

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: P962374

Luminaire Tested: **NAV-SB2C-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13018.5 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

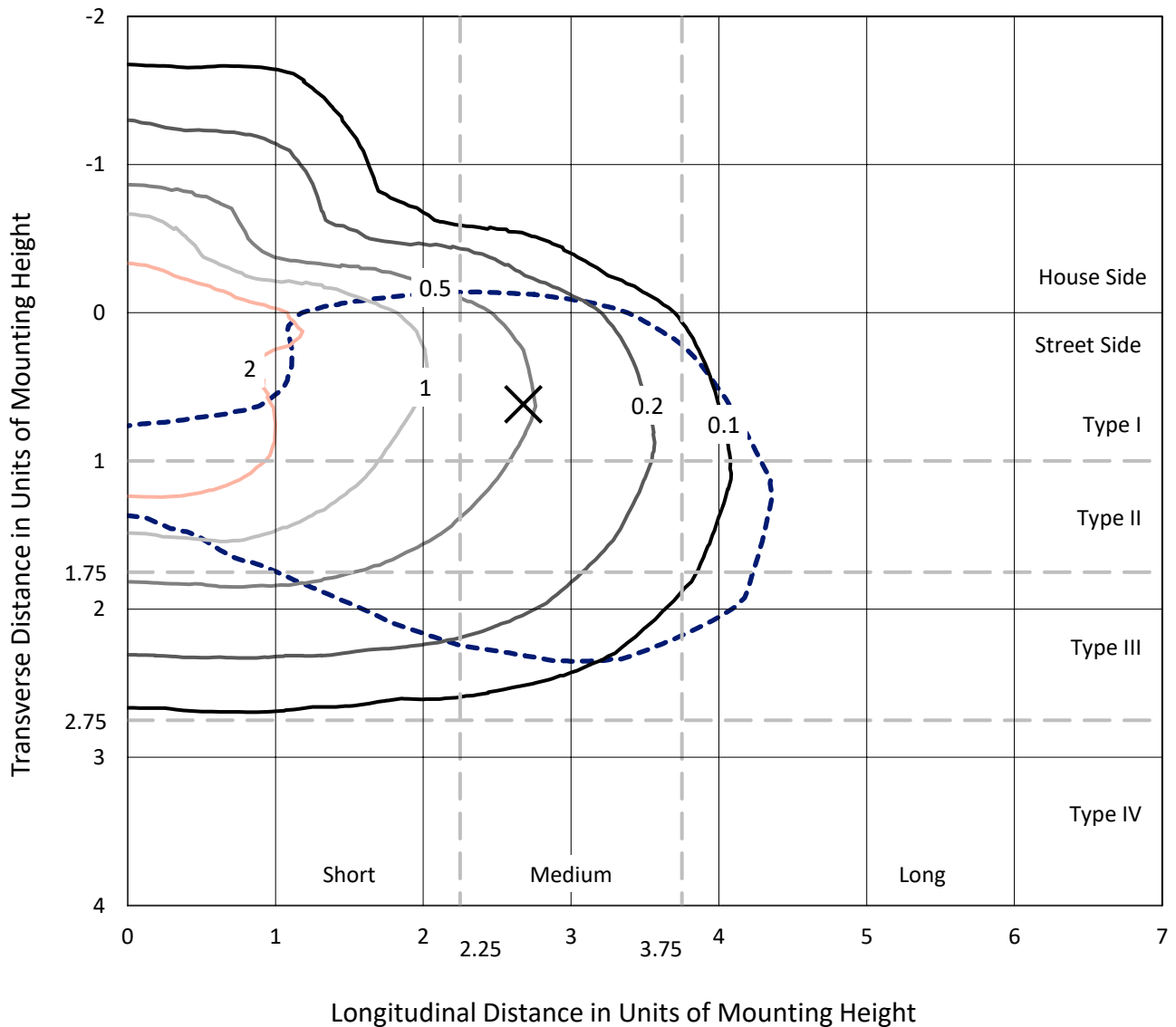
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

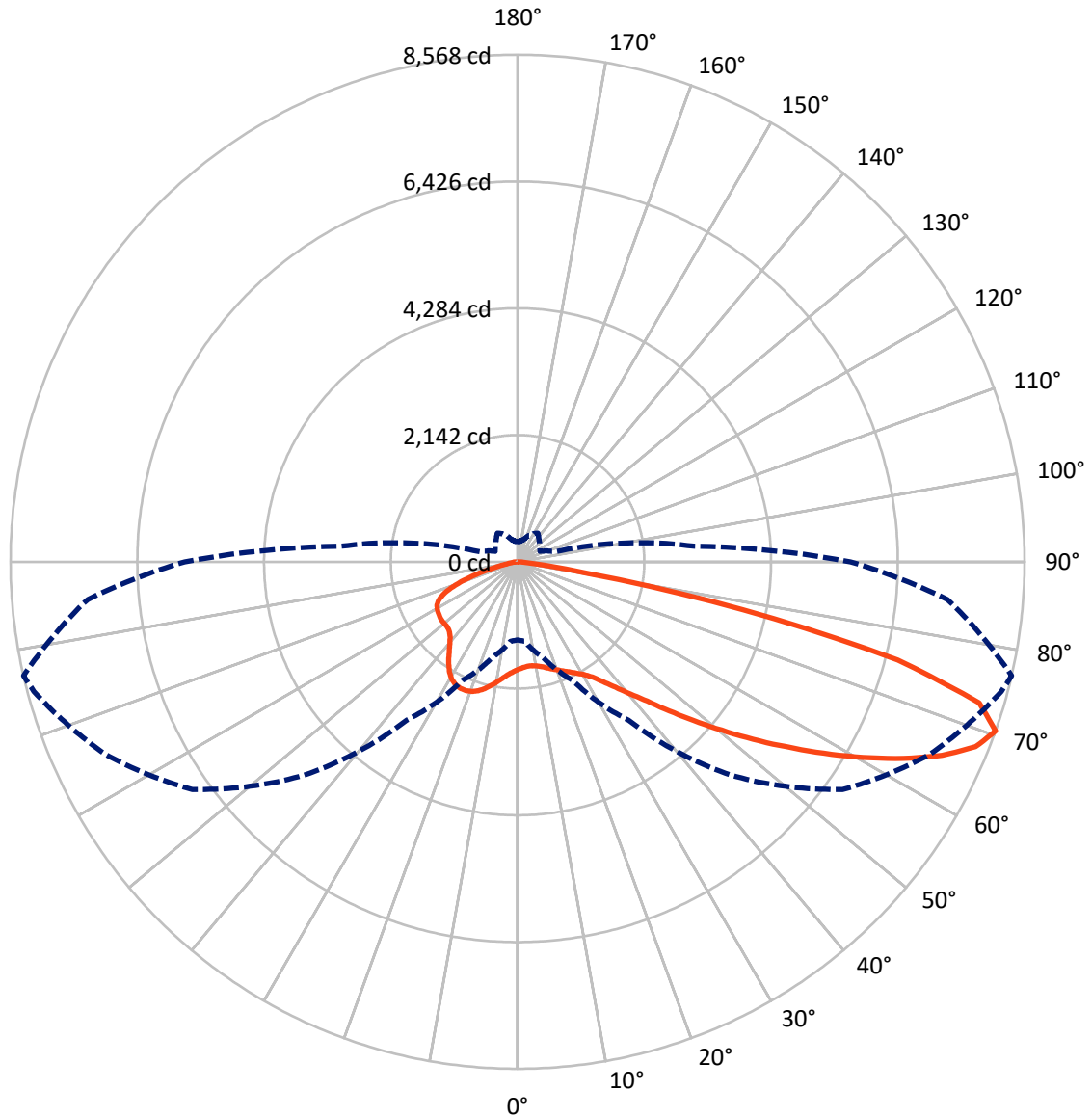
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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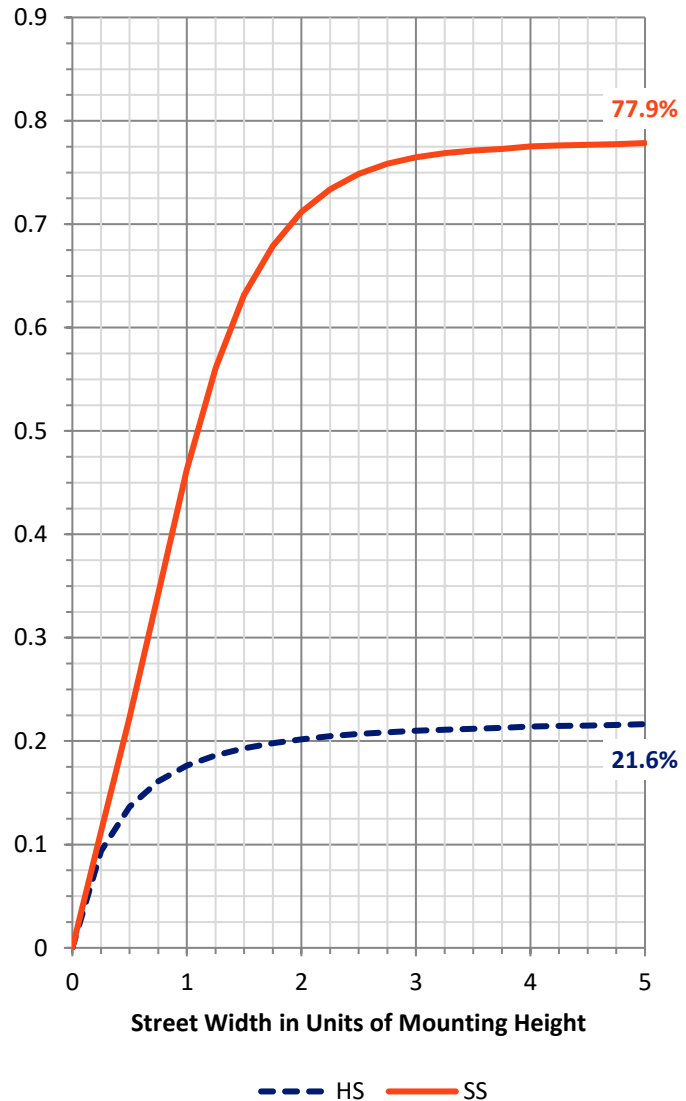
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2850.9	0.0	2850.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10167.7	0.0	10167.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	13018.5	0.0	13018.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	1.3
10°-20°	499.9	3.8
20°-30°	854.9	6.6
30°-40°	1374.8	10.6
40°-50°	2146.5	16.5
50°-60°	2867.2	22.0
60°-70°	3055.9	23.5
70°-80°	1881.2	14.5
80°-90°	164.8	1.3
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°	13018.5	100.0
0°-180°	13018.5	100.0

Coefficient of Utilization



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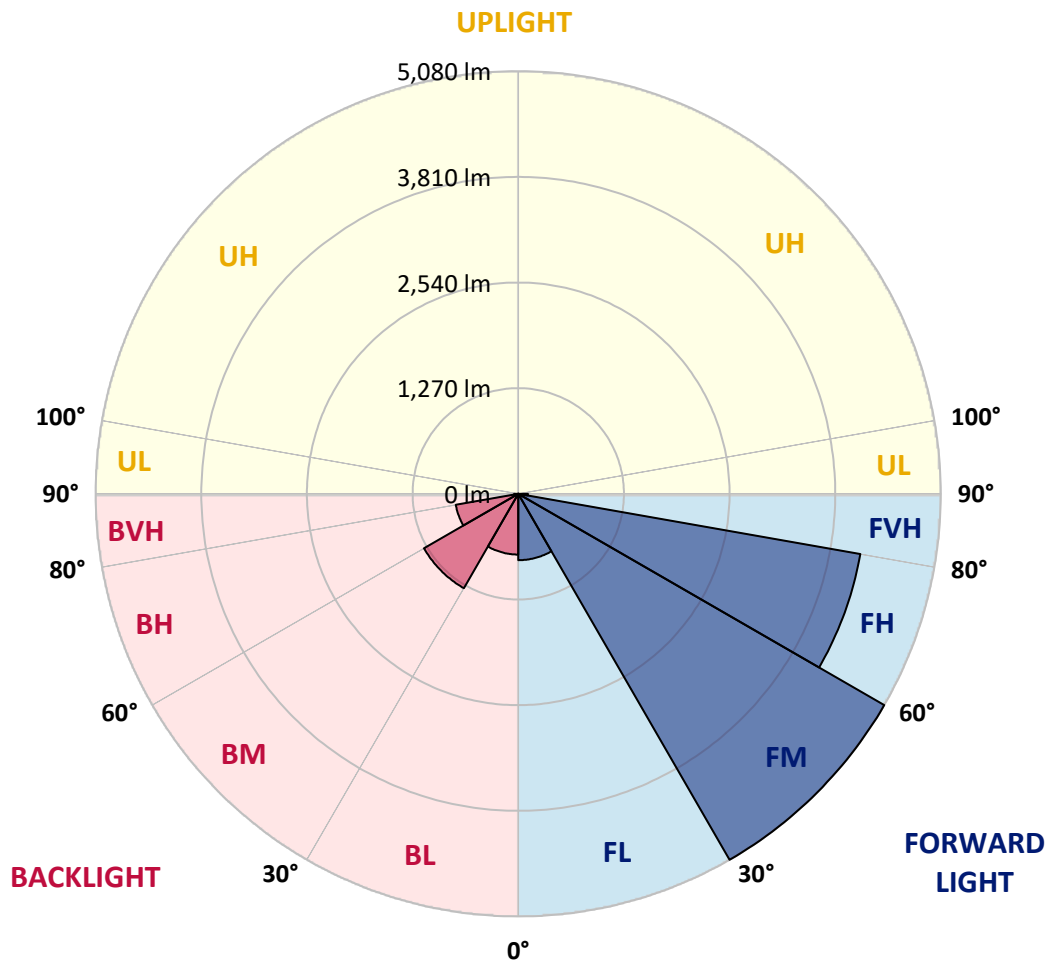
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	797.6	6.1			
