

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: P963412

Luminaire Tested: **NAV-SB3A-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11137.7 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

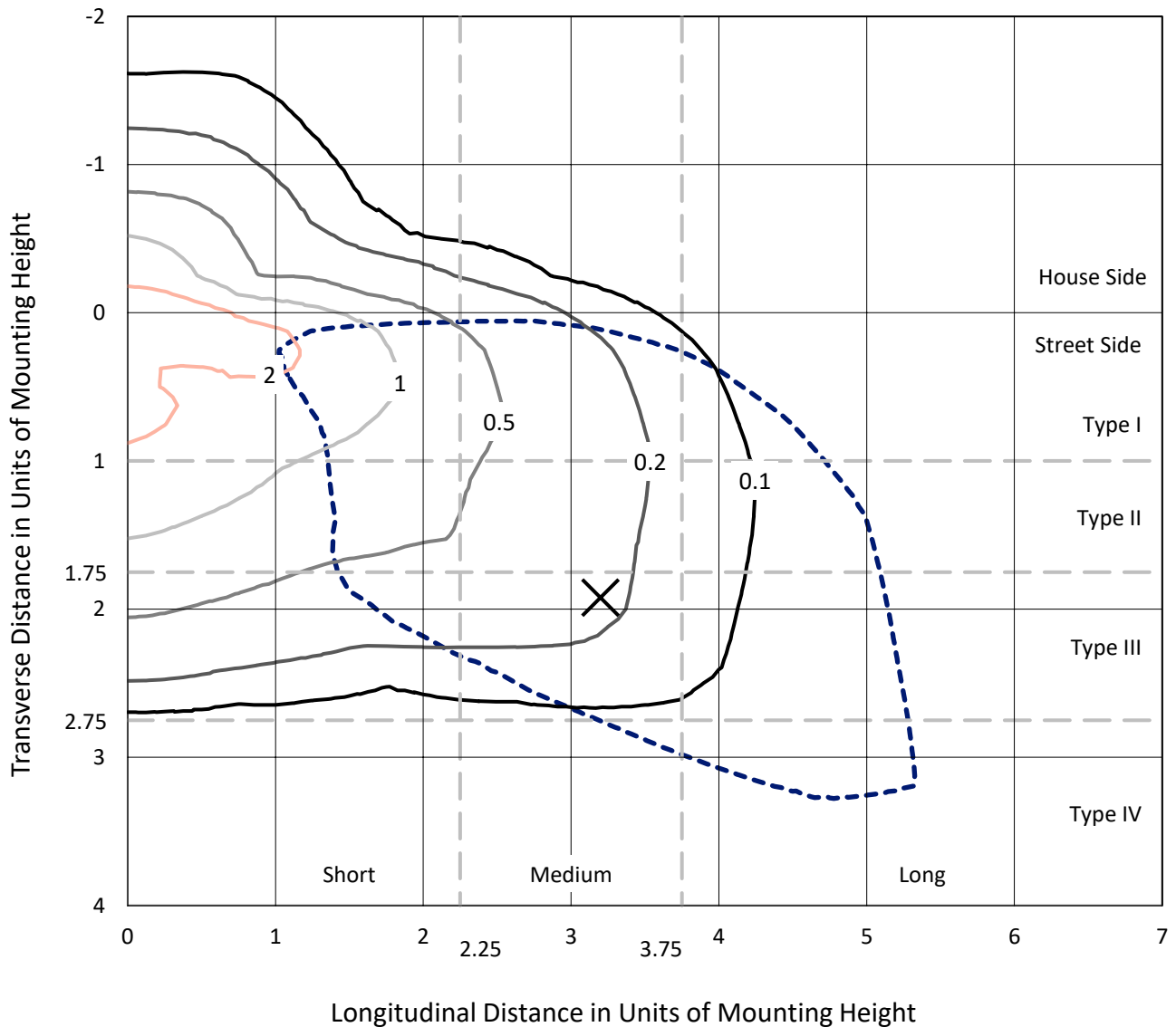
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

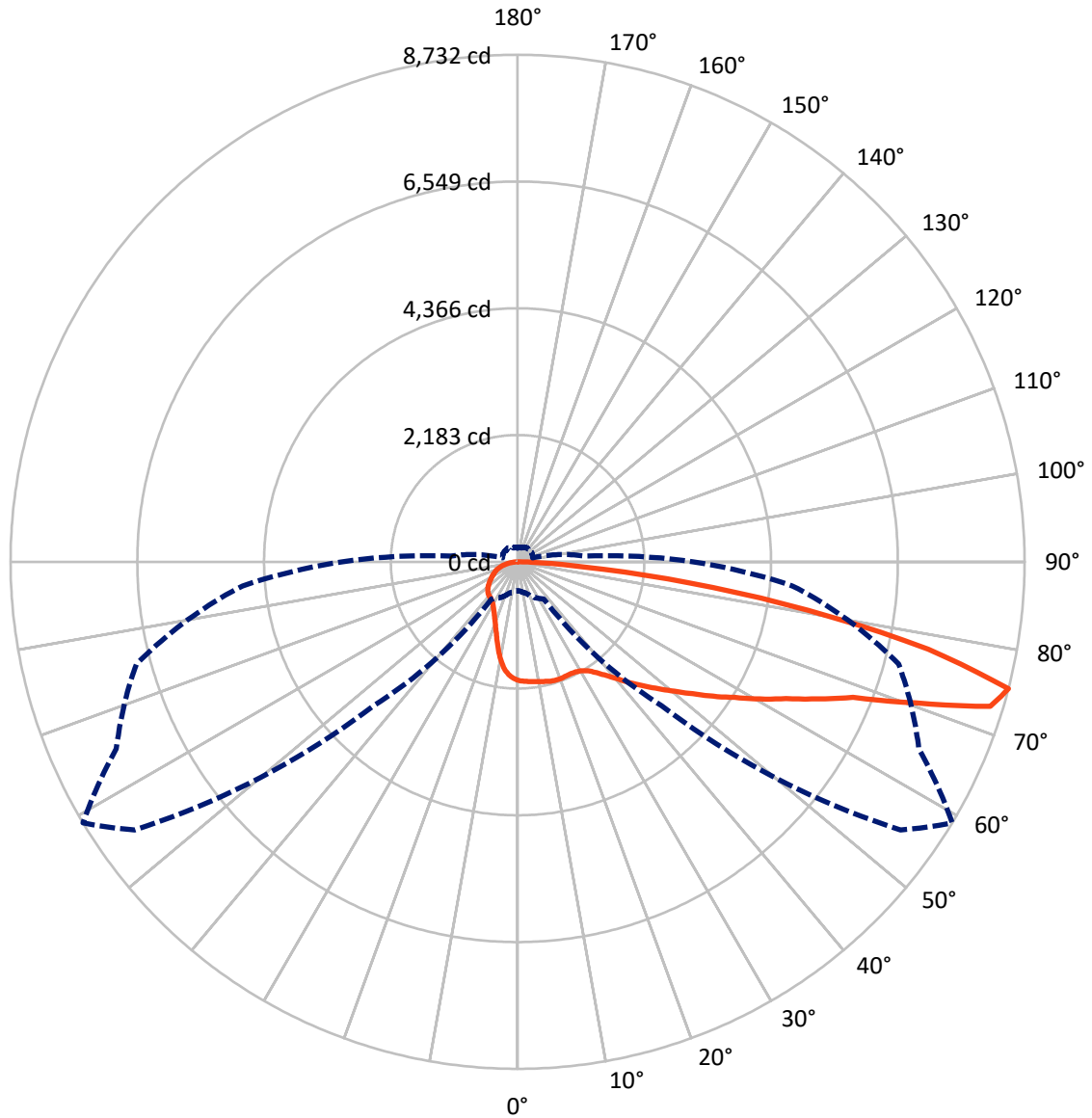
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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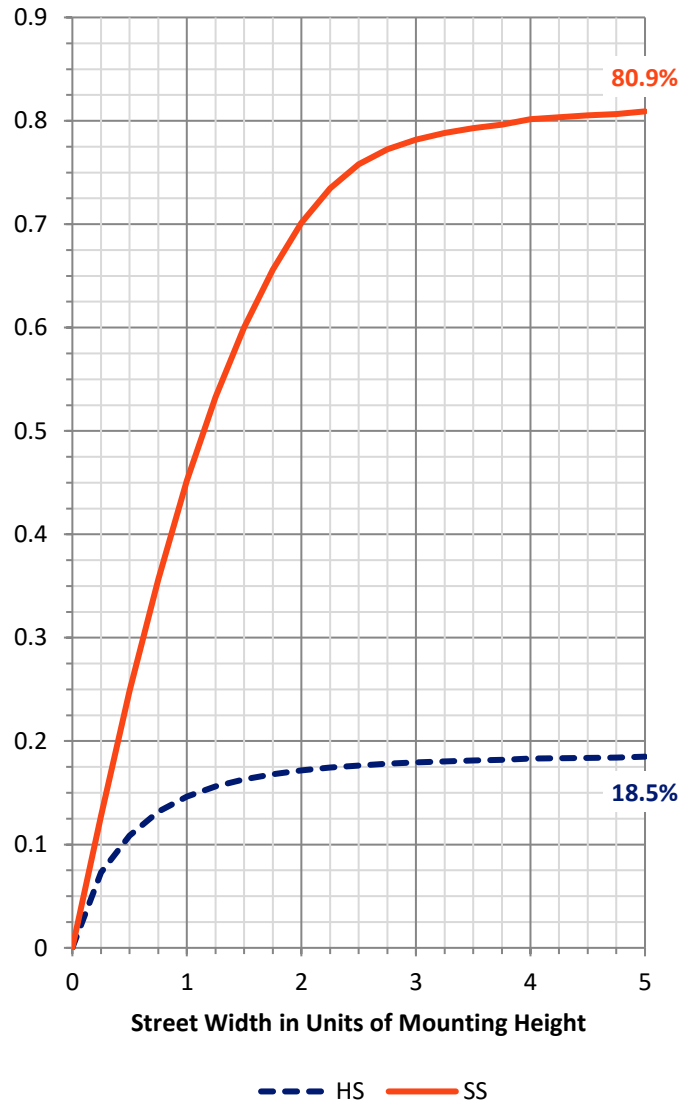
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2088.9	0.0	2088.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9048.7	0.0	9048.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	11137.7	0.0	11137.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	1.6
10°-20°	468.5	4.2
20°-30°	711.7	6.4
30°-40°	1057.9	9.5
40°-50°	1573.2	14.1
50°-60°	2135.5	19.2
60°-70°	2607.1	23.4
70°-80°	2046.0	18.4
80°-90°	354.4	3.2
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°	11137.7	100.0
0°-180°	11137.7	100.0

Coefficient of Utilization

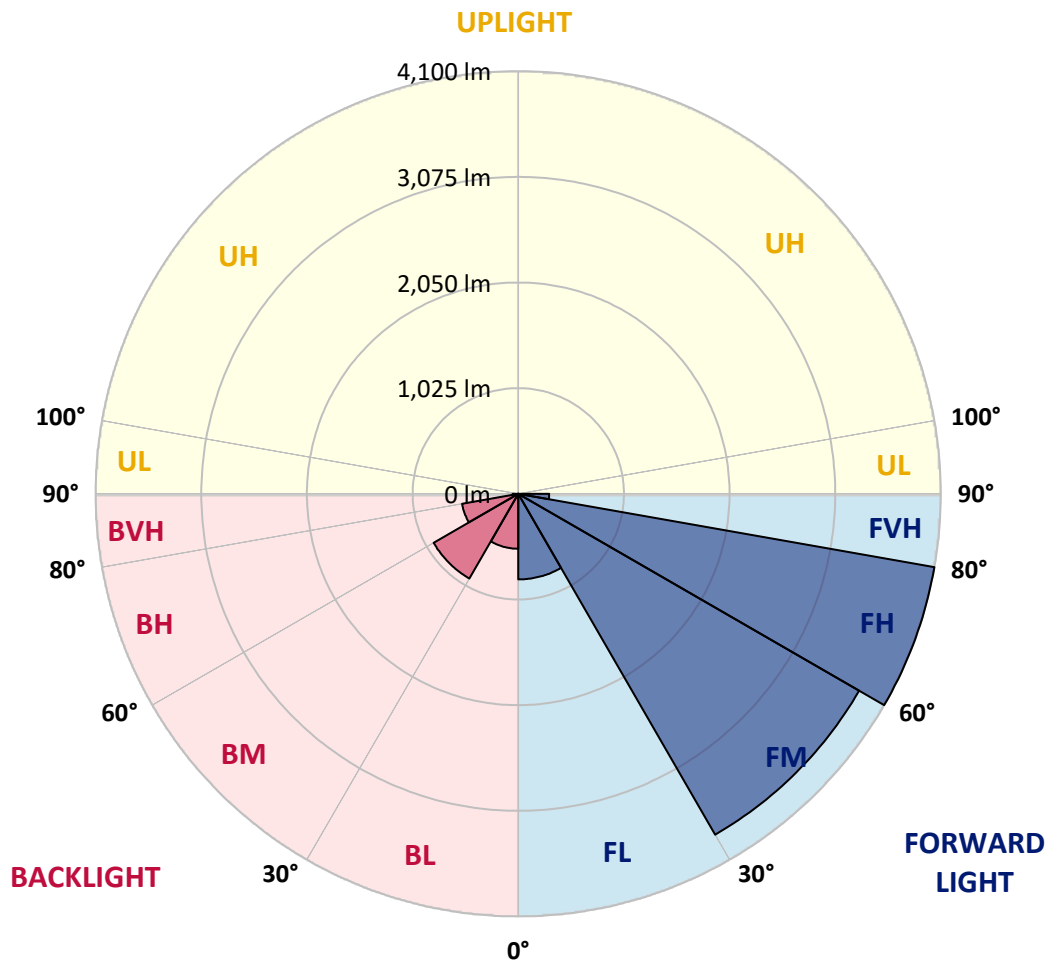


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	830.4	7.5			
FM (30°-60°)	3818.4	34.3			
