

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: P961831

Luminaire Tested: **NAV-SB2B-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9319.3 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

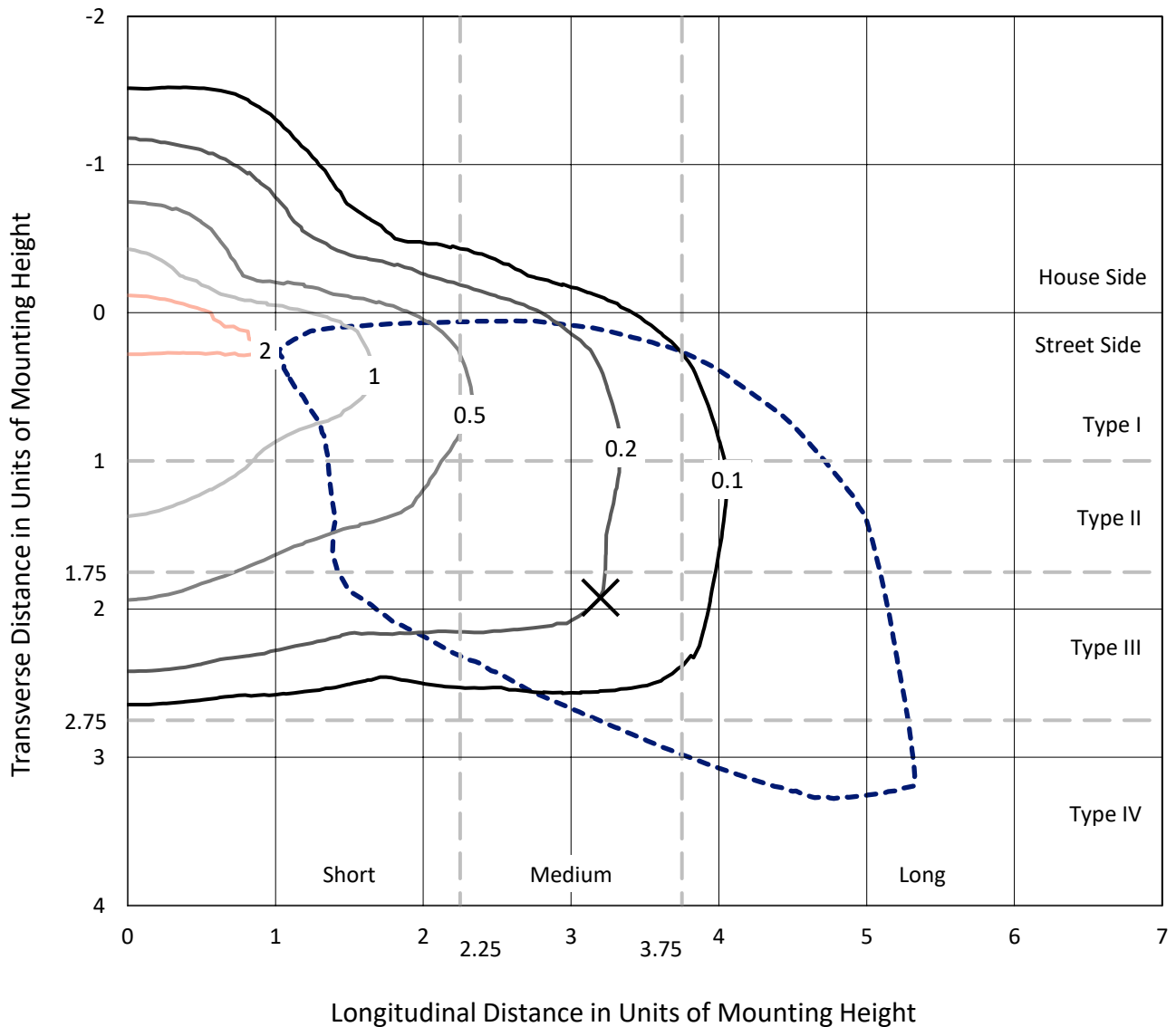
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

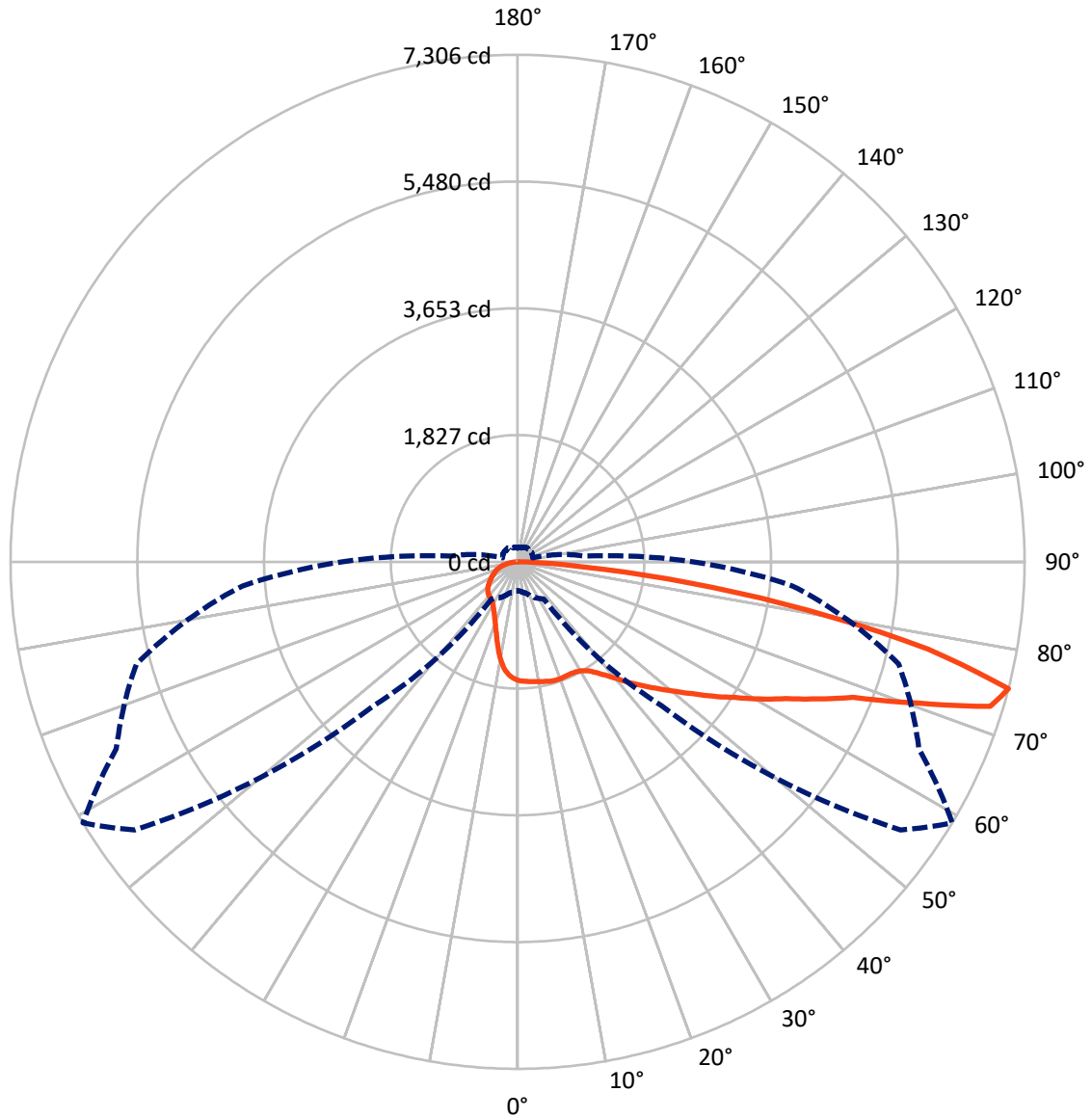
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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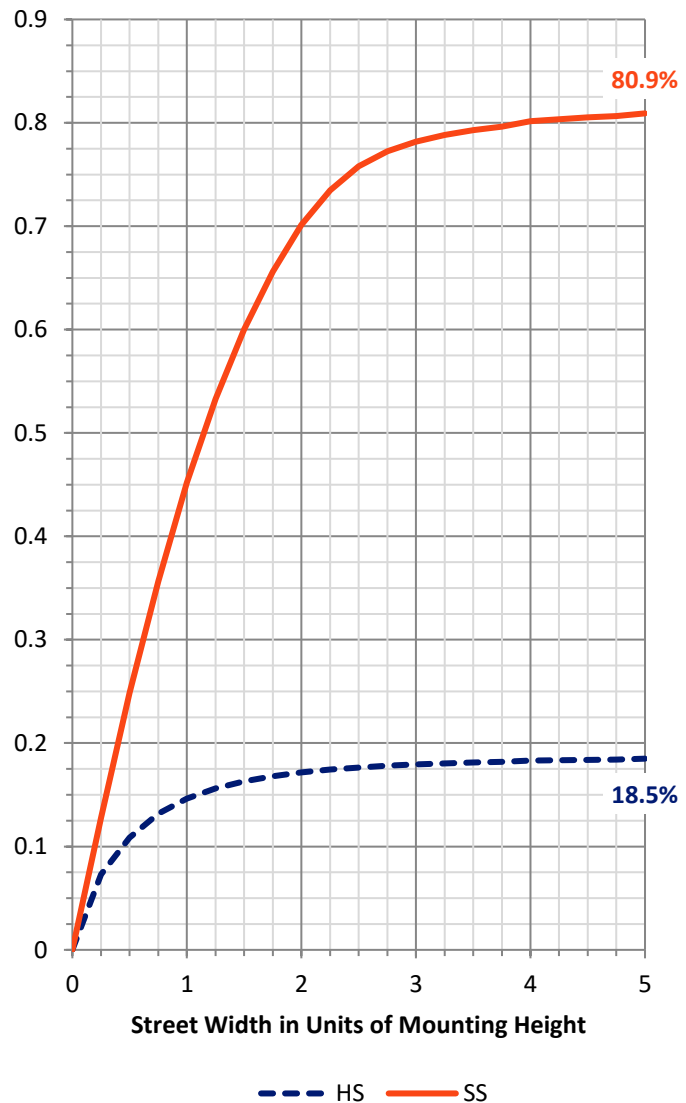
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1747.9	0.0	1747.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7571.4	0.0	7571.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	9319.3	0.0	9319.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	1.6
10°-20°	392.0	4.2
20°-30°	595.5	6.4
30°-40°	885.2	9.5
40°-50°	1316.4	14.1
50°-60°	1786.9	19.2
60°-70°	2181.5	23.4
70°-80°	1712.0	18.4
80°-90°	296.6	3.2
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°	9319.3	100.0
0°-180°	9319.3	100.0

Coefficient of Utilization

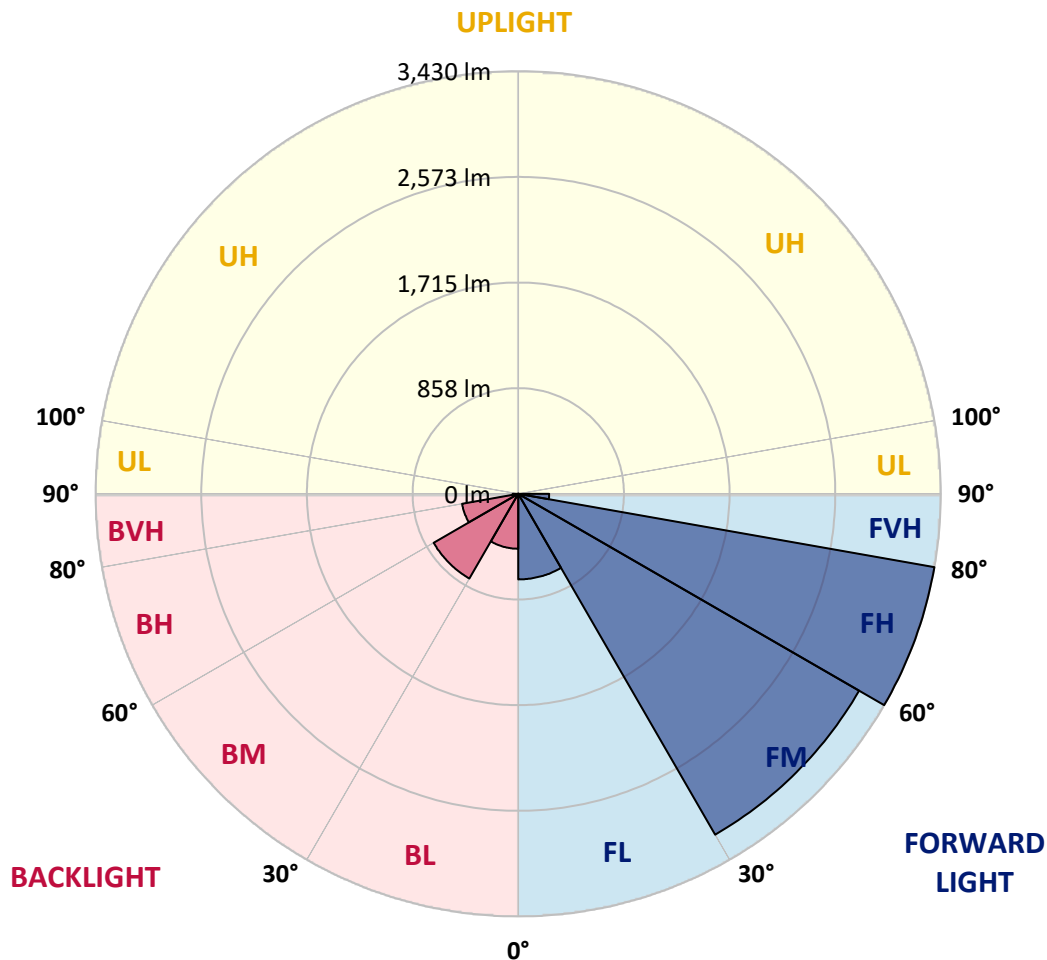


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.9	7.5			
FM (30°-60°)	3195.0	34.3			