FM (30°-60°)	5079.6	39.0			
FH (60°-80°)	4175.3	32.1			G2/5000
FVH (80°-90°)	115.3	0.9			G2/225
BL (0°-30°)	730.5	5.6	B2/1000		
BM (30°-60°)	1308.9	10.1	B2/2500		
BH (60°-80°)	761.9	5.9	B2/1000		G2/1000
BVH (80°-90°)	49.6	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2
2.5°	1674.2	1673.5	1682.2	1684.9	1700.9	1712.2	1733.5	1756.2	1785.6	1788.8	1806.9
5°	1577.5	1577.5	1587.5	1598.2	1618.9	1641.5	1674.2	1713.5	1764.2	1772.2	1816.9
7.5°	1495.5	1500.8	1509.5	1530.1	1554.2	1586.8	1636.8	1692.9	1759.5	1772.2	1844.2
10°	1429.5	1435.5	1446.2	1462.9	1498.9	1544.2	1609.6	1681.5	1770.9	1790.9	1884.3
12.5°	1408.9	1414.8	1420.9	1433.5	1466.9	1520.2	1598.2	1686.8	1798.2	1818.2	1938.9
15°	1456.8	1464.2	1459.5	1456.1	1473.5	1522.1	1603.5	1706.2	1832.2	1860.9	2006.2
17.5°	1567.5	1570.2	1559.5	1528.2	1525.5	1551.5	1628.8	1732.9	1874.8	1906.2	2074.2
20°	1746.2	1741.6	1719.5	1657.5	1622.2	1616.8	1672.2	1772.8	1918.9	1952.2	2147.6
22.5°	1988.9	1983.6	1939.5	1841.5	1762.9	1710.8	1734.8	1824.9	1968.2	2005.5	2218.9
25°	2291.6	2284.2	2219.5	2086.2	1964.2	1835.6	1820.2	1893.6	2028.9	2063.5	2293.5
27.5°	2645.0	2639.0	2569.0	2393.0	2216.9	2006.2	1926.2	1974.3	2092.2	2131.6	2377.6
