

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: P962371

Luminaire Tested: **NAV-SB2C-722-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-722-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12565.5 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

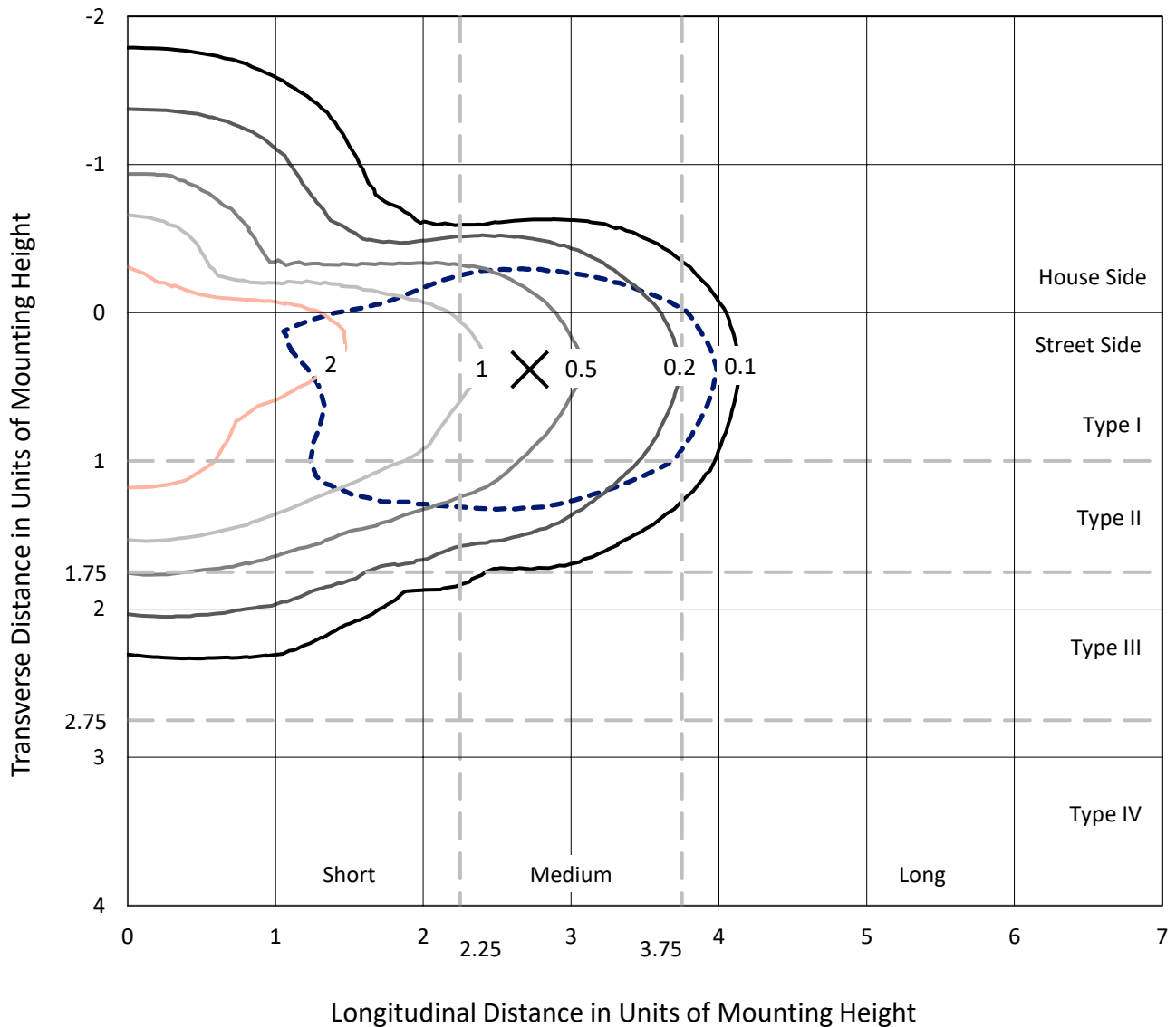
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

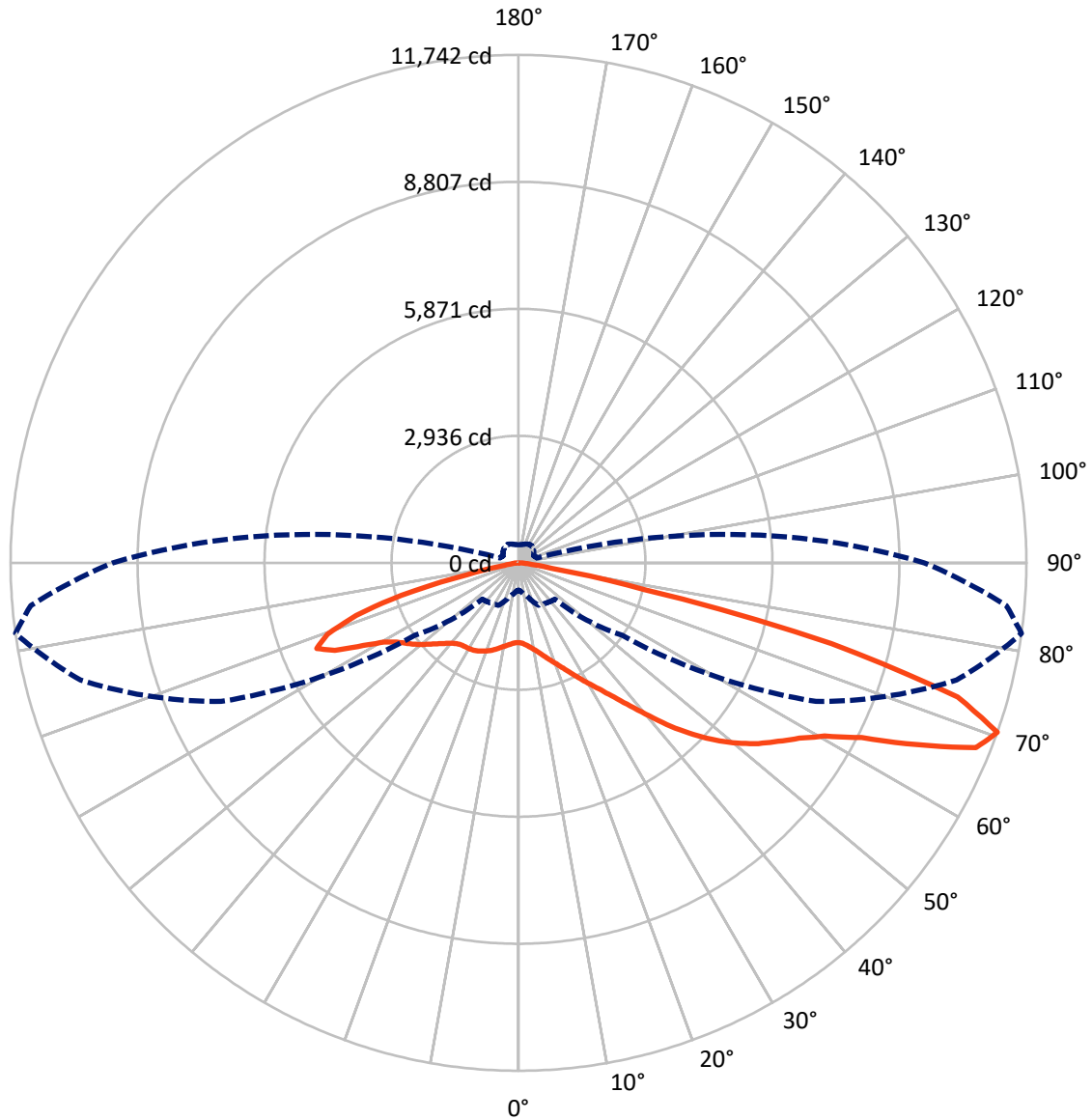
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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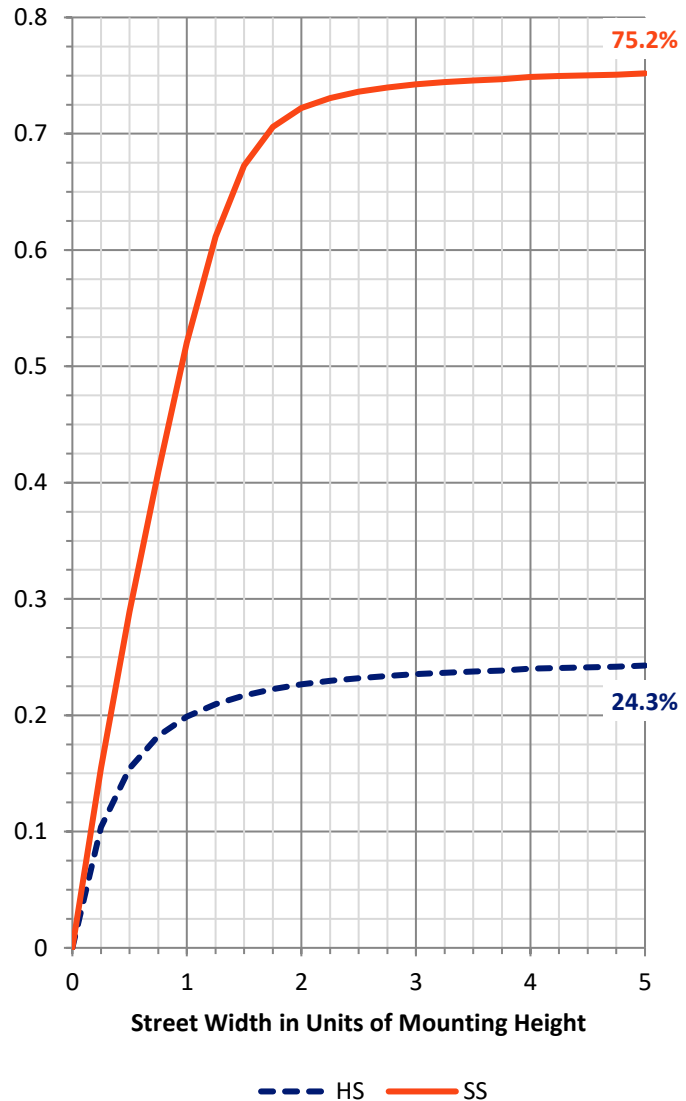
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3097.7	0.0	3097.7
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	9467.8	0.0	9467.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	12565.5	0.0	12565.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	1.4
10°-20°	499.7	4.0
20°-30°	836.0	6.7
30°-40°	1306.1	10.4
40°-50°	2080.1	16.6
50°-60°	2894.7	23.0
60°-70°	3028.0	24.1
70°-80°	1582.6	12.6
80°-90°	164.3	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°	12565.5	100.0
0°-180°	12565.5	100.0

**Coefficient of Utilization**

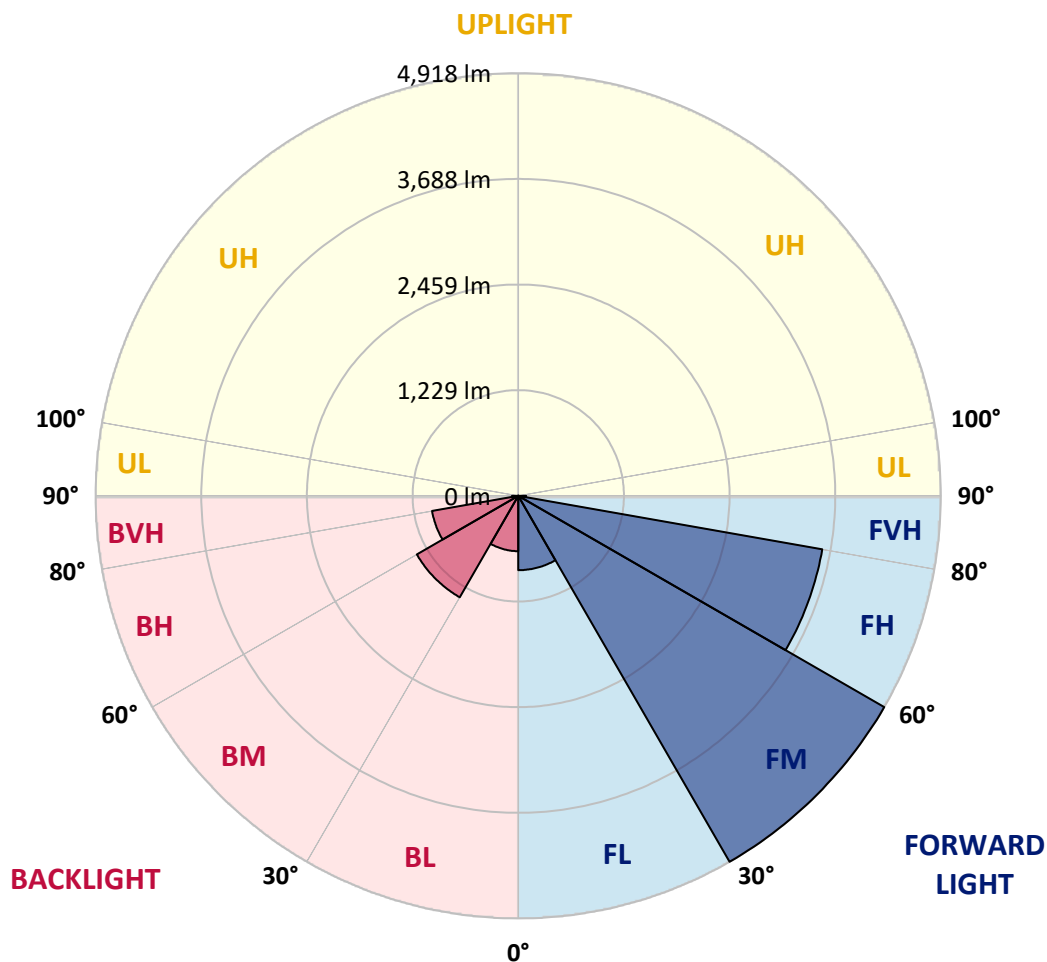


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	865.3	6.9			
