

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: P963958

Luminaire Tested: **NAV-SB3B-722-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963958  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14139.9 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

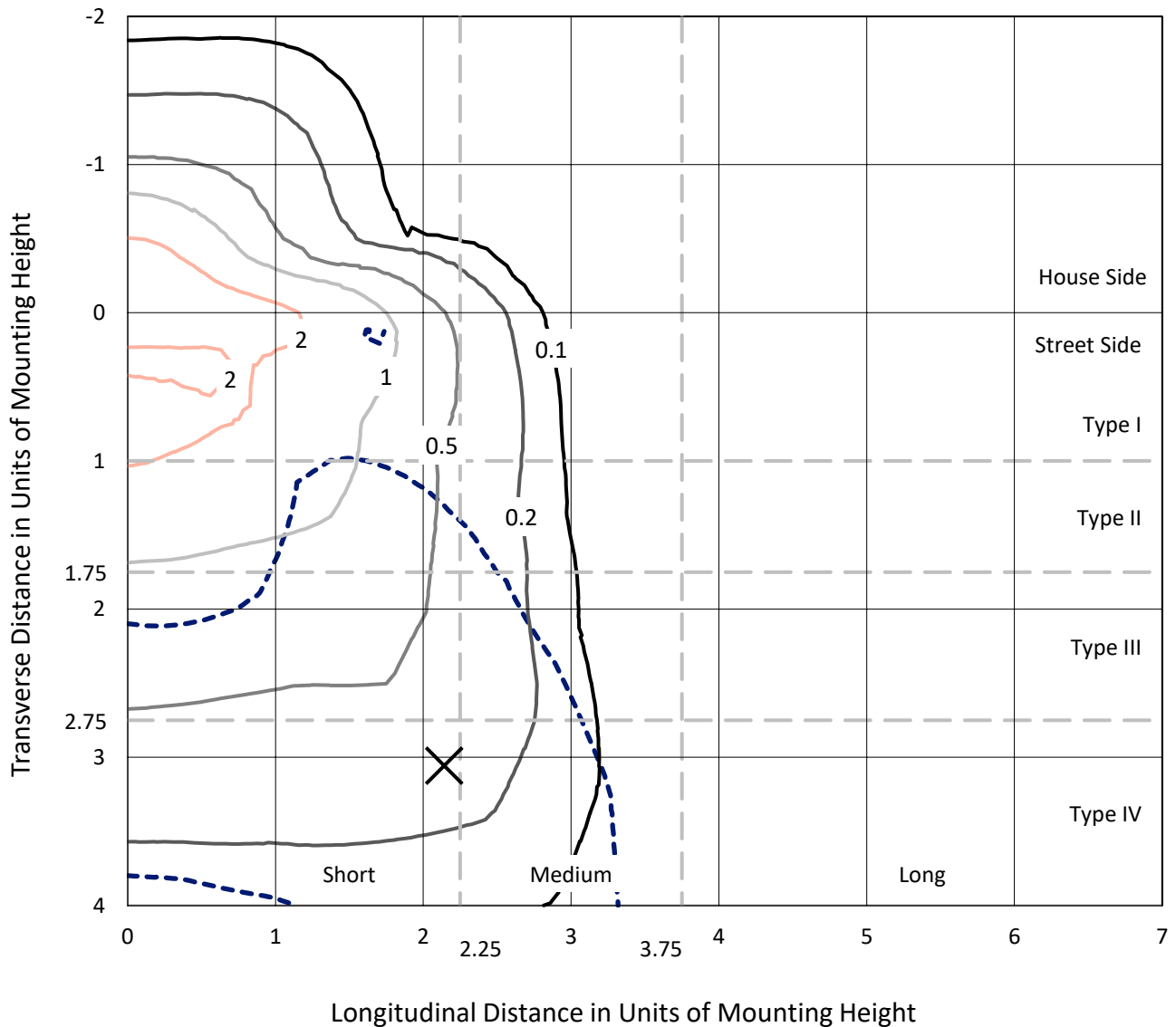
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

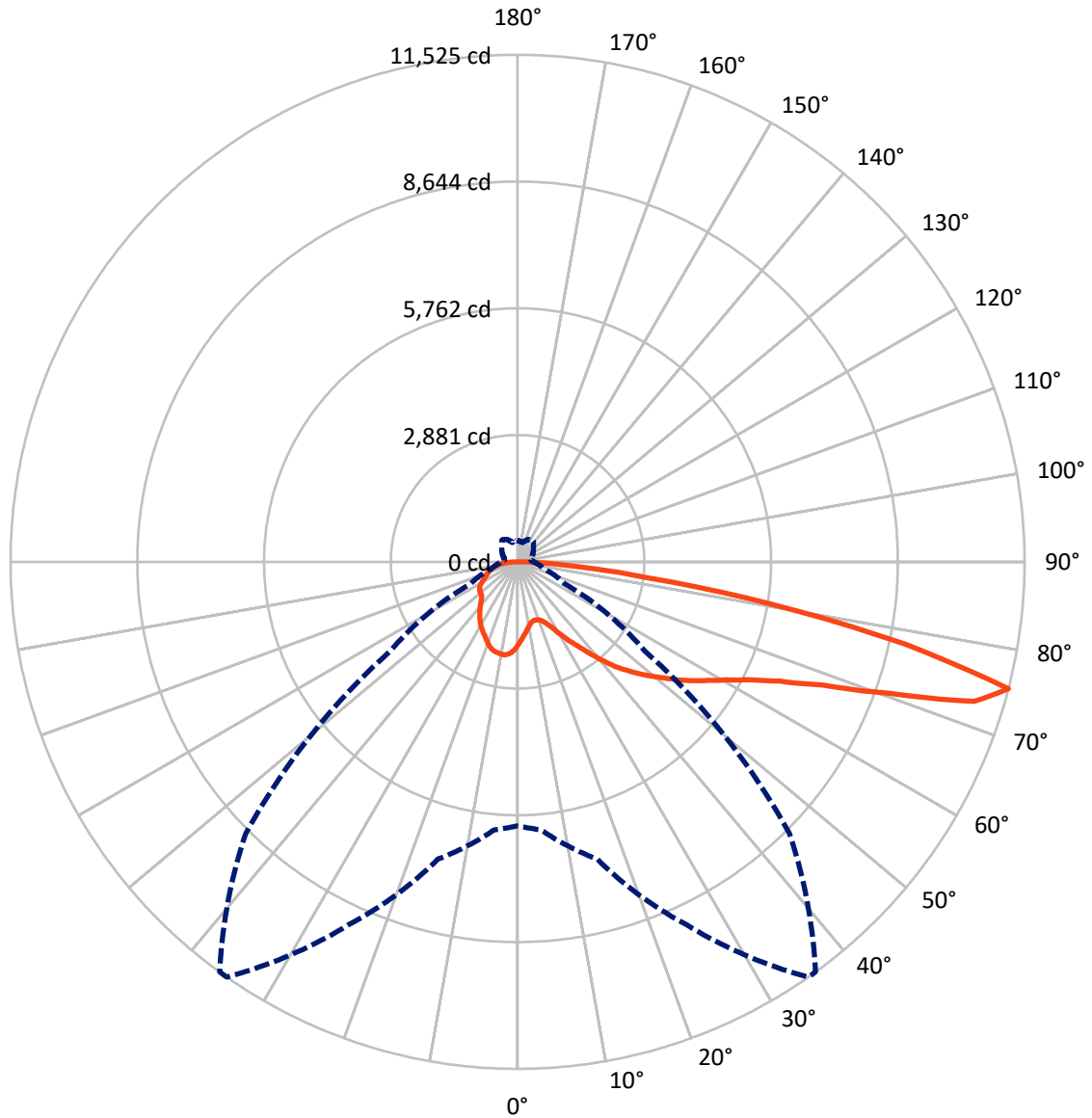
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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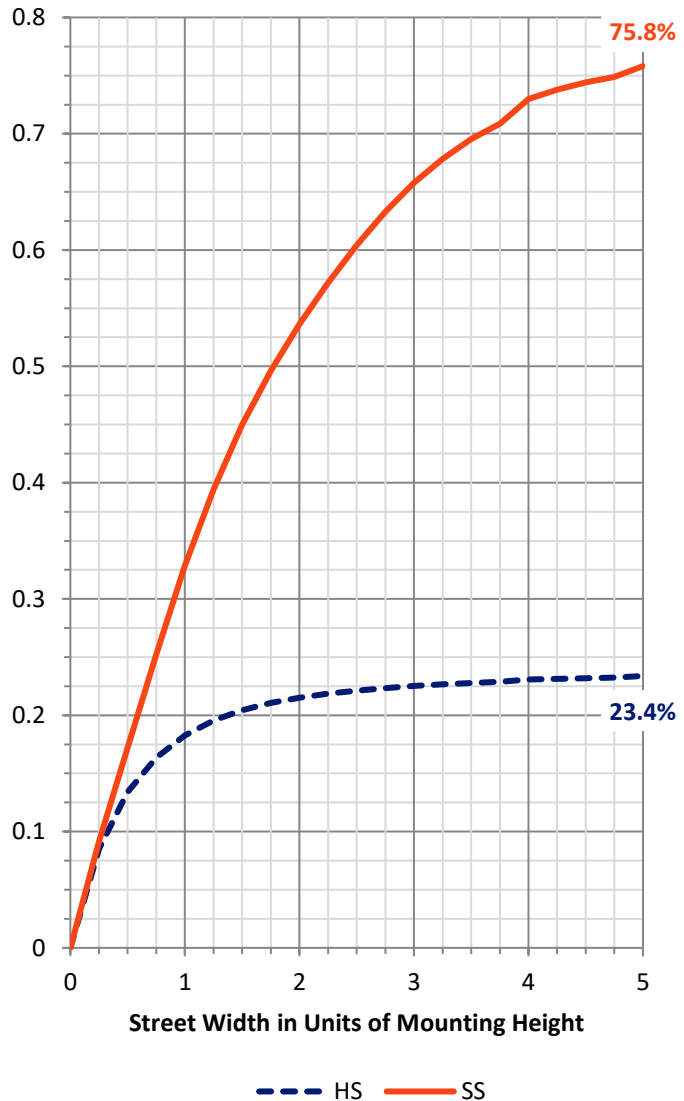
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3364.9	0.0	3364.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	10774.9	0.0	10774.9
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	14139.9	0.0	14139.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.4	1.3
10°-20°	514.6	3.6
20°-30°	864.1	6.1
30°-40°	1343.0	9.5
40°-50°	1993.3	14.1
50°-60°	2751.9	19.5
60°-70°	3338.7	23.6
70°-80°	2759.1	19.5
80°-90°	396.8	2.8
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°	14139.9	100.0
0°-180°	14139.9	100.0

**Coefficient of Utilization**



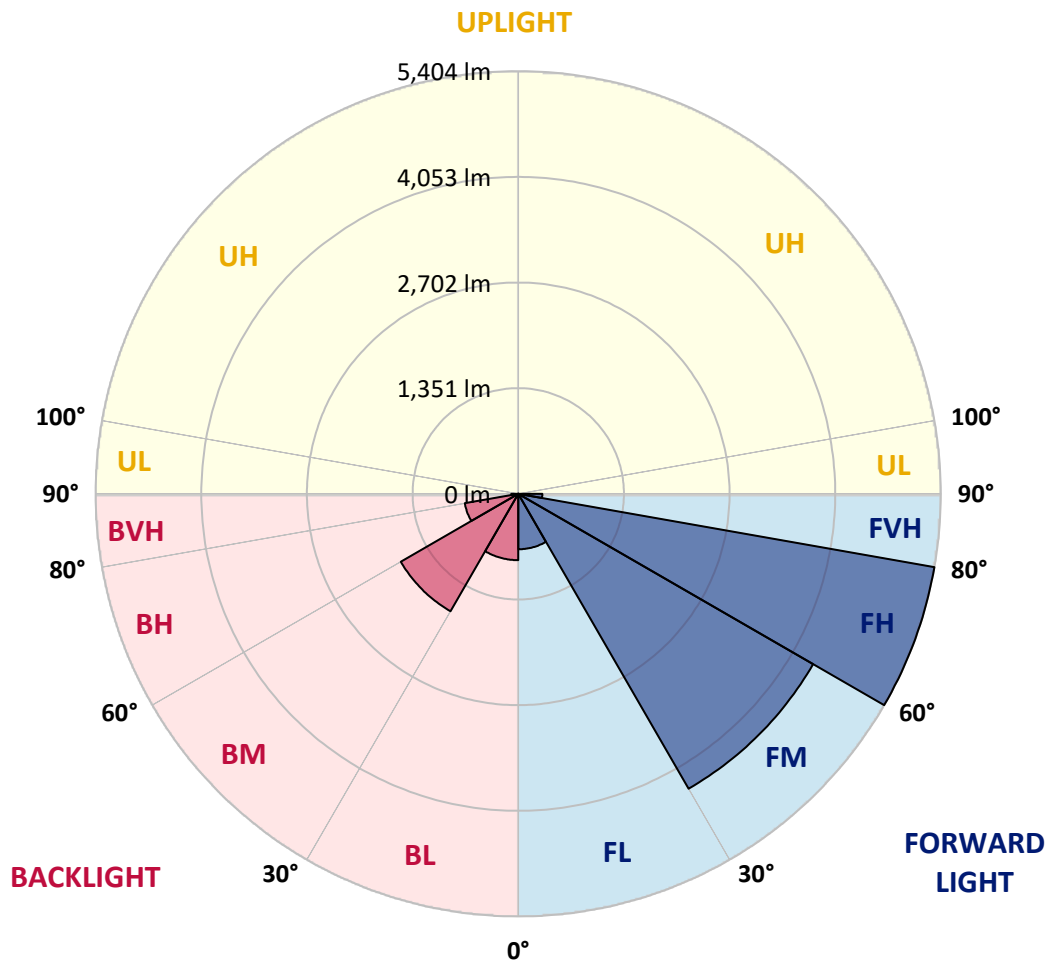
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	709.1	5.0			
