

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: P960775

Luminaire Tested: **NAV-SB1D-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8567 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

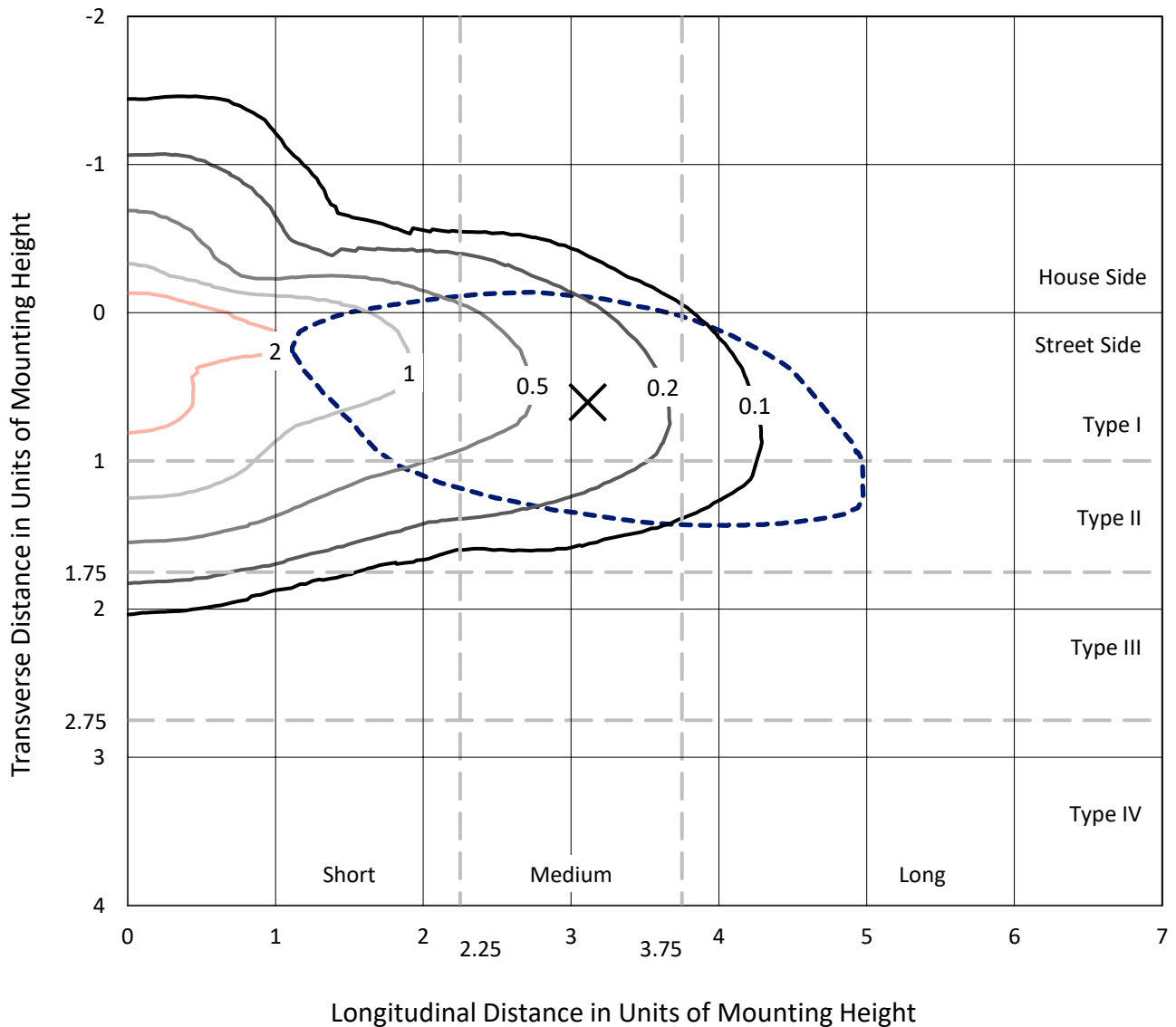
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

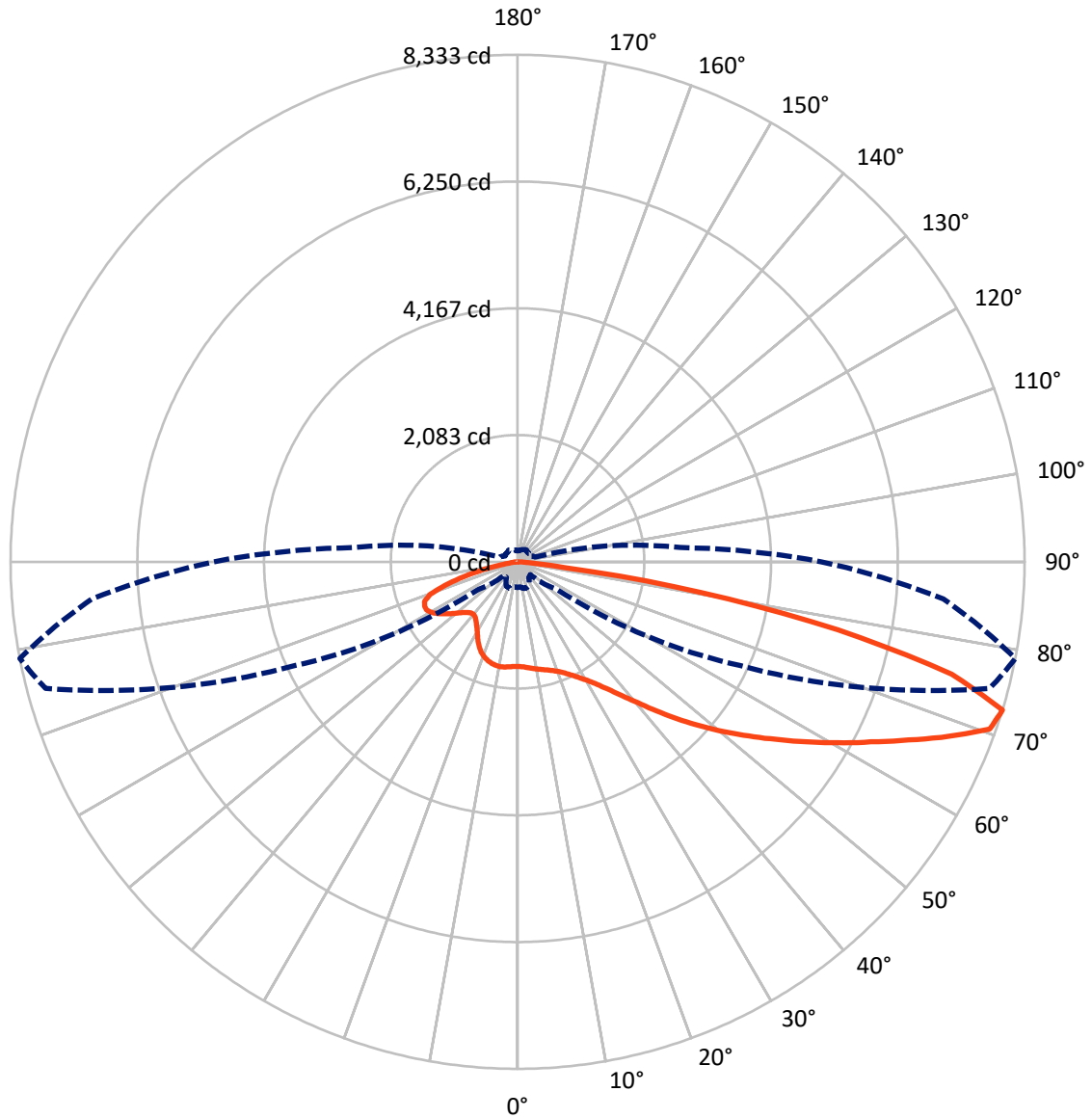
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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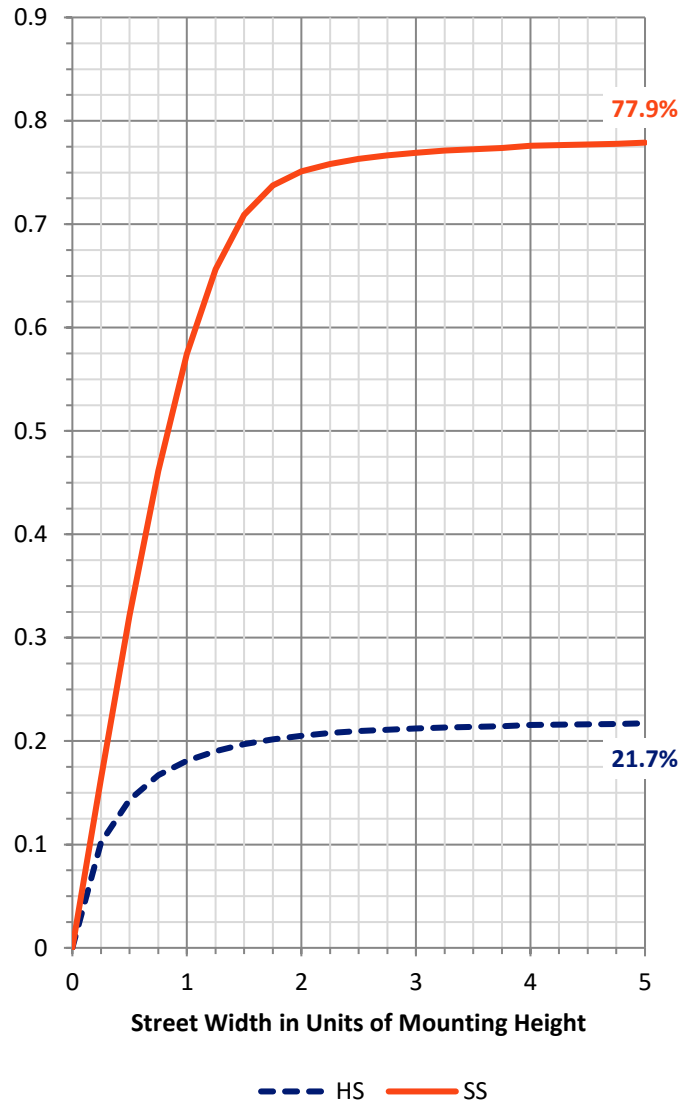
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1885.2	0.0	1885.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	6681.7	0.0	6681.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	8567.0	0.0	8567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	1.8
10°-20°	408.1	4.8
20°-30°	658.6	7.7
30°-40°	988.4	11.5
40°-50°	1402.1	16.4
50°-60°	1770.7	20.7
60°-70°	1798.3	21.0
70°-80°	1225.7	14.3
80°-90°	159.0	1.9
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°	8567.0	100.0
0°-180°	8567.0	100.0

Coefficient of Utilization

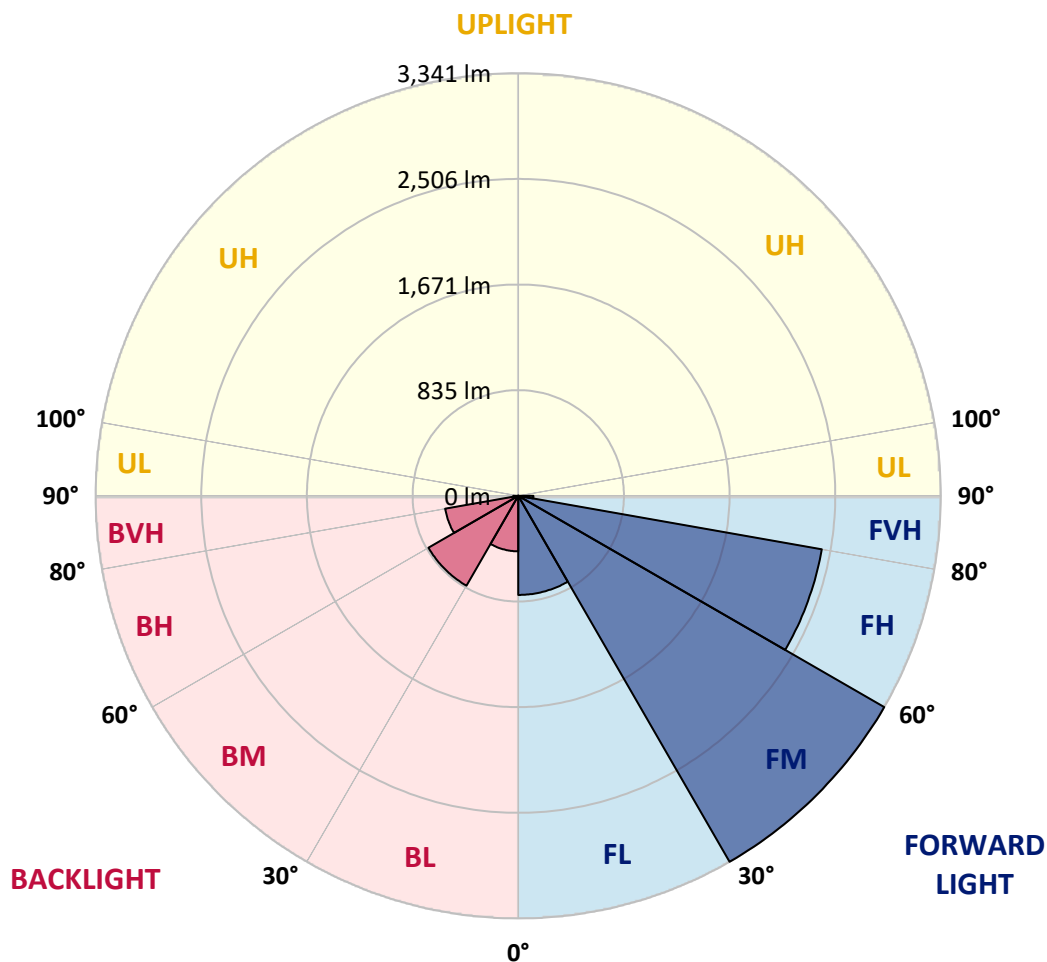


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 CATALOG NUMBER: NAV-SB1D-722-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.7	9.1			