FH (60°-80°)	3430.3	36.8			G2/5000
FVH (80°-90°)	251.2	2.7			G3/500
BL (0°-30°)	446.0	4.8	B1/500		
BM (30°-60°)	793.4	8.5	B1/1000		
BH (60°-80°)	463.1	5.0	B1/500		G1/500
BVH (80°-90°)	45.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5
2.5°	1725.1	1719.0	1725.1	1722.6	1721.6	1719.5	1720.1	1723.5	1721.6	1724.0	1715.5
5°	1713.6	1710.0	1716.1	1714.5	1721.1	1722.1	1728.6	1732.6	1735.1	1735.6	1729.1
7.5°	1694.5	1690.9	1699.6	1706.5	1720.6	1724.6	1738.1	1744.7	1748.1	1754.2	1744.7
10°	1624.8	1623.3	1644.4	1671.0	1704.1	1724.6	1745.2	1756.1	1761.7	1777.8	1766.7
12.5°	1501.5	1503.5	1531.0	1582.2	1648.4	1714.5	1753.2	1769.2	1777.8	1797.7	1792.7
15°	1383.6	1383.1	1413.3	1467.9	1560.7	1670.4	1757.2	1784.7	1799.3	1828.8	1824.8
17.5°	1315.5	1313.4	1334.6	1376.2	1462.4	1602.8	1747.1	1793.2	1824.3	1861.4	1857.9
20°	1303.0	1299.0	1309.9	1330.6	1391.6	1528.6	1721.1	1793.2	1844.4	1892.6	1890.5
22.5°	1348.6	1342.0	1337.5	1335.1	1362.1	1467.4	1691.5	1787.2	1874.0	1937.1	1933.7
25°	1440.3	1430.3	1407.2	1384.7	1376.7	1439.8	1665.4	1785.8	1918.1	1997.3	1984.3
27.5°	1588.7	1576.1	1529.6	1475.4	1426.8	1453.9	1653.8	1794.8	1966.7	2061.0	2034.9
