

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: P962391

Luminaire Tested: **NAV-SB2C-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-727-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14114.2 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

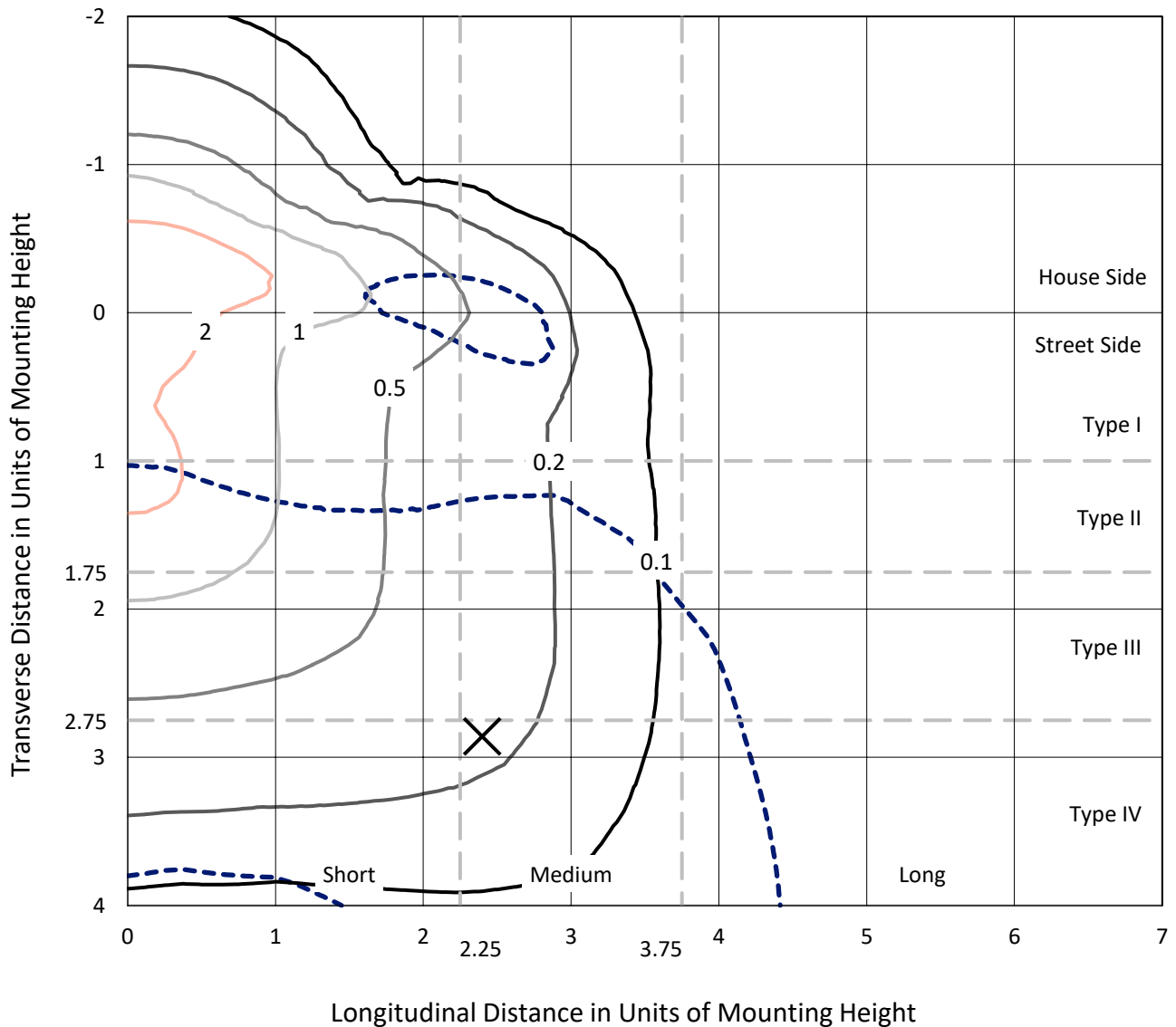
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

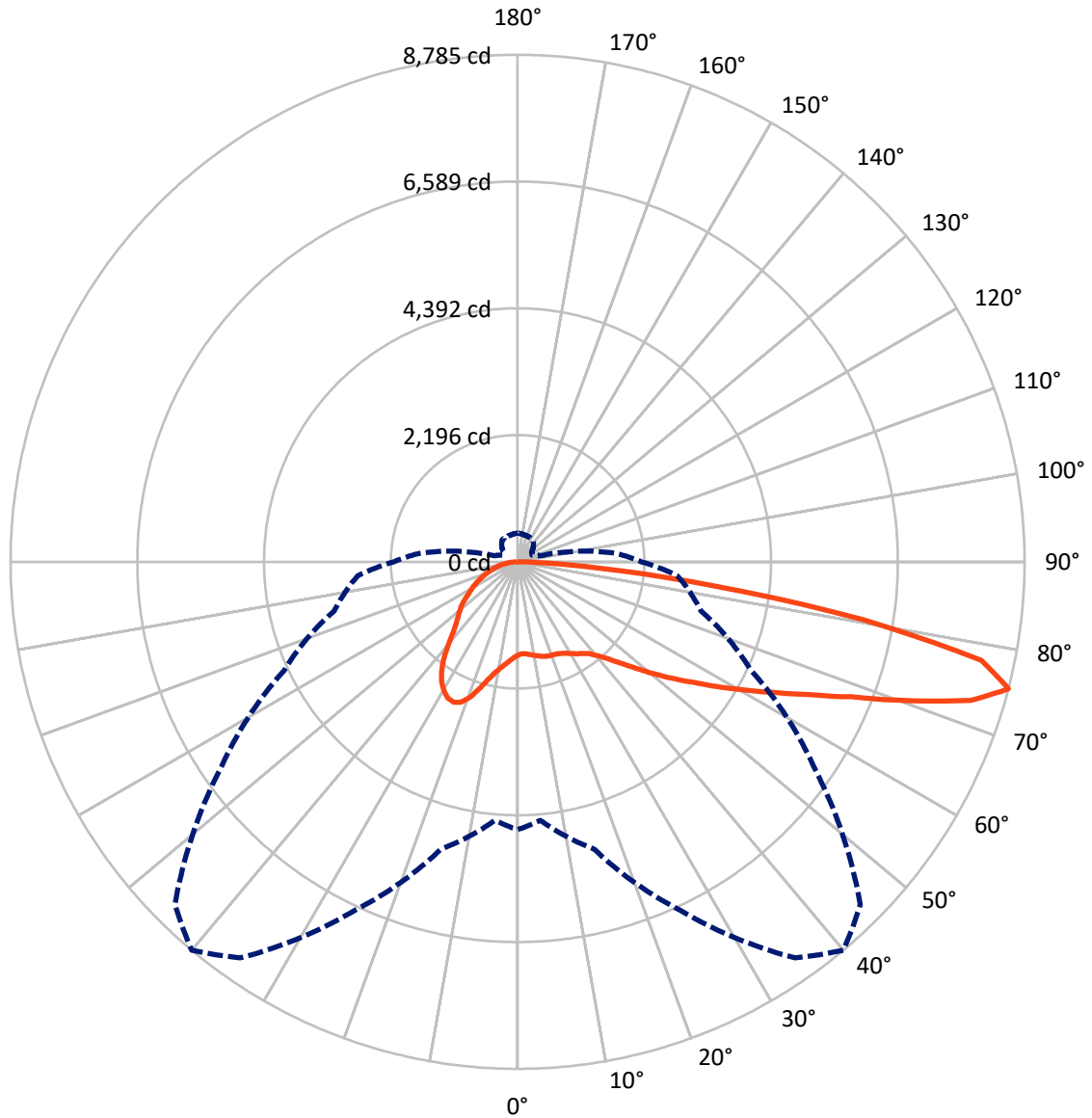
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4373.1	0.0	4373.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	9741.2	0.0	9741.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	14114.2	0.0	14114.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	1.1
10°-20°	540.9	3.8
20°-30°	987.7	7.0
30°-40°	1400.8	9.9
40°-50°	1891.5	13.4
50°-60°	2544.5	18.0
60°-70°	3229.6	22.9
70°-80°	2931.0	20.8
80°-90°	427.2	3.0
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°	14114.2	100.0
0°-180°	14114.2	100.0

Coefficient of Utilization

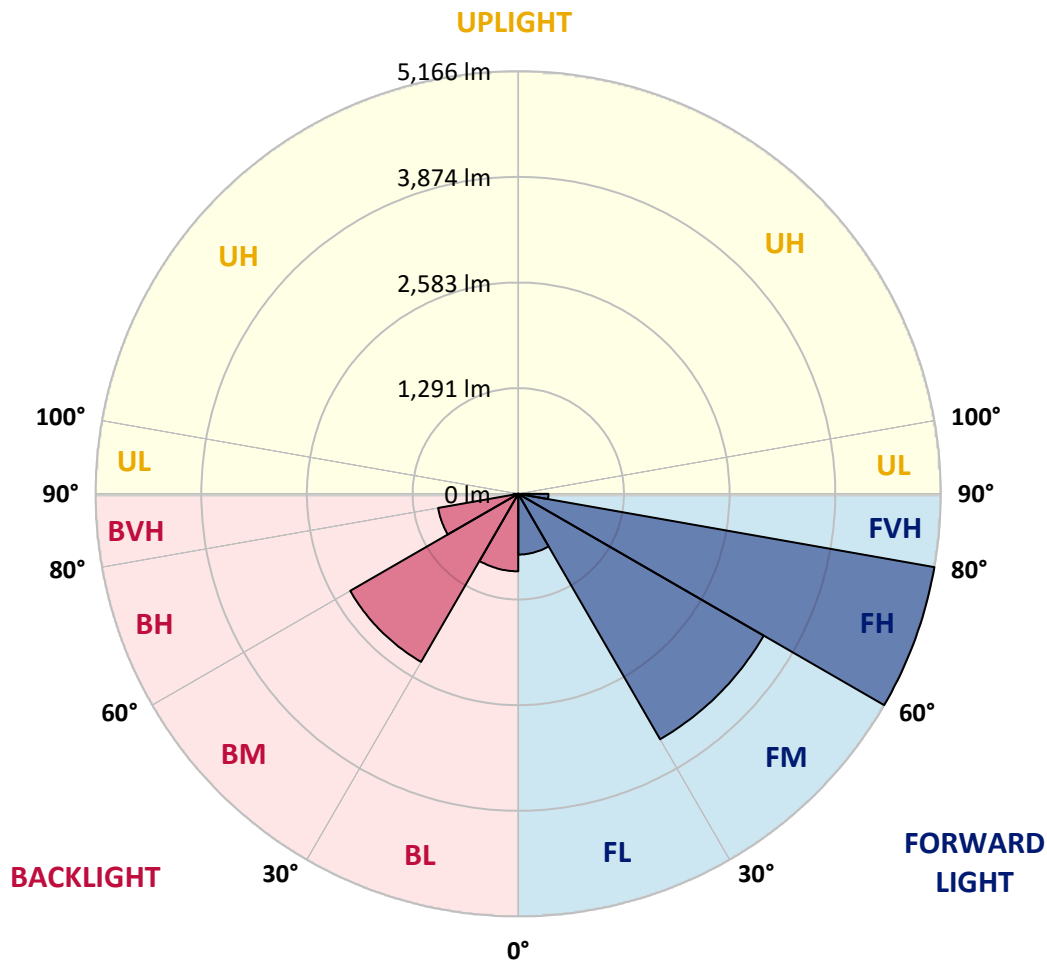


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.4	5.3			
FM (30°-60°)	3464.7	24.5			
FH (60°-80°)	5165.6	36.6			G3/7500
FVH (80°-90°)	368.4	2.6			G3/500
BL (0°-30°)	947.2	6.7	B2/1000		
BM (30°-60°)	2372.0	16.8	B2/2500		
BH (60°-80°)	995.0	7.0	B2/1000		G2/1000
BVH (80°-90°)	58.8	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1589.3	1598.3	1596.0	1593.1	1593.1	1593.1	1593.1	1598.3	1603.5	1608.7	1616.9