FM (30°-60°)	3341.3	39.0			
FH (60°-80°)	2437.0	28.4			G2/5000
FVH (80°-90°)	119.8	1.4			G2/225
BL (0°-30°)	439.1	5.1	B1/500		
BM (30°-60°)	819.9	9.6	B1/1000		
BH (60°-80°)	587.0	6.9	B2/1000		G2/1000
BVH (80°-90°)	39.2	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-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7
2.5°	1720.7	1712.5	1717.5	1715.6	1717.9	1720.7	1721.6	1722.9	1727.4	1727.0	1726.5
5°	1717.0	1708.9	1715.6	1713.4	1719.2	1725.6	1731.0	1736.0	1743.3	1746.5	1742.0
7.5°	1709.3	1703.9	1710.6	1717.5	1728.4	1737.9	1745.6	1756.8	1767.3	1769.2	1772.3
10°	1664.5	1660.4	1676.2	1693.9	1723.8	1749.7	1766.4	1779.5	1790.9	1792.7	1797.2
12.5°	1617.8	1612.8	1630.5	1654.5	1702.9	1749.7	1785.0	1802.3	1812.2	1818.0	1824.9
15°	1610.1	1606.0	1615.9	1636.8	1677.1	1737.4	1797.6	1829.4	1838.0	1844.8	1847.6
17.5°	1647.3	1639.5	1643.6	1650.9	1674.4	1726.1	1807.7	1860.2	1873.4	1880.6	1880.6
20°	1733.4	1722.4	1716.2	1701.6	1697.5	1727.8	1806.8	1897.4	1914.6	1923.6	1925.9
22.5°	1848.0	1840.7	1827.2	1790.5	1750.6	1750.1	1824.0	1944.9	1977.1	1985.7	1980.3
25°	1986.7	1975.8	1958.6	1908.7	1832.1	1794.1	1853.0	2005.7	2059.6	2061.9	2046.0
