

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: P965541

Luminaire Tested: **NAV-SB4A-722-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965541  
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-SB4A-722-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15192.5 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

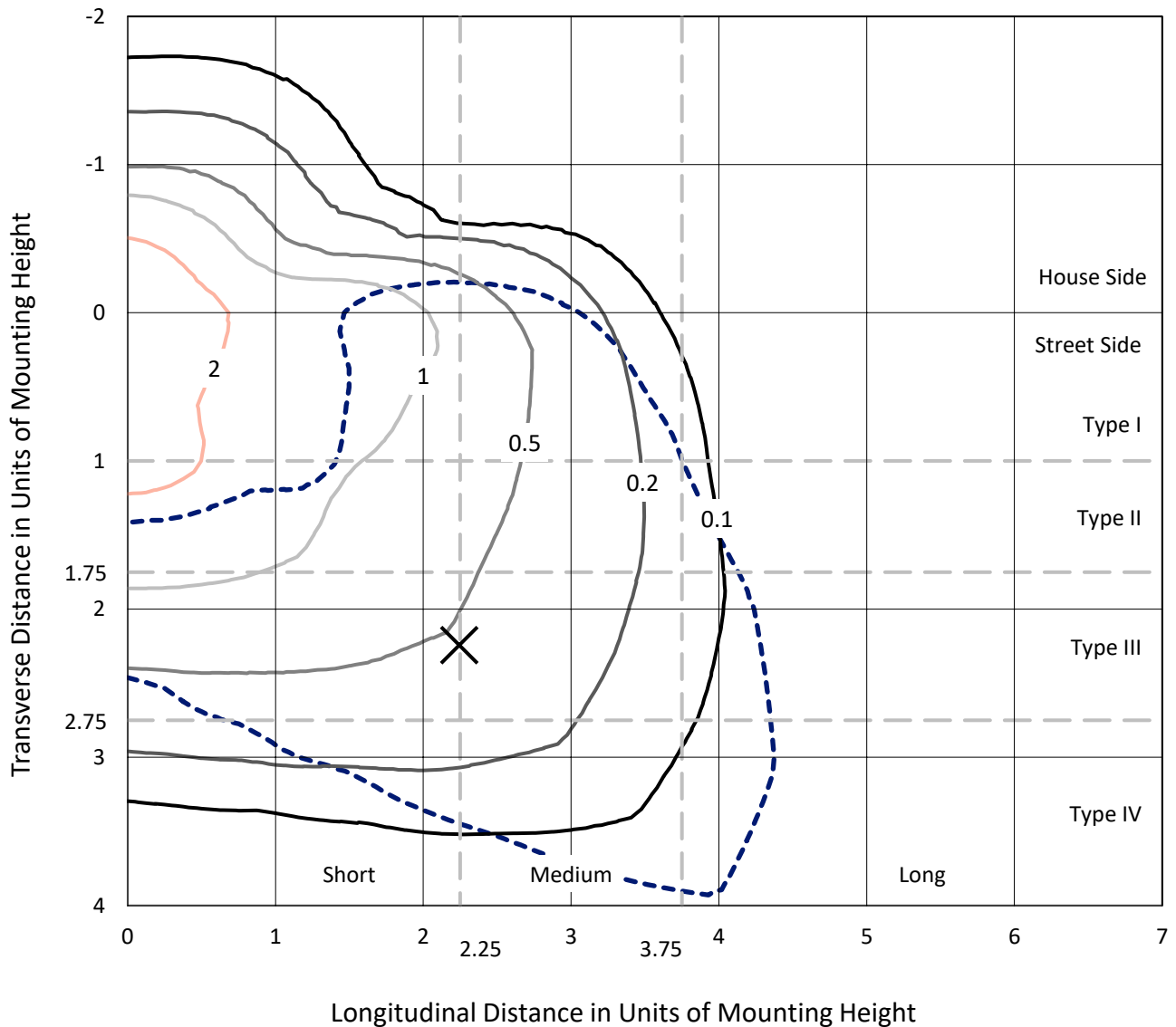
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

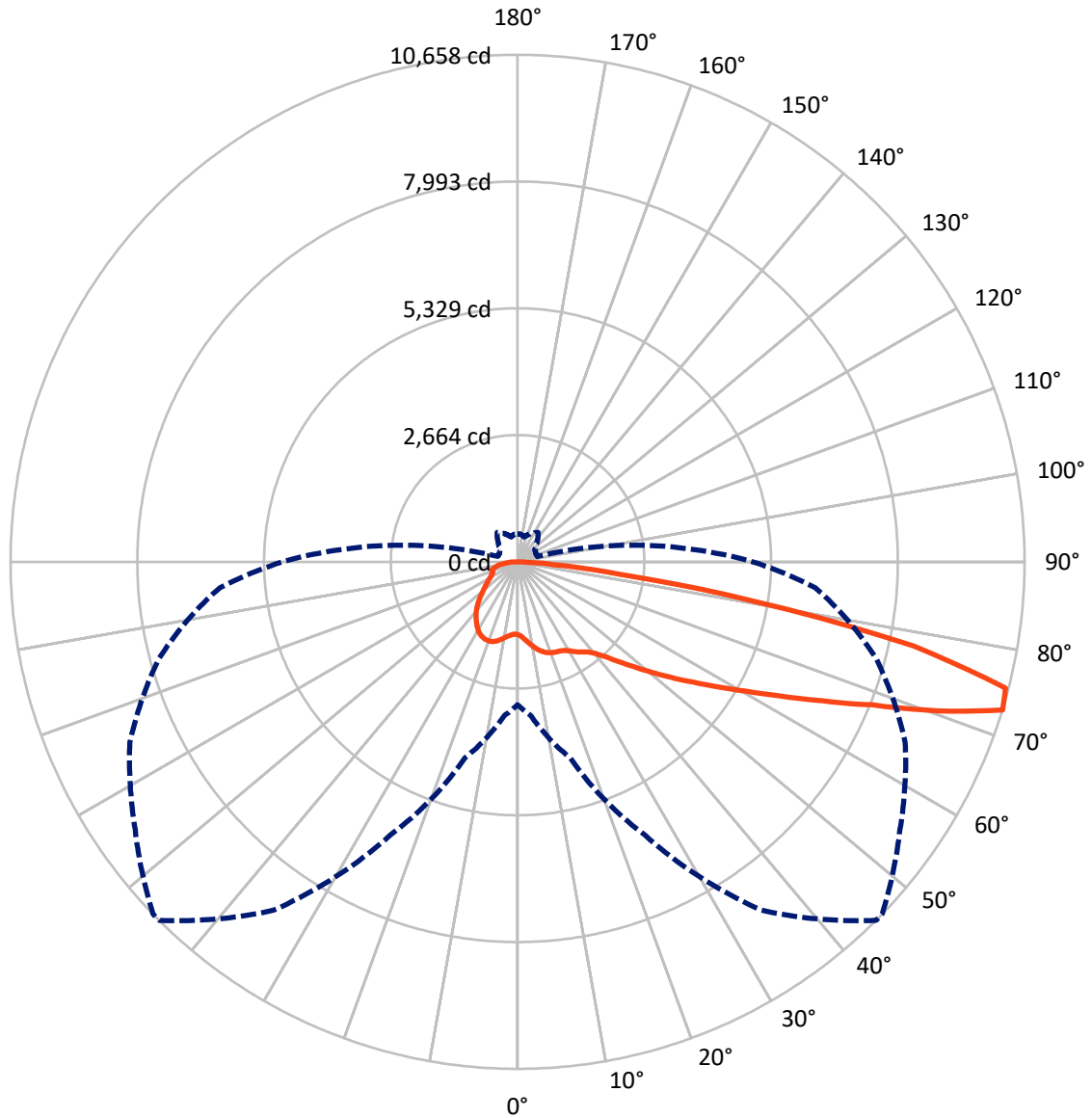
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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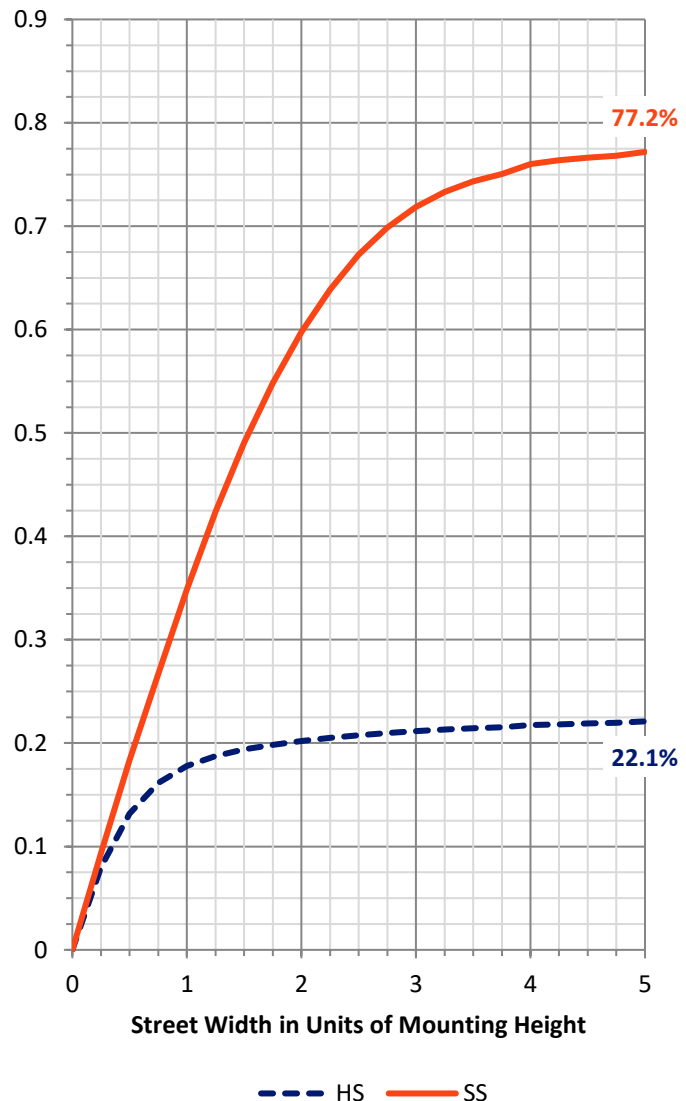
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3434.5	0.0	3434.5
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	11758.0	0.0	11758.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	15192.5	0.0	15192.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.0	1.0
10°-20°	520.1	3.4
20°-30°	904.7	6.0
30°-40°	1297.0	8.5
40°-50°	1826.2	12.0
50°-60°	2797.3	18.4
60°-70°	4052.2	26.7
70°-80°	3236.0	21.3
80°-90°	403.0	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°	15192.5	100.0
0°-180°	15192.5	100.0

**Coefficient of Utilization**



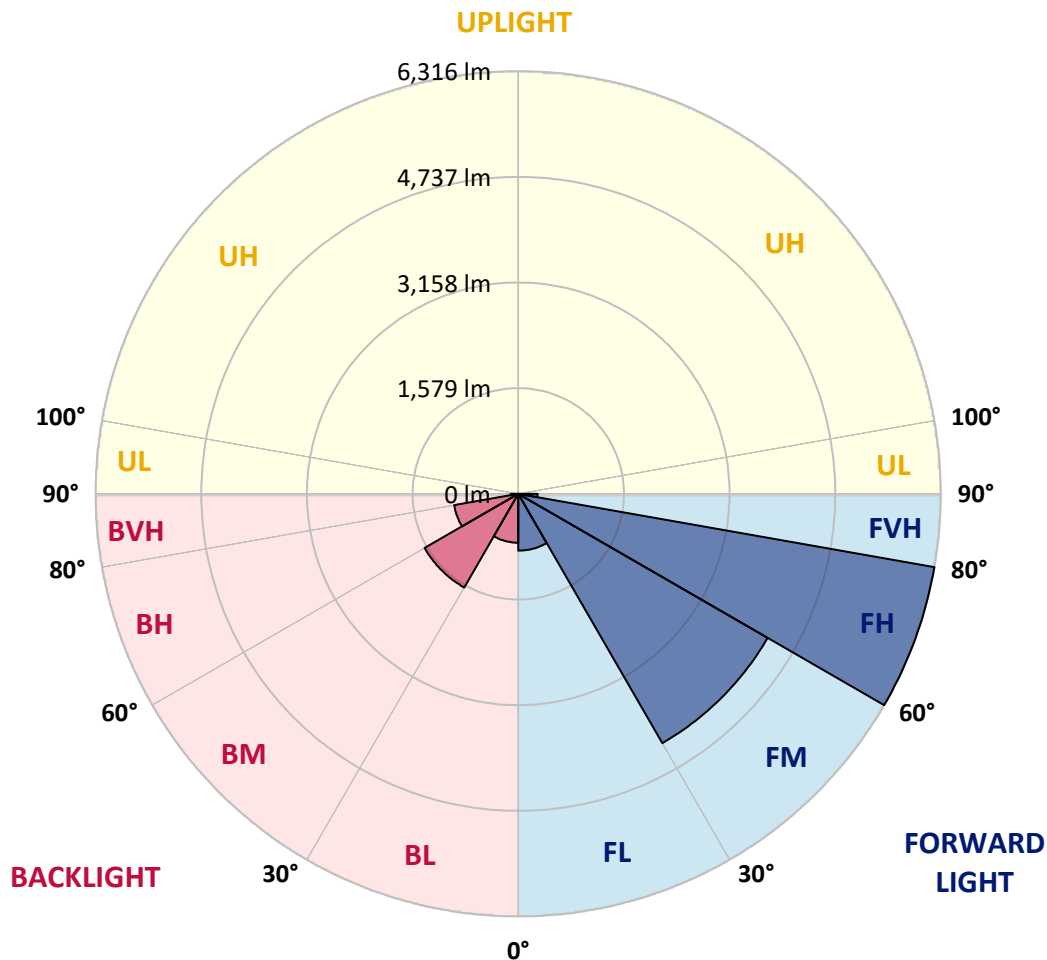