5°	1605.8	1614.7	1610.3	1606.5	1603.5	1602.8	1600.5	1599.7	1602.8	1609.5	1620.7
7.5°	1637.9	1647.0	1640.2	1633.4	1627.5	1624.4	1621.4	1616.9	1614.7	1618.5	1634.2
10°	1673.8	1682.8	1674.6	1662.7	1652.9	1649.1	1646.2	1641.6	1638.7	1640.9	1658.1
12.5°	1709.8	1718.8	1707.5	1691.0	1678.3	1676.1	1672.4	1670.9	1670.1	1669.4	1686.6
15°	1743.5	1751.0	1736.8	1717.3	1703.9	1700.1	1696.4	1698.5	1702.3	1706.8	1726.3
17.5°	1769.7	1777.1	1756.2	1730.8	1718.0	1716.6	1714.3	1721.8	1732.2	1743.5	1767.4
20°	1793.6	1801.1	1774.2	1739.7	1724.8	1724.8	1725.5	1741.3	1756.2	1772.7	1805.6
22.5°	1827.4	1833.3	1800.4	1753.3	1731.5	1733.0	1739.0	1754.7	1773.5	1795.9	1841.5
25°	1877.5	1882.0	1841.5	1778.7	1754.0	1758.5	1763.7	1771.2	1789.1	1815.4	1876.8
27.5°	1958.4	1962.1	1909.0	1823.6	1786.2	1793.6	1801.1	1795.9	1804.1	1826.6	1905.2
30°	2072.1	2074.4	2007.0	1894.0	1840.8	1844.6	1846.0	1824.3	1808.6	1826.6	1925.4
32.5°	2206.8	2206.1	2126.1	1979.3	1902.9	1899.2	1886.5	1843.8	1807.1	1822.9	1943.4
35°	2415.7	2407.5	2304.2	2099.1	1973.3	1950.1	1920.1	1865.5	1814.6	1819.1	1959.1
37.5°	2761.6	2736.1	2593.1	2295.2	2078.1	2018.9	1974.8	1900.7	1831.1	1817.6	1977.8
40°	3151.6	3119.4	2962.2	2563.9	2235.3	2140.2	2069.2	1950.9	1858.0	1824.3	2005.5
42.5°	3614.3	3568.5	3399.4	2880.7	2434.5	2296.7	2189.7	2014.5	1897.7	1846.0	2042.9
45°	4182.4	4121.8	3882.3	3237.7	2685.2	2501.8	2358.8	2111.1	1958.4	1887.9	2099.1
