

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: P883571

Luminaire Tested: **NAV-SB4A-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14318 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

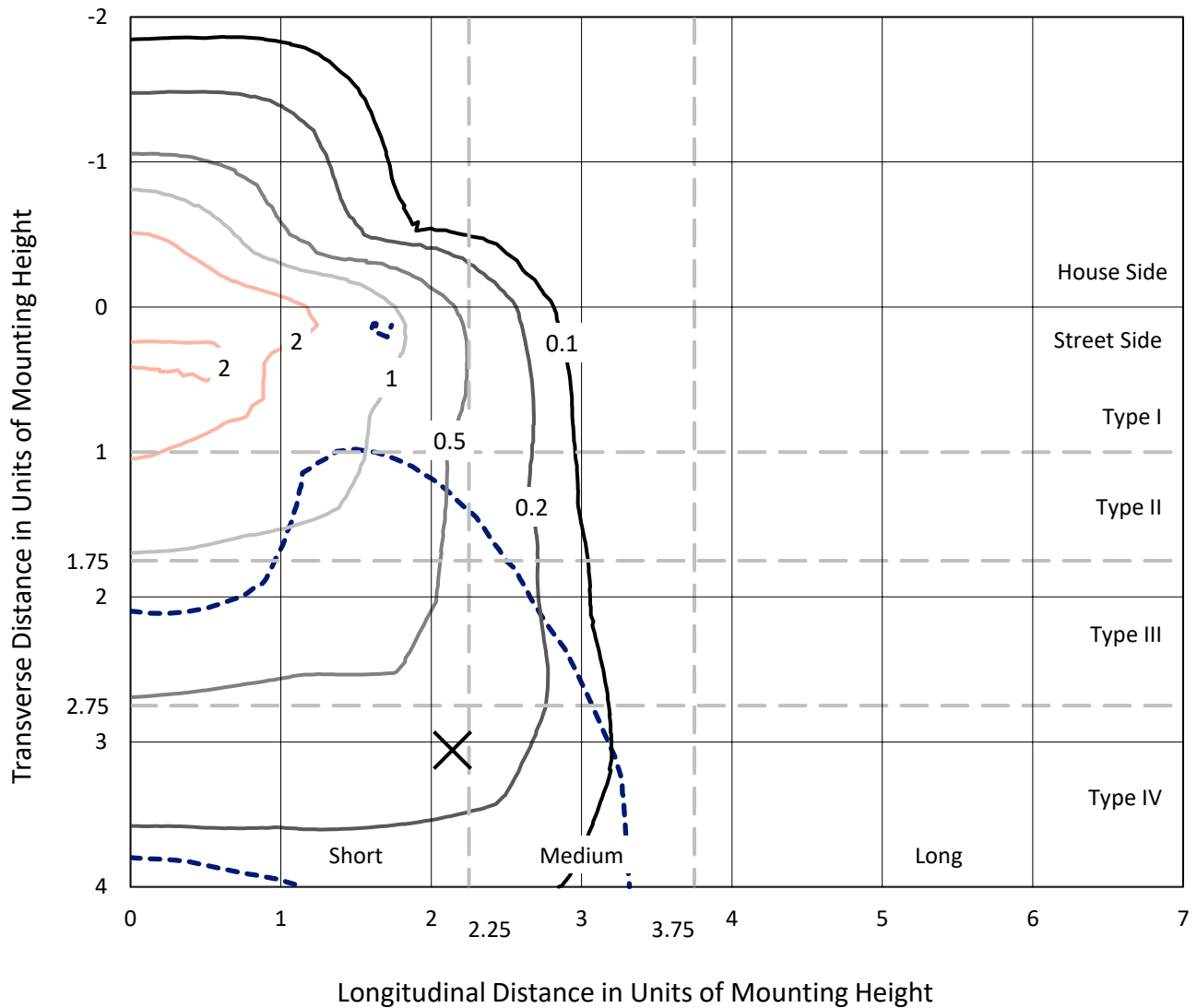
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

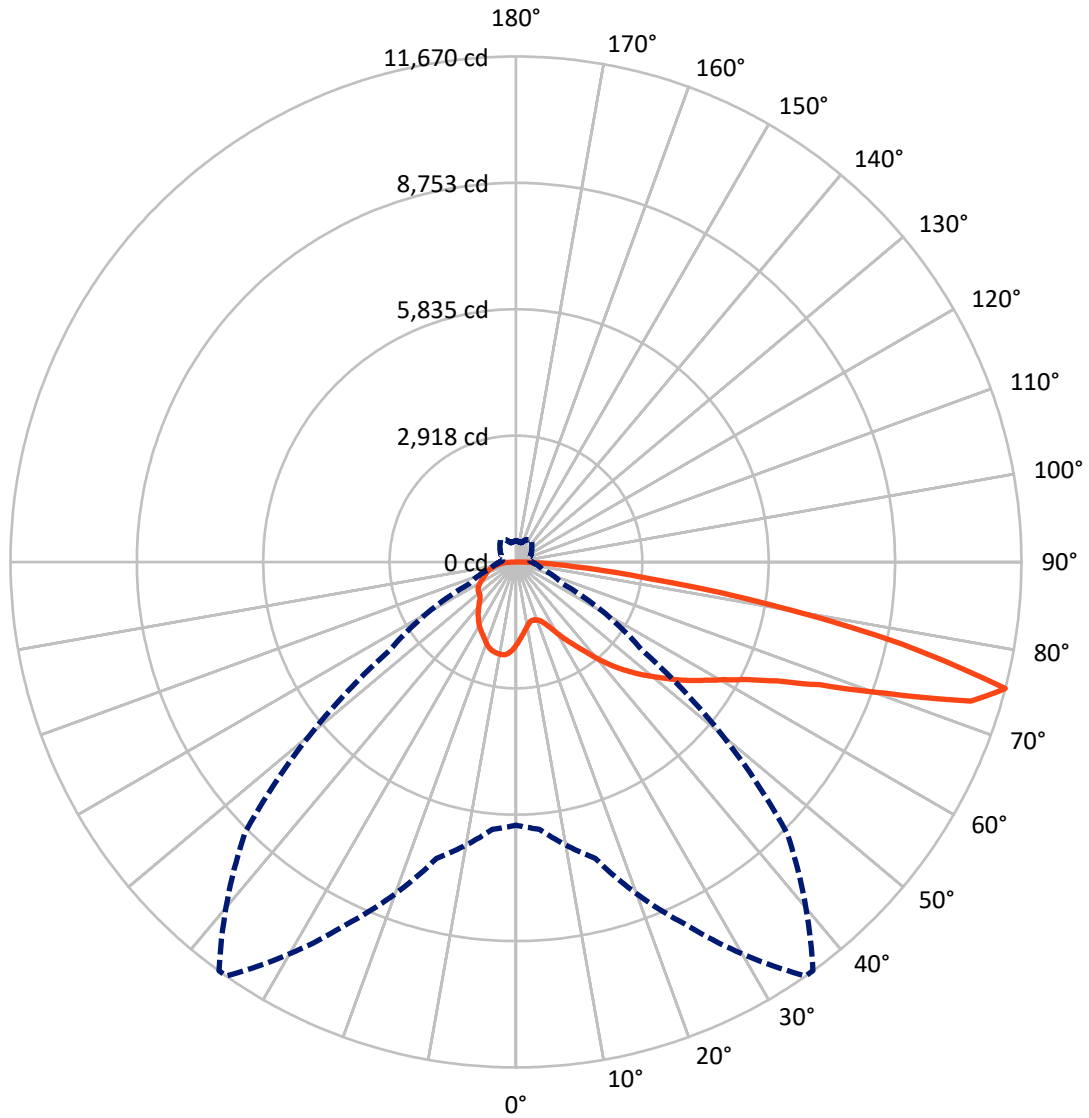
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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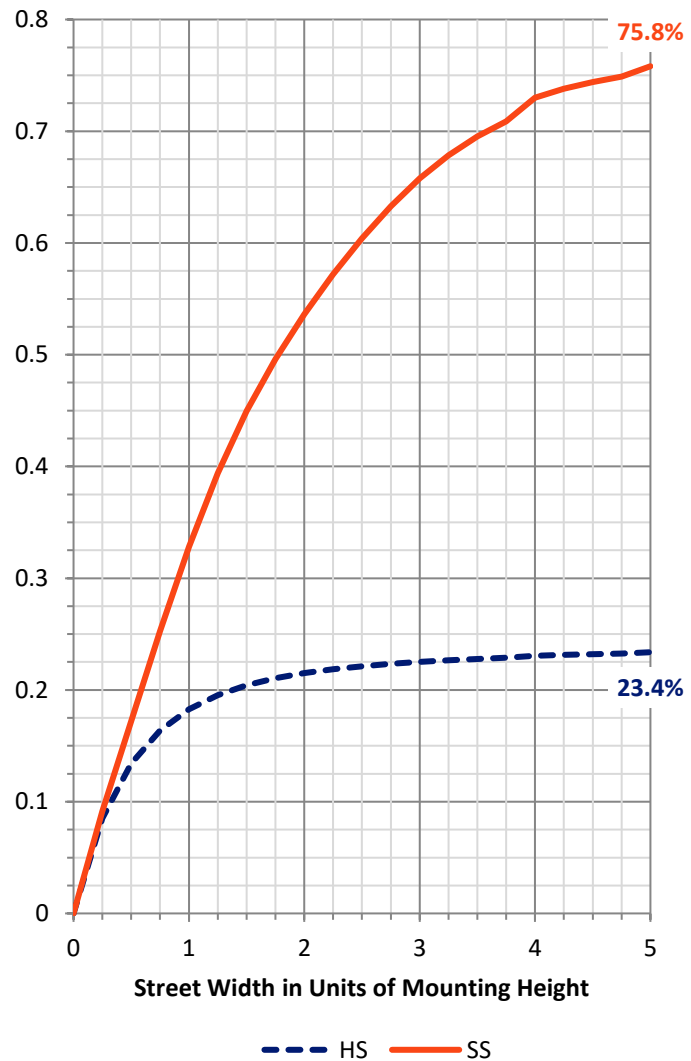
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3407.3	0.0	3407.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10910.7	0.0	10910.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	14318.0	0.0	14318.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	1.3
10°-20°	521.1	3.6
20°-30°	875.0	6.1
30°-40°	1359.9	9.5
40°-50°	2018.4	14.1
50°-60°	2786.5	19.5
60°-70°	3380.7	23.6
70°-80°	2793.9	19.5
80°-90°	401.9	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°	14318.0	100.0
0°-180°	14318.0	100.0



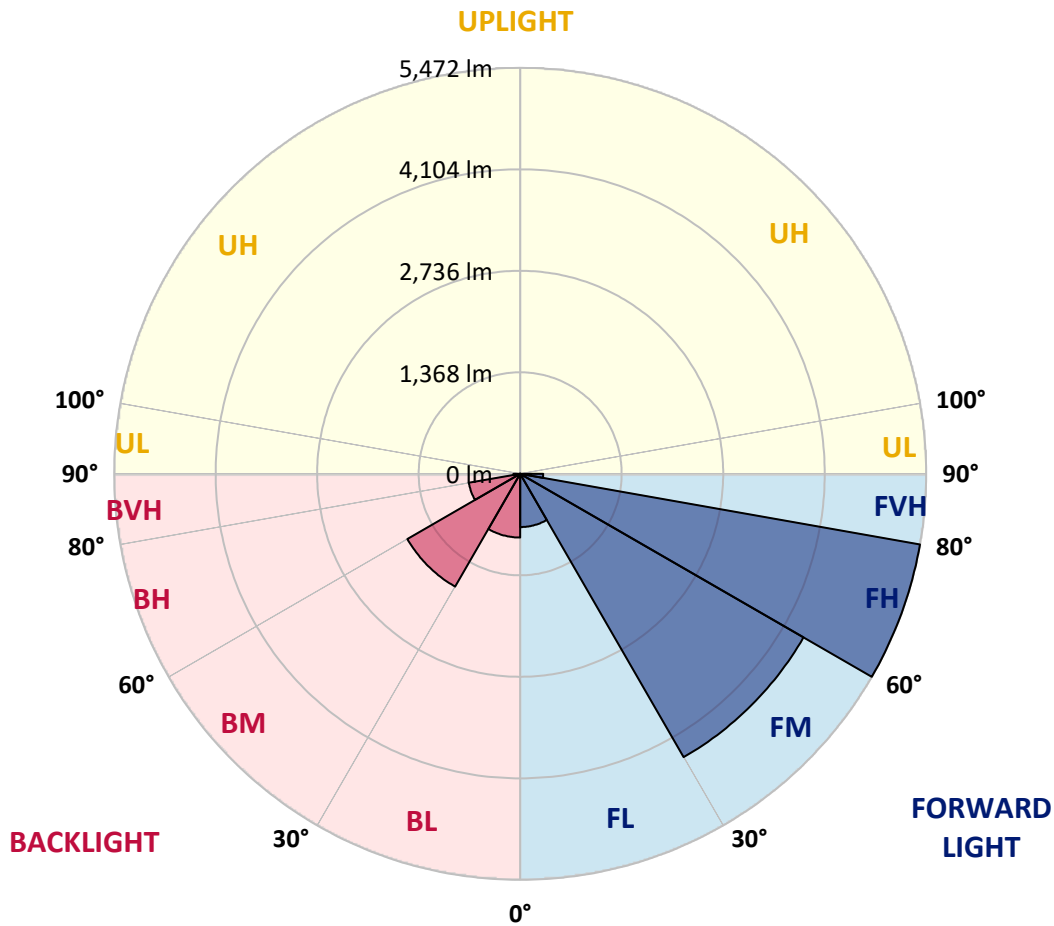
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.0	5.0			
FM (30°-60°)	4409.2	30.8			
FH (60°-80°)	5472.1	38.2			G3/7500
FVH (80°-90°)	311.4	2.2			G3/500