FH (60°-80°)	4099.7	36.8			G2/5000
FVH (80°-90°)	300.2	2.7			G3/500
BL (0°-30°)	533.1	4.8	B2/1000		
BM (30°-60°)	948.2	8.5	B1/1000		
BH (60°-80°)	553.4	5.0	B2/1000		G2/1000
BVH (80°-90°)	54.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3
2.5°	2061.7	2054.5	2061.7	2058.7	2057.5	2055.1	2055.6	2059.8	2057.5	2060.5	2050.3
5°	2047.8	2043.6	2050.9	2049.1	2056.9	2058.1	2065.9	2070.6	2073.7	2074.3	2066.5
7.5°	2025.1	2020.9	2031.1	2039.5	2056.3	2061.1	2077.3	2085.1	2089.3	2096.4	2085.1
10°	1941.9	1940.0	1965.2	1997.0	2036.5	2061.1	2085.7	2098.8	2105.5	2124.6	2111.4
12.5°	1794.5	1796.8	1829.8	1890.9	1969.9	2049.1	2095.2	2114.4	2124.6	2148.5	2142.6
15°	1653.6	1653.0	1689.0	1754.3	1865.2	1996.4	2100.0	2132.9	2150.3	2185.7	2180.9
17.5°	1572.1	1569.8	1594.9	1644.6	1747.7	1915.5	2088.0	2143.2	2180.3	2224.7	2220.5
20°	1557.2	1552.4	1565.6	1590.2	1663.3	1826.8	2056.9	2143.2	2204.3	2261.8	2259.4
22.5°	1611.7	1603.9	1598.5	1595.5	1627.9	1753.7	2021.5	2136.0	2239.6	2315.1	2310.9
25°	1721.4	1709.4	1681.8	1654.9	1645.2	1720.8	1990.3	2134.2	2292.3	2387.0	2371.4
27.5°	1898.7	1883.7	1828.0	1763.3	1705.2	1737.5	1976.6	2144.9	2350.4	2463.1	2431.9