FM (30°-60°)	4918.0	39.1			
FH (60°-80°)	3592.5	28.6			G2/5000
FVH (80°-90°)	92.0	0.7			G1/100
BL (0°-30°)	644.4	5.1	B2/1000		
BM (30°-60°)	1362.9	10.8	B2/2500		
BH (60°-80°)	1018.1	8.1	B3/2500		G3/2500
BVH (80°-90°)	72.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2
2.5°	1886.3	1897.0	1893.6	1890.3	1890.3	1885.6	1885.0	1878.2	1872.9	1864.3	1862.2
5°	1910.3	1921.6	1920.2	1922.9	1931.6	1933.6	1935.6	1931.6	1921.0	1910.3	1905.6
7.5°	1889.0	1901.6	1905.6	1921.6	1948.3	1972.3	1990.2	1997.6	1987.6	1972.3	1964.9
10°	1816.9	1831.0	1844.9	1882.9	1930.3	1987.0	2034.9	2063.6	2061.6	2046.9	2034.3
12.5°	1670.9	1685.6	1715.5	1789.5	1876.3	1976.3	2065.6	2125.6	2146.2	2135.6	2113.7
15°	1554.2	1566.9	1589.6	1665.5	1778.3	1930.3	2077.0	2193.6	2246.3	2240.3	2213.6
17.5°	1550.9	1556.3	1570.2	1606.2	1692.9	1858.2	2065.0	2260.3	2361.0	2360.4	2327.0
20°	1609.6	1611.6	1619.6	1626.9	1676.2	1803.6	2034.3	2315.7	2489.7	2489.7	2453.6
22.5°	1690.9	1689.6	1697.6	1690.9	1714.9	1798.9	2014.9	2364.4	2633.0	2643.7	2598.4
25°	1812.9	1806.3	1804.2	1788.9	1793.5	1842.2	2036.3	2419.7	2803.1	2825.1	2768.4
27.5°	1975.6	1964.9	1957.6	1922.3	1910.3	1931.6	2101.7	2486.3	2992.4	3030.4	2958.5