BL (0°-30°)	858.7	6.0	B2/1000		
BM (30°-60°)	1755.7	12.3	B2/2500		
BH (60°-80°)	702.5	4.9	B2/1000		G2/1000
BVH (80°-90°)	90.5	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°	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0
2.5°	1759.4	1770.2	1774.8	1772.5	1784.1	1782.6	1798.8	1819.0	1846.8	1873.9	1913.4
5°	1623.9	1635.5	1645.6	1654.9	1677.3	1684.3	1709.8	1748.5	1799.6	1851.5	1916.5
7.5°	1497.7	1507.8	1523.3	1540.3	1578.2	1585.2	1627.8	1688.1	1759.4	1835.2	1925.0
10°	1394.8	1404.9	1421.1	1440.5	1487.7	1496.2	1550.4	1630.9	1723.8	1819.7	1934.3
12.5°	1350.7	1353.8	1363.1	1382.4	1423.4	1428.8	1488.4	1580.6	1688.9	1808.1	1948.2
15°	1348.4	1354.5	1355.3	1365.4	1399.4	1401.8	1456.7	1548.0	1667.2	1805.8	1969.1
17.5°	1371.6	1376.2	1369.2	1375.4	1404.1	1408.0	1451.3	1532.6	1660.3	1815.9	2004.7
20°	1433.5	1437.4	1416.5	1408.0	1428.8	1431.9	1474.5	1542.6	1667.2	1836.8	2053.5
22.5°	1565.1	1567.4	1516.3	1481.5	1483.0	1484.6	1521.7	1583.7	1694.3	1874.7	2115.4
25°	1770.2	1768.6	1687.4	1620.0	1581.3	1572.8	1597.6	1650.2	1740.0	1925.0	2195.1
27.5°	2010.1	1998.5	1917.3	1816.6	1732.3	1719.9	1714.5	1736.9	1805.0	1991.6	2292.7