47.5°	4756.6	4771.6	4431.0	3646.4	2986.1	2754.9	2570.7	2256.3	2046.7	1955.4	2189.7
50°	5366.7	5377.2	4976.7	4099.4	3327.6	3040.9	2808.7	2418.7	2169.4	2051.1	2325.1
52.5°	5842.8	5844.3	5472.3	4573.2	3683.1	3355.2	3065.6	2604.4	2311.7	2178.4	2505.6
55°	6140.8	6137.0	5819.6	5021.6	4091.9	3685.4	3350.0	2815.5	2485.3	2328.2	2732.3
57.5°	6357.2	6345.9	6059.2	5407.2	4527.5	4075.4	3671.9	3055.0	2690.4	2506.3	3031.1
60°	6439.5	6432.7	6221.6	5740.3	4985.7	4506.6	4043.2	3323.0	2923.3	2716.7	3415.1
62.5°	6470.9	6483.6	6381.0	6062.9	5476.1	4984.2	4451.2	3643.5	3185.3	2954.8	3820.1
65°	6581.7	6604.9	6584.0	6485.2	6030.0	5543.4	4992.5	4024.5	3471.3	3210.0	4243.1
67.5°	6801.1	6824.2	6833.3	6990.4	6706.7	6240.3	5667.6	4499.1	3805.9	3475.0	4561.2
70°	6795.7	6789.1	6947.8	7392.4	7554.1	7205.2	6577.9	5083.0	4204.9	3695.1	4601.6
72.5°	6185.7	6131.8	6506.8	7387.9	8259.3	8212.9	7689.7	5836.0	4549.3	3722.1	3993.0
75°	4640.6	4496.9	5159.3	6658.1	8376.8	8784.9	8396.3	6303.2	4467.7	3288.6	2778.8
77.5°	1984.5	1840.1	2620.8	4928.8	7497.3	8212.2	7748.0	5499.2	3566.4	2174.6	1364.7
80°	519.6	518.8	792.0	2234.6	5098.8	6064.4	5320.3	3551.3	2037.7	777.1	376.6
82.5°	214.8	209.6	291.2	869.1	2491.4	3403.1	2777.3	1584.0	735.8	210.3	125.0
85°	80.1	79.3	141.4	300.2	878.8	1403.6	1015.9	405.0	183.4	102.6	56.2
87.5°	22.4	21.7	30.6	104.0	214.1	324.9	173.6	66.6	51.7	40.4	16.5
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°	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0	1614.0