30°	2187.7	2168.3	2157.6	2096.3	2053.0	2056.3	2200.3	2575.0	3190.4	3251.8	3160.5
32.5°	2477.0	2447.0	2418.4	2317.6	2238.3	2212.3	2327.7	2697.7	3405.2	3503.1	3385.8
35°	2801.0	2777.0	2746.4	2591.0	2469.0	2409.0	2499.7	2869.1	3656.5	3811.9	3659.1
37.5°	3113.1	3092.4	3107.1	2897.8	2740.3	2653.0	2725.1	3099.1	3966.5	4195.9	4001.9
40°	3435.8	3419.8	3421.8	3221.8	3038.4	2940.4	2998.4	3387.8	4321.9	4652.7	4414.0
42.5°	3786.6	3774.6	3734.5	3557.2	3351.1	3259.8	3313.1	3721.2	4703.3	5172.8	4866.0
45°	4179.2	4172.0	4134.5	3931.2	3695.2	3592.5	3664.5	4089.2	5086.7	5662.1	5320.1
47.5°	4518.6	4524.7	4519.9	4348.6	4103.9	3953.2	4039.2	4473.3	5443.5	6122.2	5755.5
50°	4682.0	4713.4	4759.3	4706.0	4554.0	4400.6	4417.2	4844.0	5783.5	6553.5	6172.9
52.5°	4596.6	4656.0	4781.3	4866.7	4925.3	4893.3	4848.7	5212.0	6103.5	6942.9	6567.6
55°	4278.6	4362.0	4570.0	4776.0	5075.4	5308.1	5366.7	5620.1	6415.6	7285.7	6941.0
57.5°	3699.2	3834.5	4021.2	4437.9	4942.0	5508.8	5970.8	6186.2	6746.2	7651.7	7331.7
60°	2705.7	2887.1	3119.1	3739.2	4475.3	5401.4	6484.9	7055.7	7216.3	8125.8	7840.4
62.5°	1731.5	1843.6	2057.0	2641.0	3487.2	4851.3	6642.2	8142.5	8013.1	8903.3	8603.2