30°	2281.1	2270.2	2182.7	2051.2	1934.3	1914.2	1863.1	1851.5	1901.8	2082.1	2428.1
32.5°	2578.3	2571.3	2466.8	2307.4	2151.0	2127.8	2041.9	2010.9	2050.4	2219.1	2617.0
35°	2827.5	2821.3	2734.6	2570.5	2379.4	2350.7	2263.2	2228.4	2248.5	2394.8	2863.9
37.5°	3052.8	3049.7	2975.4	2846.1	2648.7	2613.9	2515.6	2504.0	2500.1	2626.3	3163.4
40°	3261.7	3254.0	3176.6	3108.5	2962.2	2930.5	2843.8	2833.7	2804.3	2911.1	3502.5
42.5°	3493.2	3473.0	3360.8	3329.1	3289.6	3263.3	3211.4	3213.0	3148.0	3232.3	3861.6
45°	3682.0	3670.4	3555.1	3536.5	3579.1	3568.3	3613.1	3624.8	3498.6	3569.0	4234.7
47.5°	3884.8	3874.0	3776.5	3763.3	3878.6	3881.7	4040.4	4044.3	3840.7	3918.9	4608.5
50°	4134.8	4119.4	4022.6	4038.9	4168.1	4179.7	4470.0	4443.7	4155.7	4274.2	4979.3
52.5°	4299.7	4309.0	4288.1	4314.4	4490.9	4501.7	4892.6	4825.3	4467.7	4624.8	5343.1
55°	4421.2	4439.8	4504.8	4565.2	4831.5	4842.3	5291.2	5188.3	4726.2	4949.9	5685.2
57.5°	4577.6	4551.3	4672.8	4790.4	5155.0	5183.6	5679.0	5538.1	4955.3	5230.1	5919.7
60°	4802.0	4783.5	4877.9	5052.1	5517.2	5562.9	6089.3	5853.2	5123.3	5452.2	5965.4
62.5°	5257.2	5210.7	5225.4	5379.5	5973.9	6034.3	6552.1	6128.0	5206.9	5538.9	5720.8
65°	5937.5	5857.8	5783.5	5890.3	6617.1	6676.7	7074.6	6343.9	5175.9	5371.0	5071.4