30°	1772.7	1759.2	1700.5	1617.2	1530.0	1506.0	1668.4	1821.3	2028.9	2145.7	2094.6
32.5°	1937.7	1922.6	1872.5	1787.7	1669.9	1596.2	1714.5	1872.0	2126.7	2263.5	2184.3
35°	2084.0	2066.5	2021.4	1943.2	1841.4	1723.0	1797.7	1961.7	2265.6	2455.0	2306.1
37.5°	2227.4	2206.8	2157.7	2075.0	2003.8	1892.0	1912.5	2077.0	2450.0	2687.7	2467.6
40°	2387.8	2358.2	2298.6	2216.9	2147.7	2090.1	2063.4	2218.4	2637.5	2947.3	2669.1
42.5°	2543.2	2515.1	2444.0	2374.3	2287.6	2271.0	2238.4	2383.8	2842.5	3232.5	2873.6
45°	2710.7	2677.1	2590.9	2502.6	2448.0	2391.3	2407.9	2549.3	3043.5	3523.3	3088.2
47.5°	2867.6	2830.0	2728.2	2629.9	2599.9	2492.6	2563.3	2731.2	3252.6	3818.1	3300.7
50°	2952.3	2915.2	2830.5	2741.8	2718.2	2617.4	2731.7	2931.3	3471.7	4111.9	3504.8
52.5°	3023.0	2983.0	2872.2	2823.0	2816.0	2753.3	2939.3	3159.9	3690.8	4371.6	3701.8
55°	3098.3	3053.6	2912.2	2868.2	2900.2	2905.7	3185.5	3419.1	3922.4	4624.8	3887.8
57.5°	3185.0	3128.3	2950.9	2906.2	2982.4	3084.2	3468.2	3687.7	4150.0	4859.4	4053.3
60°	3266.7	3209.5	3025.0	2966.9	3071.1	3291.3	3792.6	4013.2	4407.7	5068.4	4209.7
62.5°	3282.7	3235.6	3084.2	3083.7	3191.4	3532.9	4176.6	4341.5	4632.8	5275.0	4350.0