65°	1185.5	1257.5	1452.8	1780.9	2254.3	3611.2	6220.8	8957.3	9278.6	10135.4	9907.3
67.5°	861.4	916.1	1082.8	1370.2	1468.8	2136.9	4827.3	8919.9	10508.8	11404.9	11050.2
70°	628.1	666.8	806.8	1082.8	1130.2	1188.8	2924.4	7582.3	10482.2	11742.3	11317.5
72.5°	465.4	492.1	586.1	840.1	914.8	802.8	1447.5	5510.8	9007.3	10620.8	10280.1
75°	336.7	356.7	426.1	642.8	732.1	611.4	722.1	3220.4	6282.8	7471.0	7531.1
77.5°	257.4	272.8	318.1	470.8	586.1	458.7	448.0	1481.5	2979.1	2993.7	3161.8
80°	206.7	216.7	241.4	331.4	449.4	343.4	292.0	598.1	941.5	796.7	836.1
82.5°	152.0	168.7	204.1	232.7	321.3	236.7	178.0	302.1	358.0	308.0	310.7
85°	86.7	98.0	123.3	166.7	205.4	144.7	102.0	134.0	166.7	136.7	122.0
87.5°	30.6	40.0	43.4	65.3	89.4	60.0	39.4	38.6	54.6	40.7	34.0
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°	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2	1842.2
2.5°	1855.6	1852.3	1839.0	1820.9	1802.3	1784.2	1778.3	1765.6	1757.0	1752.2	1757.6
5°	1893.0	1882.3	1850.9	1810.9	1768.9	1723.5	1691.6	1662.2	1640.9	1620.9	1628.9
7.5°	1946.3	1927.6	1873.6	1803.6	1728.9	1653.5	1597.6	1554.9	1526.2	1507.6	1511.6
10°	2008.3	1979.6	1897.0	1792.2	1676.9	1568.9	1502.9	1466.2	1448.2	1438.2	1440.8