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.6	5.6			
FM (30°-60°)	4303.3	28.3			
FH (60°-80°)	6316.0	41.6			G3/7500
FVH (80°-90°)	289.1	1.9			G3/500
BL (0°-30°)	731.2	4.8	B2/1000		
BM (30°-60°)	1617.2	10.6	B2/2500		
BH (60°-80°)	972.2	6.4	B2/1000		G2/1000
BVH (80°-90°)	113.9	0.7			G2/225
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°	45°	46°	55°	65°	75°	85°
0°	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7
2.5°	1592.6	1603.1	1593.5	1584.6	1580.7	1570.2	1569.5	1563.0	1559.0	1547.9	1544.7
5°	1703.9	1717.5	1701.5	1683.9	1667.9	1642.3	1639.1	1620.6	1599.8	1575.8	1562.2
7.5°	1829.5	1841.5	1823.2	1796.7	1768.7	1726.3	1725.5	1691.9	1659.1	1618.3	1595.1
10°	1939.2	1955.2	1930.4	1894.4	1859.1	1811.2	1805.5	1767.1	1725.5	1672.7	1637.4
12.5°	2036.1	2047.2	2023.2	1979.2	1938.4	1890.4	1883.1	1840.8	1794.4	1734.3	1689.5
15°	2112.8	2127.3	2095.3	2048.1	2004.8	1957.6	1951.2	1912.8	1866.3	1803.2	1745.5
17.5°	2163.3	2175.3	2142.5	2089.7	2048.1	2008.8	2004.0	1972.0	1931.2	1867.1	1805.5
20°	2182.5	2195.3	2160.9	2107.3	2068.9	2038.4	2036.1	2012.8	1984.8	1926.4	1864.0
22.5°	2201.7	2213.7	2168.9	2112.8	2079.2	2060.0	2059.2	2044.1	2032.9	1984.8	1924.0
25°	2279.3	2282.6	2222.5	2141.6	2093.7	2076.9	2076.0	2075.2	2080.0	2042.4	1988.8