30°	3025.0	3042.3	2918.3	2729.0	2506.3	2229.0	2068.9	2073.6	2174.2	2209.6	2479.6
32.5°	3471.7	3501.7	3352.4	3112.3	2808.3	2471.0	2249.0	2212.3	2293.5	2323.0	2608.3
35°	3914.5	3948.4	3824.4	3559.1	3209.1	2756.3	2436.9	2371.6	2452.3	2484.3	2779.0
37.5°	4297.1	4342.5	4278.5	4047.8	3637.7	3100.3	2682.3	2558.9	2647.7	2687.7	3008.4
40°	4599.2	4668.6	4663.9	4519.8	4143.2	3517.7	2993.7	2790.4	2890.3	2933.7	3286.4
42.5°	4844.6	4904.5	4956.6	4949.2	4670.5	3991.8	3359.7	3091.0	3167.0	3217.1	3599.1
45°	5013.9	5077.8	5189.9	5310.6	5177.9	4499.1	3779.1	3447.7	3517.1	3592.4	3971.8
47.5°	5165.3	5238.0	5383.3	5574.7	5608.6	5008.6	4238.5	3863.1	3926.5	4004.5	4345.8
50°	5178.6	5241.2	5466.6	5738.0	5914.7	5498.0	4731.9	4329.2	4388.5	4471.9	4746.6
52.5°	4856.6	4955.3	5348.6	5733.3	6055.4	5907.3	5222.0	4813.9	4880.5	4980.6	5161.3
55°	3769.7	3914.5	5002.5	5554.6	6005.4	6172.0	5687.9	5329.3	5414.6	5519.3	5578.7
57.5°	3247.0	3310.3	3971.2	5229.2	5777.3	6240.7	6081.3	5850.0	5987.3	6102.0	6020.0
60°	2918.3	2971.0	3361.7	4723.2	5477.3	6132.1	6385.3	6335.4	6572.7	6709.4	6471.4
62.5°	2566.3	2616.3	2971.7	3943.8	5093.2	5951.4	6577.4	6783.4	7172.8	7322.2	6896.8