67.5°	6794.4	6715.4	6624.1	6724.7	7564.5	7611.8	7719.3	6465.4	4932.1	4723.9	3923.5
70°	7501.1	7471.7	7580.8	7994.9	9077.8	9079.3	8546.0	6364.8	4264.1	3349.2	2270.2
72.5°	7407.4	7389.6	7964.7	9244.9	10985.0	10943.9	9328.5	5603.2	2872.4	1510.9	850.7
75°	6076.9	6192.2	7083.1	9222.5	11670.0	11664.5	8849.4	3562.1	1188.1	626.2	439.6
77.5°	3258.6	3441.3	4598.5	6809.1	9110.3	9247.3	6221.6	1246.2	510.1	400.9	304.2
80°	1062.7	1222.2	1832.9	3466.9	5919.7	5894.2	2666.5	489.2	349.1	284.1	210.5
82.5°	451.3	469.8	818.9	1637.1	3038.0	2990.8	849.1	281.0	245.4	194.3	130.0
85°	176.5	197.4	361.5	757.0	1315.8	1287.2	306.5	139.3	157.1	126.9	77.4
87.5°	58.1	70.4	129.3	259.3	409.5	394.8	75.1	48.0	68.1	58.1	27.9
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°	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0
2.5°	1924.2	1936.6	1951.3	1973.0	1991.6	2007.0	2023.3	2033.4	2037.2	2048.8	2048.1
5°	1938.2	1965.2	2001.6	2037.2	2072.1	2093.0	2111.5	2120.8	2129.3	2135.5	2137.1
7.5°	1961.4	1996.2	2053.5	2099.9	2129.3	2146.4	2158.8	2155.7	2158.8	2160.3	2162.6
10°	1981.5	2030.3	2098.4	2142.5	2164.9	2165.7	2162.6	2151.8	2146.4	2147.1	2148.7
12.5°	2005.5	2059.7	2133.2	2170.4	2176.6	2159.5	2146.4	2127.8	2120.8	2117.7	2116.2