27.5°	2346.5	2345.8	2294.6	2218.5	2144.1	2108.8	2108.1	2116.1	2131.3	2100.0	2056.0
30°	2445.0	2436.2	2375.3	2296.1	2228.1	2173.7	2168.9	2161.7	2173.7	2148.9	2123.3
32.5°	2653.9	2625.8	2527.4	2386.6	2297.7	2256.1	2249.8	2204.9	2209.7	2194.5	2181.7
35°	2953.2	2916.4	2785.1	2557.9	2384.1	2325.0	2321.7	2264.9	2255.3	2241.7	2246.5
37.5°	3309.3	3263.7	3110.9	2805.9	2533.1	2405.0	2400.1	2349.0	2309.7	2295.4	2322.5
40°	3667.1	3609.5	3483.1	3108.5	2752.3	2538.6	2523.4	2445.9	2401.0	2377.0	2434.6
42.5°	4014.4	3966.4	3858.4	3447.8	3022.8	2733.9	2700.4	2567.4	2533.8	2511.5	2615.5
45°	4321.8	4278.6	4199.3	3810.3	3339.8	2999.7	2966.9	2750.0	2739.5	2739.5	2890.0
47.5°	4571.5	4561.9	4477.8	4180.2	3713.6	3302.1	3245.4	3003.7	3031.6	3074.9	3279.8
50°	4848.4	4822.0	4732.3	4544.2	4152.9	3648.7	3602.3	3315.0	3419.8	3538.3	3843.2
52.5°	5102.9	5117.3	5017.3	4923.6	4649.1	4035.2	3953.6	3682.3	3908.8	4104.9	4503.4
55°	5364.6	5365.5	5337.4	5324.6	5169.4	4462.6	4373.0	4124.1	4484.3	4727.5	5273.4
57.5°	5610.3	5611.9	5653.5	5766.3	5772.8	4955.7	4854.0	4666.7	5123.7	5371.8	6067.3
60°	5829.6	5840.9	5954.4	6218.6	6303.4	5520.6	5424.6	5307.8	5784.8	6034.5	6902.0
62.5°	5903.3	5944.1	6196.9	6572.3	6827.6	6213.8	6119.4	6049.7	6479.4	6711.6	7600.0