65°	2216.9	2259.6	2600.3	3313.7	4605.2	5770.6	6676.7	7170.8	7728.2	7882.9	7250.1
67.5°	1827.6	1862.8	2184.9	2795.7	4011.7	5523.3	6726.0	7475.5	8211.6	8344.2	7424.8
70°	1318.8	1346.1	1678.8	2210.9	3267.0	5097.9	6706.1	7691.5	8462.3	8568.3	7292.8
72.5°	623.4	648.1	1038.7	1435.5	2307.6	4269.8	6301.4	7520.2	8207.6	8154.9	6484.8
75°	332.7	354.0	596.8	787.4	1218.8	2927.0	5156.6	6478.1	6892.1	6636.1	4792.5
77.5°	225.4	242.0	369.4	472.7	556.8	1389.5	3314.3	4485.2	4315.1	3892.4	2400.2
80°	178.7	196.0	302.7	320.0	269.4	502.0	1369.5	2076.2	1491.5	1192.8	682.8
82.5°	137.4	156.7	254.7	232.1	146.7	206.0	398.7	656.7	382.0	290.7	165.3
85°	84.0	104.7	200.0	148.0	82.7	94.0	135.3	182.7	116.6	97.4	59.3
87.5°	42.6	60.0	101.4	54.0	37.3	22.0	36.0	36.0	30.6	26.6	15.4
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°	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2
2.5°	1822.9	1836.2	1858.8	1880.3	1896.9	1912.9	1928.8	1937.6	1940.2	1950.9	1956.9
5°	1844.2	1868.9	1912.9	1954.3	1980.2	1996.2	2007.6	2014.2	2015.6	2018.9	2024.3
7.5°	1883.5	1922.9	1984.2	2025.6	2044.9	2043.5	2038.9	2022.2	2015.6	2009.5	2010.8
10°	1938.9	1990.9	2066.2	2094.9	2082.9	2050.9	2009.5	1960.9	1938.2	1916.2	1909.6