15°	2038.0	2099.9	2171.1	2185.1	2169.6	2147.9	2125.5	2095.3	2079.8	2067.4	2071.3
17.5°	2077.5	2145.6	2200.6	2190.5	2157.2	2121.6	2085.2	2039.6	2007.8	1994.7	1995.4
20°	2132.4	2193.6	2223.0	2178.9	2128.6	2074.4	2012.5	1956.7	1927.3	1914.2	1912.6
22.5°	2199.0	2257.8	2244.7	2158.8	2087.5	2000.9	1923.5	1882.4	1867.7	1858.4	1860.0
25°	2278.7	2329.0	2260.2	2129.3	2020.2	1903.3	1843.7	1830.6	1823.6	1816.6	1816.6
27.5°	2382.4	2409.5	2271.8	2086.0	1914.9	1799.6	1777.9	1780.3	1777.9	1766.3	1768.6
30°	2519.4	2514.0	2282.6	2015.6	1794.2	1705.9	1707.5	1717.6	1719.1	1711.4	1715.2
32.5°	2699.8	2644.8	2288.0	1924.2	1678.9	1623.9	1625.5	1636.3	1644.0	1630.9	1637.1
35°	2918.1	2797.3	2279.5	1809.7	1589.8	1545.7	1534.1	1537.2	1539.5	1527.2	1535.7
37.5°	3172.7	2968.4	2241.6	1682.7	1516.3	1469.1	1444.3	1423.4	1411.0	1399.4	1407.2
40°	3452.1	3154.9	2171.9	1558.9	1434.3	1387.8	1350.7	1311.2	1269.4	1253.9	1260.9
42.5°	3744.7	3346.9	2087.5	1440.5	1339.8	1301.9	1262.4	1205.2	1142.5	1110.7	1114.6
45°	4048.1	3543.5	2004.7	1323.6	1243.1	1226.8	1181.2	1112.3	1044.2	1003.9	1000.8
47.5°	4345.4	3729.2	1883.2	1205.9	1152.5	1170.3	1134.7	1071.2	995.4	931.9	925.0