65°	5778.3	5872.0	6361.0	6864.4	7367.1	7037.3	6943.7	6867.6	7201.3	7419.9	8172.9
67.5°	5471.9	5592.7	6351.4	7171.0	8021.8	8028.1	7940.9	7762.4	7975.3	8059.4	8359.5
70°	4664.4	4845.2	5792.0	7285.4	8773.2	9383.1	9299.0	8839.6	8747.7	8341.0	7834.4
72.5°	3005.2	3248.5	4264.9	6343.4	8940.5	10657.9	10653.2	9812.0	8991.7	7793.6	6283.4
75°	1096.4	1245.3	1981.6	3981.6	7504.7	10593.2	10624.4	9645.6	8208.2	6020.1	3914.4
77.5°	399.3	437.0	646.7	1530.2	4615.5	8499.5	8564.3	7711.2	5842.4	3021.3	1551.0
80°	209.7	230.5	331.4	593.9	1977.6	5047.7	5149.3	4582.7	2746.0	910.0	465.0
82.5°	116.0	125.7	185.6	322.6	890.7	2158.4	2219.3	1810.4	966.0	385.8	192.1
85°	62.4	66.4	87.2	176.1	435.4	748.4	765.2	541.0	385.0	226.5	92.9
87.5°	18.4	22.4	28.8	56.1	170.5	168.1	172.1	107.2	152.1	114.5	30.4
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°	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7	1532.7
2.5°	1539.9	1537.4	1528.6	1524.6	1519.9	1519.0	1523.0	1523.9	1524.6	1525.4	1528.6
5°	1554.2	1546.2	1538.2	1533.4	1535.0	1535.9	1543.9	1549.4	1553.5	1556.7	1558.2
7.5°	1582.3	1575.8	1562.2	1561.5	1563.8	1571.0	1581.5	1594.3	1601.5	1607.1	1608.6
10°	1623.9	1611.9	1595.8	1598.3	1603.1	1613.5	1635.1	1645.4	1657.5	1667.9	1665.5