FM (30°-60°)	4354.3	30.8			
FH (60°-80°)	5404.1	38.2			G3/7500
FVH (80°-90°)	307.5	2.2			G3/500
BL (0°-30°)	848.0	6.0	B2/1000		
BM (30°-60°)	1733.8	12.3	B2/2500		
BH (60°-80°)	693.7	4.9	B2/1000		G2/1000
BVH (80°-90°)	89.4	0.6			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3
2.5°	1737.5	1748.1	1752.7	1750.5	1762.0	1760.4	1776.4	1796.3	1823.9	1850.6	1889.6
5°	1603.7	1615.2	1625.1	1634.3	1656.4	1663.4	1688.6	1726.8	1777.2	1828.4	1892.7
7.5°	1479.1	1489.0	1504.3	1521.1	1558.6	1565.5	1607.5	1667.2	1737.5	1812.4	1901.1
10°	1377.4	1387.3	1403.4	1422.5	1469.1	1477.5	1531.0	1610.6	1702.3	1797.1	1910.2
12.5°	1333.8	1336.9	1346.1	1365.2	1405.7	1411.1	1470.0	1560.9	1667.9	1785.7	1924.0
15°	1331.6	1337.7	1338.4	1348.4	1382.0	1384.4	1438.6	1528.8	1646.5	1783.3	1944.6
17.5°	1354.5	1359.0	1352.2	1358.3	1386.6	1390.4	1433.3	1513.5	1639.6	1793.2	1979.8
20°	1415.6	1419.5	1398.8	1390.4	1411.1	1414.1	1456.2	1523.5	1646.5	1813.9	2028.0
22.5°	1545.6	1547.9	1497.4	1463.1	1464.6	1466.2	1502.8	1563.9	1673.2	1851.4	2089.1
25°	1748.1	1746.6	1666.3	1599.9	1561.7	1553.3	1577.7	1629.6	1718.3	1901.1	2167.9
27.5°	1985.1	1973.6	1893.4	1794.1	1710.7	1698.5	1693.1	1715.3	1782.6	1966.8	2264.1