65°	3005.0	2975.4	2885.7	3079.2	3363.9	3880.8	4604.2	4761.6	4919.1	5455.5	4473.4
67.5°	2287.1	2291.1	2284.5	2658.0	3224.5	4380.6	5223.4	5211.3	5272.5	5658.0	4615.3
70°	1045.8	1069.4	1222.7	1834.9	2583.3	4438.2	6247.1	6091.2	5716.1	5920.2	4738.1
72.5°	565.0	583.0	645.8	888.9	1553.1	3945.9	7012.1	7122.9	6306.2	6096.7	4603.2
75°	414.6	424.7	468.2	565.0	652.2	2932.7	6737.8	7306.4	6379.9	5685.1	3975.1
77.5°	310.4	314.9	350.4	447.7	333.8	1546.1	5383.8	6051.1	5461.5	4670.9	2936.3
80°	225.1	230.1	256.7	335.9	234.1	565.5	3696.8	4247.3	3740.4	2977.4	1463.4
82.5°	155.4	157.4	168.9	228.6	163.4	219.6	2097.6	2490.6	2088.0	1044.8	395.0
85°	93.8	96.2	101.3	133.4	92.8	104.2	905.4	936.4	624.1	249.7	122.8
87.5°	38.6	41.1	45.1	56.2	36.6	29.1	149.4	187.5	116.8	73.2	38.1
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°	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5	1710.5
2.5°	1713.1	1709.5	1700.0	1686.9	1675.0	1659.9	1653.4	1647.9	1642.9	1633.3	1628.8
5°	1723.5	1714.0	1688.5	1655.4	1617.8	1576.7	1536.6	1509.0	1485.4	1467.9	1453.3
7.5°	1739.6	1721.6	1675.0	1607.3	1521.0	1432.8	1353.1	1296.4	1253.8	1238.3	1211.2
10°	1756.1	1734.6	1653.4	1534.1	1385.2	1249.3	1143.5	1085.4	1051.2	1040.3	1023.3