12.5°	1666.2	1655.9	1637.4	1639.1	1647.1	1665.5	1686.3	1699.1	1707.1	1715.1	1718.3
15°	1721.5	1703.1	1683.0	1683.0	1697.5	1717.5	1727.1	1737.5	1742.3	1751.1	1754.3
17.5°	1778.4	1754.3	1727.9	1726.3	1743.9	1753.6	1759.1	1760.7	1762.3	1771.9	1775.1
20°	1835.2	1808.7	1771.1	1767.9	1771.9	1770.4	1769.6	1767.9	1770.4	1782.4	1787.1
22.5°	1891.2	1860.8	1808.7	1794.4	1783.1	1767.9	1767.1	1766.3	1767.9	1779.9	1787.9
25°	1956.8	1920.0	1850.3	1807.2	1769.6	1748.8	1751.1	1751.9	1753.6	1763.1	1775.9
27.5°	2028.1	1987.3	1888.8	1803.2	1735.1	1720.7	1716.7	1719.1	1724.7	1739.9	1755.1
30°	2099.3	2051.2	1924.0	1787.1	1691.9	1671.9	1659.1	1664.7	1682.3	1697.5	1714.3
32.5°	2164.1	2116.1	1952.0	1751.9	1636.7	1605.5	1588.6	1595.8	1613.5	1619.1	1639.1
35°	2240.1	2185.7	1964.0	1695.9	1576.7	1528.6	1506.2	1495.8	1504.6	1499.1	1516.6
37.5°	2325.0	2268.1	1962.4	1622.3	1506.2	1451.0	1419.8	1380.6	1362.1	1343.0	1354.9
40°	2450.6	2369.0	1943.2	1533.4	1419.0	1368.6	1312.5	1246.1	1204.5	1166.9	1169.3
42.5°	2621.8	2509.0	1908.0	1435.8	1320.5	1273.4	1197.3	1119.7	1054.0	991.6	986.0
45°	2877.2	2692.3	1864.0	1331.8	1214.1	1167.7	1085.3	998.0	923.6	843.6	833.9
47.5°	3245.4	2938.8	1822.3	1213.3	1102.1	1059.6	985.2	904.4	816.3	738.7	729.9