12.5°	2079.6	2038.9	1921.0	1766.3	1597.6	1474.2	1428.8	1418.2	1418.9	1419.5	1420.9
15°	2167.7	2111.0	1940.2	1709.6	1494.2	1401.5	1393.5	1410.9	1428.8	1437.6	1436.8
17.5°	2267.0	2186.9	1943.6	1616.2	1392.9	1354.8	1380.2	1417.6	1444.8	1456.8	1459.5
20°	2373.7	2264.3	1919.6	1484.2	1309.5	1316.8	1362.2	1410.2	1440.2	1455.5	1459.5
22.5°	2495.7	2346.9	1862.2	1345.5	1241.5	1275.5	1328.8	1375.6	1406.8	1422.2	1426.2
25°	2635.1	2439.7	1772.2	1228.9	1182.8	1228.9	1282.2	1320.8	1346.2	1360.2	1364.2
27.5°	2789.7	2536.4	1652.2	1136.1	1131.5	1180.8	1224.9	1254.8	1268.1	1278.9	1282.9
30°	2945.0	2624.4	1506.9	1066.1	1086.8	1133.4	1164.8	1178.1	1182.1	1184.2	1188.8
32.5°	3113.1	2700.4	1354.2	1008.2	1044.2	1087.5	1106.2	1112.1	1093.5	1080.9	1084.9
35°	3316.5	2781.7	1204.8	962.2	1002.1	1039.5	1045.5	1040.2	1018.1	992.1	993.4
37.5°	3567.8	2883.0	1085.5	929.5	962.8	987.5	980.1	978.8	980.8	950.2	952.1
40°	3875.8	3015.0	998.1	904.2	930.8	936.1	915.4	926.8	936.7	890.1	891.4
42.5°	4217.9	3174.4	942.8	886.8	904.2	891.4	859.5	872.1	870.7	809.4	808.8
45°	4566.7	3347.8	923.4	874.1	879.4	854.1	818.8	822.2	794.1	738.8	740.8
47.5°	4913.3	3533.8	935.4	863.5	848.8	820.1	792.7	778.1	736.8	695.5	695.5