12.5°	2007.6	2073.6	2147.6	2146.2	2086.9	2004.9	1908.9	1834.2	1786.9	1752.9	1744.9
15°	2090.9	2167.0	2223.5	2178.2	2048.3	1900.9	1760.2	1662.9	1620.2	1582.8	1578.8
17.5°	2176.9	2258.3	2284.2	2168.3	1950.9	1746.9	1587.5	1510.8	1468.8	1448.8	1454.8
20°	2260.9	2341.6	2320.3	2110.9	1802.9	1572.1	1430.2	1388.2	1379.4	1384.2	1382.1
22.5°	2349.6	2421.6	2327.6	2000.2	1614.2	1393.5	1315.5	1316.8	1336.2	1350.1	1353.5
25°	2440.3	2488.9	2308.3	1840.2	1411.5	1262.2	1242.8	1264.1	1302.2	1329.5	1336.8
27.5°	2527.6	2549.0	2266.3	1642.2	1237.5	1168.1	1171.5	1215.4	1272.8	1310.8	1320.1
30°	2626.3	2602.3	2185.6	1419.5	1116.8	1087.4	1115.5	1166.8	1224.2	1258.2	1266.2
32.5°	2737.7	2648.3	2057.6	1213.5	1031.5	1022.7	1068.8	1102.1	1127.5	1137.4	1142.8
35°	2876.4	2713.0	1893.6	1068.8	954.8	975.5	1019.5	1002.8	992.8	987.5	992.8
37.5°	3056.3	2800.3	1701.5	974.8	892.8	941.5	959.4	907.4	868.1	848.8	853.4
40°	3273.0	2928.3	1516.8	902.1	853.4	912.1	880.8	818.1	768.1	740.8	742.7
42.5°	3513.7	3062.4	1361.5	847.5	831.4	888.1	822.8	748.0	667.4	658.8	667.4
45°	3766.5	3200.4	1255.5	805.4	820.7	867.5	789.5	668.7	611.4	646.8	665.4
47.5°	4019.1	3327.0	1191.5	774.1	815.4	844.1	760.0	624.7	584.0	635.4	659.4
