5271.7	4783.4	4192.7	3765.6	3724.4	3452.2	3439.1	3439.1	3628.0
47.5°	5738.9	5726.8	5621.3	5247.6	4661.8	4145.4	4074.1	3770.7	3805.8	3860.0	4117.3
50°	6086.6	6053.3	5940.8	5704.7	5213.5	4580.4	4522.2	4161.5	4293.1	4441.8	4824.6
52.5°	6406.0	6424.1	6298.5	6181.0	5836.3	5065.8	4963.3	4622.6	4907.0	5153.1	5653.5
55°	6734.6	6735.6	6700.4	6684.3	6489.4	5602.2	5489.7	5177.3	5629.4	5934.7	6620.0
57.5°	7043.0	7045.0	7097.2	7238.9	7247.0	6221.1	6093.5	5858.4	6432.1	6743.6	7616.7
60°	7318.3	7332.3	7475.0	7806.6	7913.1	6930.4	6809.9	6663.2	7262.0	7575.5	8664.5
62.5°	7410.7	7461.9	7779.4	8250.6	8571.2	7800.6	7682.0	7594.5	8134.1	8425.5	9540.7
65°	7253.9	7371.5	7985.4	8617.4	9248.3	8834.4	8716.8	8621.4	9040.3	9314.6	10260.0
67.5°	6869.1	7020.8	7973.4	9002.2	10070.2	10078.2	9968.7	9744.7	10011.9	10117.4	10494.2
70°	5855.4	6082.5	7271.0	9145.9	11013.6	11779.2	11673.7	11097.0	10981.4	10471.1	9835.1
72.5°	3772.7	4078.1	5354.1	7963.3	11223.5	13379.6	13373.7	12317.7	11287.9	9783.8	7888.0
75°	1376.5	1563.3	2487.7	4998.4	9421.1	13298.2	13337.5	12108.7	10304.2	7557.4	4914.1
77.5°	501.3	548.6	811.8	1921.0	5794.1	10669.9	10751.3	9680.3	7334.4	3792.8	1947.1
80°	263.2	289.4	415.9	745.5	2482.7	6336.7	6464.3	5752.9	3447.2	1142.4	583.7
82.5°	145.7	157.7	233.1	404.9	1118.3	2709.7	2786.1	2272.6	1212.7	484.3	241.1
85°	78.4	83.4	109.5	221.0	546.5	939.4	960.5	679.2	483.3	284.3	116.5
87.5°	23.1	28.1	36.2	70.3	214.0	210.9	216.0	134.6	190.9	143.7	38.1
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°	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0
2.5°	1933.0	1930.1	1919.0	1914.0	1907.9	1906.9	1911.9	1913.0	1914.0	1915.0	1919.0
5°	1951.1	1941.0	1931.0	1925.1	1927.0	1928.0	1938.1	1945.1	1950.2	1954.2	1956.2
7.5°	1986.3	1978.2	1961.2	1960.2	1963.2	1972.2	1985.3	2001.4	2010.4	2017.4	2019.5
10°	2038.5	2023.5	2003.4	2006.4	2012.4	2025.5	2052.6	2065.7	2080.8	2093.8	2090.8
12.5°	2091.8	2078.7	2055.6	2057.7	2067.7	2090.8	2116.9	2133.0	2143.1	2153.1	2157.1
15°	2161.1	2138.0	2112.9	2112.9	2131.0	2156.1	2168.2	2181.2	2187.2	2198.3	2202.3
17.5°	2232.4	2202.3	2169.2	2167.2	2189.3	2201.3	2208.4	2210.3	2212.4	2224.5	2228.5
20°	2303.8	2270.7	2223.4	2219.4	2224.5	2222.4	2221.4	2219.4	2222.4	2237.5	2243.5
22.5°	2374.1	2336.0	2270.7	2252.5	2238.5	2219.4	2218.4	2217.4	2219.4	2234.5	2244.5
25°	2456.5	2410.3	2322.9	2268.6	2221.4	2195.2	2198.3	2199.3	2201.3	2213.4	2229.5
27.5°	2545.9	2494.6	2371.1	2263.6	2178.2	2160.1	2155.1	2158.1	2165.1	2184.3	2203.3
30°	2635.4	2575.1	2415.3	2243.5	2123.9	2098.8	2082.8	2089.8	2111.9	2131.0	2152.1
32.5°	2716.8	2656.5	2450.5	2199.3	2054.6	2015.5	1994.3	2003.4	2025.5	2032.5	2057.7
35°	2812.2	2743.8	2465.5	2128.9	1979.3	1919.0	1890.8	1877.8	1888.9	1881.8	1903.9
37.5°	2918.7	2847.3	2463.6	2036.6	1890.8	1821.5	1782.4	1733.1	1710.0	1685.9	1701.0
40°	3076.4	2973.9	2439.4	1925.1	1781.3	1718.0	1647.7	1564.4	1512.1	1464.8	1467.9
42.5°	3291.4	3149.7	2395.2	1802.5	1657.7	1598.5	1503.1	1405.6	1323.2	1244.9	1237.8
45°	3611.9	3379.8	2340.0	1671.9	1524.2	1465.9	1362.4	1252.9	1159.5	1058.9	1046.9
47.5°	4074.1	3689.3	2287.7	1523.1	1383.4	1330.2	1236.8	1135.3	1024.8	927.3	916.2
50°	4709.1	4133.3	2239.5	1378.4	1244.9	1204.7	1130.3	1026.8	915.3	836.9	831.9
52.5°	5516.9	4737.1	2219.4	1238.8	1115.2	1100.1	1040.9	944.4	839.0	772.6	767.6
55°	6444.2	5459.6	2219.4	1105.2	1001.7	1006.8	965.6	876.1	784.6	725.4	719.3
57.5°	7390.7	6191.0	2179.3	981.6	905.3	926.3	900.3	821.8	739.4	678.1	668.1
60°	8262.7	6803.8	2016.5	869.1	819.8	853.0	835.9	768.6	668.1	616.8	608.8
62.5°	8932.9	7149.5	1702.9	779.6	749.5	787.7	778.7	698.2	655.1	634.0	626.9
65°	9268.5	7093.2	1302.1	700.3	690.2	749.5	730.4	727.4	693.2	669.1	661.1
67.5°	9062.4	6609.0	944.4	642.0	656.1	714.3	787.7	799.7	736.5	689.2	681.2
70°	8159.2	5732.8	703.3	586.7	612.8	715.3	898.2	836.9	722.4	667.2	658.0
72.5°	6207.1	4275.1	545.5	528.5	556.6	720.4	947.4	819.8	682.2	737.5	731.4
75°	3549.6	2346.9	438.1	457.2	486.3	673.1	922.3	775.6	651.1	677.2	677.2
77.5°	1353.3	902.2	361.7	386.8	390.8	587.7	882.1	772.6	619.9	604.9	551.6
80°	469.2	352.7	299.4	307.4	302.4	522.4	845.9	672.2	507.4	454.2	439.0
82.5°	191.9	175.8	237.1	227.0	215.0	405.9	683.2	549.6	414.9	366.7	362.7
85°	83.4	111.5	156.7	137.7	124.5	281.4	547.6	465.1	350.7	302.4	301.5
87.5°	17.1	42.2	66.3	62.3	64.3	187.9	388.8	330.6	248.2	185.8	145.7
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)