27.5°	2146.1	2129.8	2106.3	2040.6	1937.2	1862.9	1897.4	2075.4	2154.3	2153.4	2120.8
30°	2314.2	2297.9	2273.0	2193.3	2063.2	1955.8	1959.0	2150.7	2266.7	2261.7	2206.0
32.5°	2437.0	2424.8	2419.8	2358.2	2208.3	2065.5	2029.7	2234.1	2405.4	2400.9	2322.9
35°	2531.3	2515.5	2521.4	2490.1	2366.4	2188.3	2116.2	2333.3	2574.0	2573.5	2476.5
37.5°	2624.7	2610.7	2615.6	2594.8	2512.8	2344.2	2221.8	2454.8	2782.9	2792.8	2662.3
40°	2709.9	2694.9	2714.9	2695.3	2626.5	2510.0	2341.9	2592.0	3024.9	3043.8	2887.1
42.5°	2761.0	2749.4	2782.4	2782.9	2725.3	2650.0	2473.8	2743.4	3304.9	3347.4	3163.5
45°	2778.8	2774.7	2824.5	2834.9	2812.7	2731.2	2592.5	2908.3	3606.7	3682.8	3478.4
47.5°	2759.7	2752.0	2820.9	2859.4	2877.1	2769.2	2690.8	3086.9	3914.8	4026.3	3821.9
50°	2663.7	2648.7	2751.1	2832.3	2895.2	2794.1	2790.0	3293.1	4265.1	4387.0	4167.2
52.5°	2491.1	2479.7	2596.1	2737.1	2855.3	2806.4	2901.6	3518.3	4597.7	4755.5	4521.2
55°	2270.3	2255.4	2383.6	2567.6	2756.1	2802.4	3013.1	3770.3	4990.2	5150.1	4886.9
57.5°	1920.4	1890.6	2052.8	2270.3	2594.4	2797.3	3129.0	4020.9	5388.9	5580.6	5277.0
60°	1410.2	1365.8	1564.8	1822.6	2278.1	2748.8	3272.7	4301.8	5867.5	6040.1	5703.0