30°	2252.6	2242.0	2155.6	2025.6	1910.2	1890.3	1839.9	1828.4	1878.1	2056.3	2397.9
32.5°	2546.2	2539.3	2436.1	2278.7	2124.2	2101.4	2016.5	1985.9	2024.9	2191.6	2584.4
35°	2792.3	2786.3	2700.6	2538.5	2349.7	2321.4	2235.1	2200.7	2220.6	2365.1	2828.3
37.5°	3014.7	3011.8	2938.4	2810.7	2615.8	2581.4	2484.3	2472.8	2469.0	2593.6	3124.1
40°	3221.2	3213.5	3137.1	3069.8	2925.4	2894.0	2808.4	2798.5	2769.4	2874.9	3458.9
42.5°	3449.7	3429.9	3319.1	3287.7	3248.6	3222.7	3171.5	3173.0	3108.8	3192.2	3813.6
45°	3636.2	3624.8	3510.8	3492.5	3534.6	3523.8	3568.2	3579.7	3455.1	3524.7	4182.0
47.5°	3836.5	3825.8	3729.5	3716.4	3830.4	3833.4	3990.1	3994.0	3792.9	3870.1	4551.2
50°	4083.4	4068.1	3972.6	3988.6	4116.3	4127.8	4414.4	4388.4	4104.0	4221.0	4917.3
52.5°	4246.2	4255.4	4234.8	4260.7	4435.0	4445.7	4831.7	4765.2	4412.1	4567.3	5276.6
55°	4366.2	4384.5	4448.8	4508.4	4771.4	4782.0	5225.4	5123.8	4667.4	4888.3	5614.4
57.5°	4520.7	4494.6	4614.7	4730.9	5090.9	5119.2	5608.4	5469.3	4893.7	5165.0	5846.1
60°	4742.3	4723.9	4817.2	4989.2	5448.6	5493.7	6013.5	5780.4	5059.5	5384.4	5891.2
62.5°	5191.7	5145.9	5160.5	5312.6	5899.6	5959.2	6470.6	6051.7	5142.1	5470.0	5649.6
65°	5863.7	5784.9	5711.6	5817.1	6534.8	6593.7	6986.6	6265.0	5111.5	5304.2	5008.4