30°	2118.6	2102.4	2032.3	1932.8	1828.6	1799.8	1993.9	2176.7	2424.7	2564.3	2503.3
32.5°	2315.7	2297.7	2237.8	2136.5	1995.8	1907.7	2049.1	2237.3	2541.6	2705.2	2610.5
35°	2490.6	2469.6	2415.7	2322.3	2200.7	2059.2	2148.5	2344.5	2707.5	2934.1	2756.1
37.5°	2662.0	2637.4	2578.7	2479.9	2394.8	2261.1	2285.8	2482.2	2928.0	3212.0	2949.0
40°	2853.7	2818.3	2747.1	2649.4	2566.7	2497.8	2466.0	2651.3	3152.1	3522.4	3189.9
42.5°	3039.4	3005.9	2920.8	2837.6	2733.9	2714.1	2675.1	2849.0	3397.2	3863.3	3434.3
45°	3239.6	3199.4	3096.4	2991.0	2925.7	2857.9	2877.7	3046.7	3637.4	4210.8	3690.7
47.5°	3427.1	3382.2	3260.5	3143.2	3107.2	2979.0	3063.4	3264.1	3887.3	4563.1	3944.8
50°	3528.4	3484.1	3382.8	3276.7	3248.5	3128.2	3264.7	3503.2	4149.1	4914.2	4188.7
52.5°	3612.8	3565.0	3432.5	3373.8	3365.4	3290.6	3512.8	3776.4	4410.9	5224.5	4424.1
55°	3702.7	3649.4	3480.5	3427.7	3466.0	3472.7	3807.0	4086.2	4687.7	5527.1	4646.4
57.5°	3806.3	3738.7	3526.6	3473.2	3564.3	3686.0	4144.9	4407.3	4959.8	5807.5	4844.2
60°	3904.0	3835.8	3615.3	3545.8	3670.4	3933.4	4532.5	4796.2	5267.7	6057.3	5031.0
62.5°	3923.2	3866.9	3686.0	3685.4	3814.1	4222.2	4991.5	5188.7	5536.7	6304.3	5198.8