12.5°	1775.7	1744.1	1619.8	1432.3	1233.3	1084.3	992.1	958.1	940.5	934.5	936.0
15°	1804.3	1752.1	1569.2	1304.9	1088.3	964.0	904.4	880.9	871.8	871.4	873.3
17.5°	1825.8	1753.7	1490.5	1168.6	977.1	891.3	842.2	833.2	839.3	848.3	851.8
20°	1849.9	1740.1	1387.1	1044.3	898.9	827.7	807.2	813.1	827.7	840.7	845.2
22.5°	1866.9	1715.5	1262.4	947.5	831.2	791.1	790.1	802.7	810.7	817.1	820.7
25°	1882.0	1673.9	1130.0	866.3	775.5	769.1	780.0	776.0	770.5	776.0	779.6
27.5°	1893.0	1608.2	1011.7	795.1	736.5	754.0	747.5	738.4	738.0	741.0	746.0
30°	1889.5	1520.5	914.4	727.4	708.9	725.9	710.4	708.9	707.4	708.9	714.4
32.5°	1889.5	1420.8	839.7	680.8	691.4	684.8	683.3	679.8	673.8	673.3	679.8
35°	1900.0	1321.0	775.5	655.7	676.8	661.2	662.3	653.7	641.2	635.2	641.2
37.5°	1921.6	1240.8	711.9	643.7	651.2	650.8	646.7	632.2	610.1	591.1	597.6
40°	1973.7	1217.2	668.3	638.2	639.2	645.2	634.7	606.6	556.5	525.4	529.4
42.5°	2055.4	1256.9	658.8	624.6	631.2	637.1	616.6	551.4	515.9	497.3	497.3
45°	2159.3	1326.0	679.3	605.1	612.1	622.7	561.5	530.4	514.3	514.9	517.4
47.5°	2290.6	1398.7	717.4	588.0	584.6	590.6	524.9	505.8	483.8	489.3	503.4