67.5°	6709.9	6631.9	6541.7	6641.1	7470.4	7517.0	7623.3	6385.0	4870.7	4665.1	3874.7
70°	7407.8	7378.7	7486.5	7895.5	8964.9	8966.4	8439.6	6285.6	4211.0	3307.6	2242.0
72.5°	7315.2	7297.7	7865.6	9130.0	10848.3	10807.8	9212.5	5533.5	2836.7	1492.1	840.1
75°	6001.3	6115.2	6995.0	9107.7	11524.8	11519.5	8739.4	3517.7	1173.3	618.4	434.2
77.5°	3218.1	3398.5	4541.3	6724.4	8996.9	9132.2	6144.2	1230.7	503.8	396.0	300.4
80°	1049.5	1206.9	1810.0	3423.7	5846.1	5820.9	2633.3	483.1	344.7	280.5	207.9
82.5°	445.7	464.0	808.7	1616.7	3000.3	2953.6	838.6	277.5	242.3	191.9	128.4
85°	174.2	195.0	357.0	747.5	1299.5	1271.2	302.7	137.6	155.2	125.4	76.5
87.5°	57.3	69.6	127.6	256.0	404.4	389.8	74.1	47.4	67.2	57.3	27.5
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°	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3	1884.3
2.5°	1900.2	1912.5	1927.0	1948.4	1966.8	1982.0	1998.1	2008.1	2011.9	2023.4	2022.6
5°	1914.1	1940.8	1976.7	2011.9	2046.3	2066.9	2085.3	2094.5	2102.9	2108.9	2110.5
7.5°	1936.9	1971.4	2028.0	2073.8	2102.9	2119.7	2131.9	2128.8	2131.9	2133.4	2135.7
10°	1956.8	2005.0	2072.2	2115.8	2138.0	2138.8	2135.7	2125.0	2119.7	2120.4	2122.0