2.5°	1619.2	1623.0	1629.7	1635.0	1641.6	1649.1	1659.7	1666.3	1673.1	1677.6	1674.6
5°	1626.0	1634.2	1651.4	1668.6	1688.9	1707.5	1729.3	1745.0	1757.7	1761.5	1763.0
7.5°	1640.9	1654.5	1683.6	1712.8	1745.0	1775.7	1807.1	1834.0	1855.8	1864.1	1864.8
10°	1667.2	1685.1	1726.3	1767.4	1810.2	1857.3	1897.7	1936.6	1967.3	1980.1	1980.8
12.5°	1700.1	1722.5	1776.4	1833.3	1892.5	1957.5	2010.0	2057.9	2096.1	2113.3	2113.3
15°	1742.7	1771.9	1840.8	1917.2	2004.0	2094.6	2161.2	2214.4	2257.0	2278.0	2276.5
17.5°	1789.1	1828.1	1914.9	2030.2	2154.4	2273.4	2351.4	2390.3	2434.5	2454.7	2454.0
20°	1834.0	1882.0	2006.2	2173.9	2339.4	2465.8	2528.8	2539.2	2542.2	2544.5	2550.5
22.5°	1880.5	1944.8	2120.8	2355.1	2532.5	2620.1	2629.1	2584.1	2521.3	2492.1	2500.3
25°	1931.4	2016.7	2270.5	2555.0	2698.7	2709.2	2640.3	2531.0	2412.0	2357.3	2365.6
27.5°	1980.8	2099.8	2450.2	2745.9	2818.4	2726.4	2578.2	2423.2	2279.5	2221.9	2228.6
30°	2030.2	2194.9	2648.6	2912.8	2873.2	2683.8	2480.1	2307.2	2162.8	2102.1	2108.8
32.5°	2080.3	2305.7	2876.9	3033.3	2863.4	2593.1	2358.1	2176.9	2049.7	1986.0	1994.2
35°	2137.2	2442.0	3093.2	3099.2	2798.2	2459.9	2197.2	2021.2	1910.4	1859.6	1870.7
37.5°	2211.3	2614.9	3284.1	3115.7	2684.5	2264.5	1997.3	1837.1	1745.8	1722.5	1739.0
40°	2303.5	2823.0	3430.1	3089.5	2516.1	2027.2	1778.7	1650.7	1599.0	1604.2	1622.3
42.5°	2423.2	3055.8	3532.7	3022.1	2281.8	1782.4	1587.0	1530.1	1554.8	1575.8	1595.3