62.5°	821.1	795.3	925.4	1165.9	1717.0	2463.4	3353.4	4628.6	6337.9	6519.1	6121.7
65°	637.6	630.4	641.6	660.2	955.7	1844.4	3104.6	4947.2	6936.1	7063.0	6558.1
67.5°	583.2	577.8	582.7	547.9	484.9	1027.4	2456.1	5027.8	7576.8	7653.9	6940.1
70°	518.4	512.1	528.4	498.5	381.6	467.2	1587.0	4735.1	8086.6	8231.2	7230.6
72.5°	422.3	415.1	453.2	439.5	321.3	300.0	797.1	4039.4	8033.1	8333.1	7022.6
75°	324.4	320.4	365.7	377.0	261.9	236.1	382.4	3002.6	7069.2	7371.5	6052.4
77.5°	251.9	248.8	271.9	313.1	211.2	183.1	235.2	1904.7	5327.3	5380.3	4170.8
80°	189.0	179.9	201.2	242.4	164.5	133.7	159.5	1110.7	3367.4	3052.4	1815.4
82.5°	118.3	113.8	131.4	161.7	116.0	91.9	103.7	613.6	1349.5	794.9	350.2
85°	67.5	65.7	71.6	92.5	63.0	53.0	59.3	271.0	246.5	169.4	105.6
87.5°	27.2	26.2	32.6	41.2	23.1	19.5	20.8	65.3	54.4	50.3	34.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P960775
 CATALOG NUMBER: NAV-SB1D-722-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7
2.5°	1724.8	1724.8	1718.4	1708.4	1697.1	1689.8	1678.0	1674.8	1662.7	1659.0	1664.9
5°	1745.6	1742.0	1722.4	1694.3	1655.9	1620.5	1581.5	1557.1	1522.6	1510.3	1519.5
7.5°	1771.8	1761.9	1728.4	1666.8	1586.1	1506.7	1424.2	1361.7	1302.0	1280.6	1283.3