65°	3591.3	3555.9	3448.7	3680.0	4020.3	4638.0	5502.6	5690.7	5878.8	6519.9	5346.2
67.5°	2733.3	2738.1	2730.3	3176.7	3853.7	5235.4	6242.6	6228.1	6301.2	6762.0	5515.7
70°	1249.8	1278.0	1461.3	2192.9	3087.4	5304.3	7466.0	7279.7	6831.5	7075.4	5662.5
72.5°	675.3	696.8	771.7	1062.3	1856.2	4715.9	8380.3	8512.7	7536.7	7286.2	5501.4
75°	495.5	507.5	559.6	675.3	779.5	3505.0	8052.5	8732.0	7624.8	6794.3	4750.7
77.5°	370.8	376.3	418.8	535.0	399.0	1847.8	6434.2	7231.7	6527.1	5582.3	3509.2
80°	269.1	275.0	306.8	401.4	279.8	675.9	4418.2	5076.0	4470.2	3558.3	1749.0
82.5°	185.7	188.1	201.9	273.2	195.4	262.4	2506.8	2976.6	2495.5	1248.7	472.1
85°	112.0	115.0	121.1	159.4	110.8	124.6	1082.1	1119.2	745.9	298.4	146.8
87.5°	46.1	49.1	53.9	67.1	43.8	34.7	178.6	224.1	139.6	87.4	45.5
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°	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3
2.5°	2047.3	2043.1	2031.8	2016.2	2001.7	1983.8	1976.0	1969.4	1963.4	1952.0	1946.7
5°	2059.8	2048.5	2017.9	1978.4	1933.5	1884.4	1836.4	1803.4	1775.3	1754.3	1737.0
7.5°	2079.0	2057.5	2001.7	1920.8	1817.8	1712.4	1617.1	1549.4	1498.4	1479.9	1447.5
10°	2098.8	2073.1	1976.0	1833.4	1655.5	1493.1	1366.6	1297.1	1256.4	1243.2	1222.8