50°	4300.5	3440.4	1162.8	751.4	809.4	834.8	716.1	613.4	555.3	589.4	614.7
52.5°	4579.8	3528.4	1141.4	728.8	800.7	827.4	694.7	600.0	520.7	522.8	536.7
55°	4858.5	3585.8	1118.2	698.7	781.5	811.4	692.7	585.4	494.8	485.3	492.1
57.5°	5156.0	3618.5	1089.5	665.4	748.0	770.8	690.7	574.1	486.7	471.4	473.3
60°	5458.6	3666.4	1052.2	624.7	703.5	722.1	686.0	570.1	482.1	456.0	458.1
62.5°	5730.0	3683.0	1007.5	586.1	646.1	674.0	676.1	566.7	469.3	424.8	424.8
65°	5908.0	3611.1	929.5	542.0	584.0	624.7	656.7	555.3	446.7	402.0	402.0
67.5°	5900.6	3405.7	807.4	485.3	524.1	570.1	628.7	536.1	419.4	374.0	376.1
70°	5625.9	3000.4	652.7	419.4	458.1	511.4	592.8	507.4	386.7	343.4	347.4
72.5°	4825.2	2348.3	474.1	342.0	381.4	450.7	546.0	472.7	353.4	316.0	314.1
75°	3447.1	1486.1	321.3	262.7	296.7	382.0	488.1	432.0	322.7	317.3	299.4
77.5°	1760.8	710.1	212.7	192.0	206.6	301.3	410.0	386.0	327.4	262.0	233.4
80°	572.8	262.0	134.0	130.7	137.4	200.7	317.3	316.7	248.0	178.0	157.3
82.5°	182.7	112.6	87.3	84.0	80.7	126.0	221.4	250.7	167.4	112.6	112.0
85°	72.7	67.3	51.4	47.4	34.0	59.3	116.0	166.7	124.6	81.4	83.3
87.5°	26.6	26.6	14.0	10.0	7.4	20.0	31.4	50.0	71.3	42.0	41.3
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)