10°	1795.9	1781.9	1724.8	1616.8	1477.3	1340.0	1208.6	1116.5	1046.8	1018.2	1024.6
12.5°	1819.9	1794.1	1700.7	1533.9	1322.8	1136.5	996.5	924.9	881.8	847.4	858.7
15°	1842.5	1806.3	1663.6	1422.9	1153.3	964.3	861.0	803.9	769.5	746.8	750.9
17.5°	1868.8	1816.7	1607.8	1282.0	992.0	845.1	760.9	726.4	719.7	716.9	718.7
20°	1905.6	1826.2	1534.4	1124.3	873.2	750.0	706.4	703.3	702.8	701.5	706.0
22.5°	1944.9	1837.5	1437.5	981.1	772.1	690.6	683.0	676.6	672.5	672.0	677.0
25°	1991.7	1841.2	1316.0	863.8	686.0	662.6	653.4	643.9	641.2	641.2	643.9
27.5°	2037.0	1828.9	1174.5	761.8	637.6	636.7	624.9	621.8	621.3	622.7	626.3
30°	2082.3	1805.8	1034.1	667.5	609.5	609.5	605.5	607.7	609.5	614.1	617.2
32.5°	2143.5	1781.3	916.8	597.7	585.1	580.5	584.6	589.1	590.9	596.9	601.8
35°	2233.2	1764.1	823.4	559.6	559.6	553.8	556.1	555.1	551.0	548.3	554.6
37.5°	2351.9	1763.2	746.3	542.0	538.3	537.4	537.9	532.0	516.2	497.1	497.5
40°	2494.6	1787.7	687.0	529.7	527.1	532.5	529.7	513.8	470.4	437.3	436.3
42.5°	2686.3	1857.5	648.9	514.8	523.0	529.7	518.9	464.0	434.6	412.4	411.4
45°	2912.0	1970.8	629.5	499.0	515.3	523.4	470.8	446.8	423.2	396.5	394.7
47.5°	3167.6	2113.5	624.9	484.0	498.0	503.0	450.5	439.5	412.9	383.9	381.6