50°	4629.4	3903.4	1684.3	1086.7	1079.0	1153.3	1119.2	1027.9	941.2	859.9	853.0
52.5°	4911.2	4044.3	1429.6	978.4	1039.5	1148.7	1099.1	998.5	892.5	807.3	798.0
55°	5150.4	4117.0	1184.3	885.5	982.2	1109.2	1075.1	963.7	823.6	733.0	725.3
57.5°	5286.6	4058.2	979.9	794.1	903.3	1044.2	1034.1	889.4	741.5	671.9	662.6
60°	5227.8	3819.8	812.7	714.4	828.2	973.7	962.9	815.8	678.8	613.0	603.7
62.5°	4903.4	3365.5	680.4	644.8	760.1	901.7	891.7	759.3	630.8	567.4	557.3
65°	4250.2	2737.7	577.4	586.7	691.2	815.0	829.8	712.1	592.9	531.0	520.9
67.5°	3241.6	1983.1	496.9	536.4	623.9	729.9	772.5	678.0	561.2	502.3	493.1
70°	1847.6	1126.2	428.8	487.6	564.3	651.0	728.4	651.0	527.1	478.3	472.2
72.5°	700.5	517.0	370.8	438.9	507.0	584.4	679.6	608.4	487.6	451.3	445.1
75°	373.9	315.0	311.9	381.6	441.2	519.4	618.4	566.6	458.2	476.8	492.3
77.5°	254.7	222.9	260.8	326.6	369.2	447.4	553.4	503.1	397.1	395.5	364.6
80°	176.5	157.9	212.1	263.2	285.6	376.2	483.0	431.9	323.5	301.9	288.7
82.5°	106.0	102.9	158.7	196.6	202.0	290.3	400.2	362.2	264.7	230.7	232.2
85°	58.1	61.1	101.4	115.3	117.7	202.8	313.5	280.2	203.6	171.1	172.6
87.5°	16.3	20.9	37.2	45.7	56.5	105.3	186.5	166.4	102.2	71.2	71.2
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)