45°	2578.9	3297.6	3596.3	2907.5	2016.7	1575.0	1473.9	1487.5	1506.1	1508.4	1523.4
47.5°	2778.1	3542.4	3638.2	2734.6	1746.5	1429.1	1402.1	1405.2	1401.4	1385.7	1397.6
50°	3026.6	3780.4	3675.6	2505.6	1516.7	1337.7	1301.9	1291.3	1239.6	1188.8	1195.6
52.5°	3309.5	3999.0	3691.3	2221.1	1337.7	1261.4	1203.0	1137.1	1040.6	1024.8	1030.1
55°	3624.0	4201.2	3650.9	1871.5	1187.3	1163.4	1075.0	995.7	985.1	971.7	974.0
57.5°	3999.8	4419.0	3568.5	1481.4	1033.1	1048.8	962.7	971.7	952.9	932.0	928.2
60°	4410.8	4644.3	3424.1	1125.9	873.6	905.8	933.5	932.7	927.5	910.3	904.4
62.5°	4780.6	4792.6	3139.7	862.4	733.6	795.0	870.6	869.9	865.4	855.7	851.9
65°	5000.7	4770.0	2665.0	679.0	618.4	703.7	785.3	791.3	792.0	791.3	791.3
67.5°	4961.7	4507.3	2013.7	540.5	523.3	610.9	700.7	708.9	714.9	716.4	717.9
70°	4521.6	3930.2	1313.0	431.2	438.7	529.3	620.6	628.8	634.1	640.0	643.1
72.5°	3524.5	2889.6	751.6	348.8	364.6	458.9	541.2	550.9	554.0	565.2	569.7
75°	2147.8	1699.3	405.7	274.7	299.4	392.3	462.7	473.9	479.1	492.6	494.0
77.5°	1021.1	735.8	231.3	214.1	241.1	320.4	390.7	403.5	389.3	396.8	390.7
80°	345.1	273.3	146.0	163.2	184.2	250.0	312.9	325.6	295.7	294.2	291.2
82.5°	120.5	110.8	92.9	108.5	119.0	179.0	236.6	253.1	220.1	219.4	208.9
85°	47.2	44.9	51.7	59.1	71.1	110.1	155.7	163.9	135.5	109.3	107.8
87.5°	9.7	10.5	12.7	13.4	21.7	38.1	56.2	68.9	54.6	46.4	42.6
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)