50°	2442.5	1472.4	753.5	565.0	554.0	534.4	501.3	483.3	455.2	442.2	445.7
52.5°	2606.9	1543.5	768.0	536.9	520.9	498.4	485.3	463.2	429.2	407.5	407.1
55°	2762.8	1608.2	752.0	503.4	487.8	470.3	468.2	454.7	418.1	388.1	388.1
57.5°	2910.2	1662.4	711.9	469.2	454.2	443.7	457.3	450.7	404.6	365.9	364.0
60°	3035.0	1699.6	653.7	434.7	424.1	418.6	439.2	437.2	385.5	342.5	340.9
62.5°	3134.3	1714.0	589.6	401.6	399.0	389.0	414.1	414.1	361.4	319.4	317.9
65°	3212.0	1700.0	524.4	369.0	374.0	359.0	383.6	380.5	335.9	298.8	296.7
67.5°	3280.7	1653.8	452.2	336.9	348.4	329.3	351.5	344.4	307.8	278.3	276.2
70°	3311.3	1546.6	370.0	304.8	318.9	300.3	319.4	306.3	276.2	256.1	252.2
72.5°	3065.7	1285.5	291.3	271.2	283.2	268.2	284.7	269.7	242.1	233.1	225.6
75°	2536.3	964.5	224.1	234.6	243.6	232.2	243.1	232.2	207.0	213.6	195.1
77.5°	1841.9	651.2	171.5	196.0	200.1	194.0	203.6	191.0	168.4	167.0	159.4
80°	915.9	381.5	134.4	154.9	153.4	149.4	160.4	154.4	135.4	143.4	141.9
82.5°	265.2	163.4	97.8	108.8	105.8	106.8	114.8	117.8	176.5	175.0	179.0
85°	83.2	64.2	58.6	60.7	57.6	59.1	67.6	134.4	124.3	72.7	78.7
87.5°	21.5	22.0	14.6	15.6	16.1	19.1	21.5	81.7	39.1	25.5	27.1
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)