12.5°	1980.5	2034.0	2106.7	2143.4	2149.5	2132.6	2119.7	2101.4	2094.5	2091.4	2089.9
15°	2012.7	2073.8	2144.1	2157.9	2142.6	2121.2	2099.0	2069.2	2053.9	2041.7	2045.5
17.5°	2051.6	2118.9	2173.2	2163.3	2130.4	2095.2	2059.3	2014.2	1982.9	1969.8	1970.6
20°	2105.9	2166.3	2195.3	2151.8	2102.1	2048.6	1987.5	1932.4	1903.3	1890.3	1888.9
22.5°	2171.7	2229.8	2216.8	2131.9	2061.6	1976.0	1899.5	1859.0	1844.5	1835.3	1836.8
25°	2250.4	2300.1	2232.0	2102.9	1995.1	1879.6	1820.8	1807.8	1800.9	1794.1	1794.1
27.5°	2352.8	2379.5	2243.5	2060.0	1891.1	1777.2	1755.8	1758.1	1755.8	1744.3	1746.6
30°	2488.1	2482.8	2254.2	1990.4	1771.9	1684.7	1686.2	1696.2	1697.7	1690.1	1693.9
32.5°	2666.2	2611.9	2259.5	1900.2	1657.9	1603.7	1605.3	1615.9	1623.6	1610.6	1616.7
35°	2881.8	2762.5	2251.1	1787.2	1570.1	1526.5	1515.1	1518.1	1520.4	1508.2	1516.6
37.5°	3133.2	2931.5	2213.7	1661.8	1497.4	1450.8	1426.4	1405.7	1393.5	1382.0	1389.7
40°	3409.3	3115.7	2144.9	1539.4	1416.4	1370.5	1333.8	1294.9	1253.6	1238.3	1245.2
42.5°	3698.1	3305.2	2061.6	1422.5	1323.2	1285.8	1246.7	1190.1	1128.2	1097.0	1100.7
45°	3997.8	3499.4	1979.8	1307.1	1227.6	1211.6	1166.4	1098.4	1031.1	991.4	988.4
47.5°	4291.3	3682.8	1859.8	1190.9	1138.2	1155.8	1120.6	1057.9	983.0	920.3	913.5