12.5°	2122.2	2084.4	1935.8	1711.7	1473.9	1295.9	1185.7	1144.9	1124.0	1116.8	1118.6
15°	2156.3	2094.0	1875.3	1559.5	1300.7	1152.2	1080.9	1052.7	1041.9	1041.3	1043.8
17.5°	2182.1	2095.8	1781.2	1396.6	1167.8	1065.3	1006.6	995.8	1003.0	1013.7	1017.9
20°	2210.8	2079.6	1657.8	1248.0	1074.3	989.2	964.6	971.8	989.2	1004.8	1010.1
22.5°	2231.2	2050.3	1508.7	1132.4	993.4	945.5	944.2	959.2	968.8	976.6	980.8
25°	2249.2	2000.6	1350.4	1035.4	926.9	919.1	932.2	927.5	920.9	927.5	931.7
27.5°	2262.4	1922.1	1209.1	950.3	880.2	901.1	893.3	882.5	881.9	885.5	891.5
30°	2258.2	1817.2	1092.9	869.4	847.2	867.6	849.0	847.2	845.4	847.2	853.8
32.5°	2258.2	1698.0	1003.6	813.6	826.3	818.5	816.6	812.4	805.2	804.6	812.4
35°	2270.8	1578.7	926.9	783.7	808.8	790.3	791.5	781.3	766.3	759.1	766.3
37.5°	2296.5	1482.9	850.7	769.3	778.3	777.7	772.8	755.5	729.2	706.4	714.2
40°	2358.8	1454.7	798.7	762.7	763.9	771.1	758.5	725.0	665.0	627.9	632.7
42.5°	2456.5	1502.0	787.3	746.5	754.3	761.5	737.0	659.1	616.5	594.4	594.4
45°	2580.5	1584.8	811.8	723.1	731.5	744.2	671.1	633.9	614.7	615.3	618.3
47.5°	2737.5	1671.6	857.4	702.8	698.6	705.8	627.3	604.5	578.2	584.8	601.6