50°	3751.2	3292.6	1783.9	1098.1	991.6	959.6	900.4	817.9	729.1	666.7	662.7
52.5°	4394.6	3773.5	1767.9	986.8	888.4	876.4	829.1	752.3	668.3	615.4	611.4
55°	5133.3	4349.0	1767.9	880.4	798.0	802.0	769.2	697.9	625.0	577.8	573.1
57.5°	5887.2	4931.7	1735.9	782.0	721.1	737.9	717.1	654.7	589.1	540.2	532.2
60°	6581.9	5419.8	1606.3	692.3	653.0	679.5	665.8	612.2	532.2	491.4	485.0
62.5°	7115.8	5695.1	1356.6	621.0	597.1	627.5	620.2	556.3	521.8	505.0	499.4
65°	7383.1	5650.3	1037.2	557.8	549.8	597.1	581.8	579.4	552.3	533.0	526.6
67.5°	7219.0	5264.6	752.3	511.4	522.6	569.1	627.5	637.0	586.6	549.0	542.6
70°	6499.5	4566.7	560.3	467.4	488.2	569.8	715.4	666.7	575.4	531.5	524.2
72.5°	4944.4	3405.4	434.6	421.0	443.4	573.8	754.7	653.0	543.5	587.4	582.6
75°	2827.6	1869.6	348.9	364.2	387.3	536.2	734.7	617.9	518.6	539.5	539.5
77.5°	1078.1	718.7	288.1	308.1	311.3	468.2	702.7	615.4	493.8	481.7	439.4
80°	373.7	281.0	238.5	244.9	240.9	416.2	673.8	535.5	404.2	361.7	349.7
82.5°	152.8	140.0	188.9	180.9	171.3	323.3	544.3	437.8	330.6	292.1	288.9
85°	66.4	88.9	124.8	109.7	99.2	224.1	436.1	370.5	279.3	240.9	240.1
87.5°	13.6	33.6	52.8	49.6	51.2	149.6	309.8	263.3	197.7	148.0	116.0
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)