50°	4571.8	3854.8	1663.4	1073.2	1065.6	1139.0	1105.4	1015.2	929.5	849.2	842.3
52.5°	4850.1	3994.0	1411.8	966.2	1026.5	1134.4	1085.5	986.0	881.4	797.2	788.1
55°	5086.3	4065.9	1169.5	874.4	970.1	1095.4	1061.7	951.7	813.3	723.9	716.3
57.5°	5220.8	4007.7	967.7	784.2	892.1	1031.1	1021.2	878.3	732.3	663.5	654.4
60°	5162.7	3772.3	802.6	705.5	817.9	961.7	950.9	805.6	670.3	605.4	596.2
62.5°	4842.4	3323.6	671.9	636.7	750.6	890.5	880.6	749.9	623.0	560.3	550.3
65°	4197.3	2703.6	570.2	579.4	682.6	804.9	819.4	703.3	585.5	524.4	514.4
67.5°	3201.3	1958.4	490.8	529.7	616.1	720.8	762.9	669.6	554.2	496.1	486.9
70°	1824.6	1112.2	423.4	481.5	557.3	642.9	719.3	642.9	520.6	472.4	466.3
72.5°	691.8	510.7	366.1	433.4	500.7	577.1	671.2	600.9	481.5	445.7	439.5
75°	369.2	311.1	308.0	376.9	435.7	512.9	610.8	559.5	452.5	470.9	486.2
77.5°	251.5	220.2	257.6	322.6	364.6	441.8	546.5	496.8	392.2	390.6	360.0
80°	174.2	155.9	209.4	259.9	282.1	371.5	476.9	426.5	319.5	298.1	285.2
82.5°	104.8	101.7	156.7	194.1	199.5	286.7	395.2	357.7	261.4	227.8	229.3
85°	57.3	60.4	100.1	113.9	116.2	200.3	309.5	276.8	201.0	168.9	170.5
87.5°	16.1	20.6	36.7	45.1	55.8	103.9	184.2	164.3	100.9	70.3	70.3
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)