50°	3445.8	2282.6	637.1	466.3	473.1	455.9	443.6	433.7	406.0	377.5	374.3
52.5°	3733.6	2468.8	661.6	442.3	448.1	429.2	441.0	432.3	401.9	363.5	360.7
55°	4016.4	2656.4	685.2	414.2	422.8	405.1	433.3	426.9	383.3	339.9	337.6
57.5°	4303.7	2843.1	708.3	389.3	398.3	382.0	421.0	412.4	362.5	318.2	317.2
60°	4602.2	3024.4	719.1	365.2	371.6	360.7	402.4	387.4	339.0	295.9	294.6
62.5°	4881.9	3175.2	701.5	341.2	345.3	340.8	377.9	358.0	315.4	271.0	270.5
65°	5162.4	3265.0	647.1	317.6	318.6	316.3	343.5	326.3	287.7	249.3	246.5
67.5°	5416.6	3315.3	560.6	292.3	290.0	289.2	311.3	291.8	261.1	227.4	224.8
70°	5470.5	3187.5	428.2	262.4	262.4	260.1	275.9	256.0	231.5	204.4	203.5
72.5°	4996.6	2681.3	304.1	228.4	232.1	227.4	240.7	223.9	201.6	183.6	178.0
75°	4029.1	1966.3	221.1	193.5	199.9	192.2	204.4	192.6	173.5	173.1	155.9
77.5°	2768.3	1215.9	160.4	159.5	164.0	154.1	168.1	161.7	144.5	136.8	128.2
80°	1181.4	484.9	117.0	123.3	123.3	114.2	130.5	132.3	117.4	113.8	113.8
82.5°	235.2	137.8	82.0	84.8	79.7	77.1	92.5	102.4	141.3	157.2	157.7
85°	70.7	50.7	49.4	46.2	40.8	41.2	54.4	102.9	126.9	72.5	62.5
87.5°	19.5	12.7	13.1	10.5	8.6	11.4	18.6	77.9	42.6	18.1	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

(END OF REPORT)