50°	2919.0	1759.7	900.6	675.3	662.0	638.7	599.1	577.6	544.1	528.5	532.7
52.5°	3115.6	1844.8	917.9	641.6	622.5	595.5	579.9	553.6	512.9	487.1	486.5
55°	3301.9	1922.1	898.7	601.6	583.0	562.0	559.6	543.5	499.7	463.7	463.7
57.5°	3478.0	1986.8	850.7	560.8	542.8	530.2	546.4	538.6	483.5	437.4	435.0
60°	3627.3	2031.1	781.3	519.5	506.9	500.3	524.9	522.4	460.7	409.2	407.4
62.5°	3745.9	2048.5	704.6	479.9	476.9	464.9	494.9	494.9	431.9	381.6	379.9
65°	3838.7	2031.8	626.7	441.0	447.0	429.0	458.4	454.8	401.4	357.1	354.6
67.5°	3920.8	1976.6	540.4	402.6	416.5	393.6	420.0	411.6	367.9	332.5	330.2
70°	3957.3	1848.4	442.2	364.3	381.1	358.9	381.6	366.1	330.2	306.2	301.3
72.5°	3663.8	1536.2	348.1	324.1	338.6	320.5	340.3	322.4	289.4	278.6	269.6
75°	3031.1	1152.7	267.8	280.4	291.2	277.4	290.6	277.4	247.4	255.2	233.1
77.5°	2201.3	778.3	204.9	234.3	239.0	231.9	243.2	228.3	201.3	199.5	190.5
80°	1094.6	455.9	160.6	185.1	183.4	178.6	191.8	184.5	161.7	171.4	169.5
82.5°	316.9	195.4	116.8	130.0	126.4	127.6	137.2	140.8	210.9	209.1	213.9
85°	99.4	76.7	70.1	72.5	68.9	70.7	80.9	160.6	148.6	86.9	94.1
87.5°	25.7	26.3	17.4	18.6	19.2	22.8	25.7	97.7	46.7	30.5	32.4
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)