50°	5253.4	3729.2	979.5	842.1	806.8	790.1	770.1	744.2	700.1	664.7	662.0
52.5°	5568.7	3925.9	1028.8	806.8	754.1	764.1	751.4	721.4	678.1	642.1	642.8
55°	5867.5	4122.5	1048.2	758.1	704.8	741.5	734.1	678.8	626.8	597.4	594.7
57.5°	6192.8	4359.2	1026.8	696.1	664.7	715.4	687.5	626.1	596.0	574.1	572.1
60°	6643.6	4730.7	980.8	619.4	626.8	676.8	628.7	603.4	570.7	546.1	544.8
62.5°	7392.4	5423.4	906.8	543.5	582.1	619.4	600.8	575.4	542.1	518.0	518.0
65°	8499.2	6386.3	767.4	484.1	532.1	563.4	570.7	545.4	510.8	485.4	486.8
67.5°	9432.7	6990.3	580.8	434.7	480.7	518.0	538.7	514.0	477.4	452.7	453.4
70°	9381.3	6551.6	443.4	386.0	435.4	473.4	500.1	480.7	441.4	418.1	420.0
72.5°	8332.5	5480.8	358.7	336.7	389.4	426.7	458.7	444.0	404.1	381.4	381.4
75°	6121.5	3890.5	286.7	286.7	332.0	378.0	413.4	404.1	367.4	351.4	346.8
77.5°	2580.3	1632.2	224.7	238.0	276.0	324.7	368.7	372.1	340.1	360.1	326.7
80°	686.1	450.1	171.4	187.4	216.7	268.0	320.7	319.4	284.7	266.0	247.3
82.5°	261.4	177.3	122.0	132.0	156.7	205.4	254.0	262.0	227.3	196.7	196.7
85°	100.7	76.1	75.3	79.3	91.3	136.0	192.0	198.6	171.4	145.3	150.1
87.5°	26.0	22.7	28.0	26.6	42.0	72.7	110.0	114.0	104.7	60.7	86.7
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)