

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: P965522

Luminaire Tested: **NAV-SB4A-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965522
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-SB4A-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15090 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

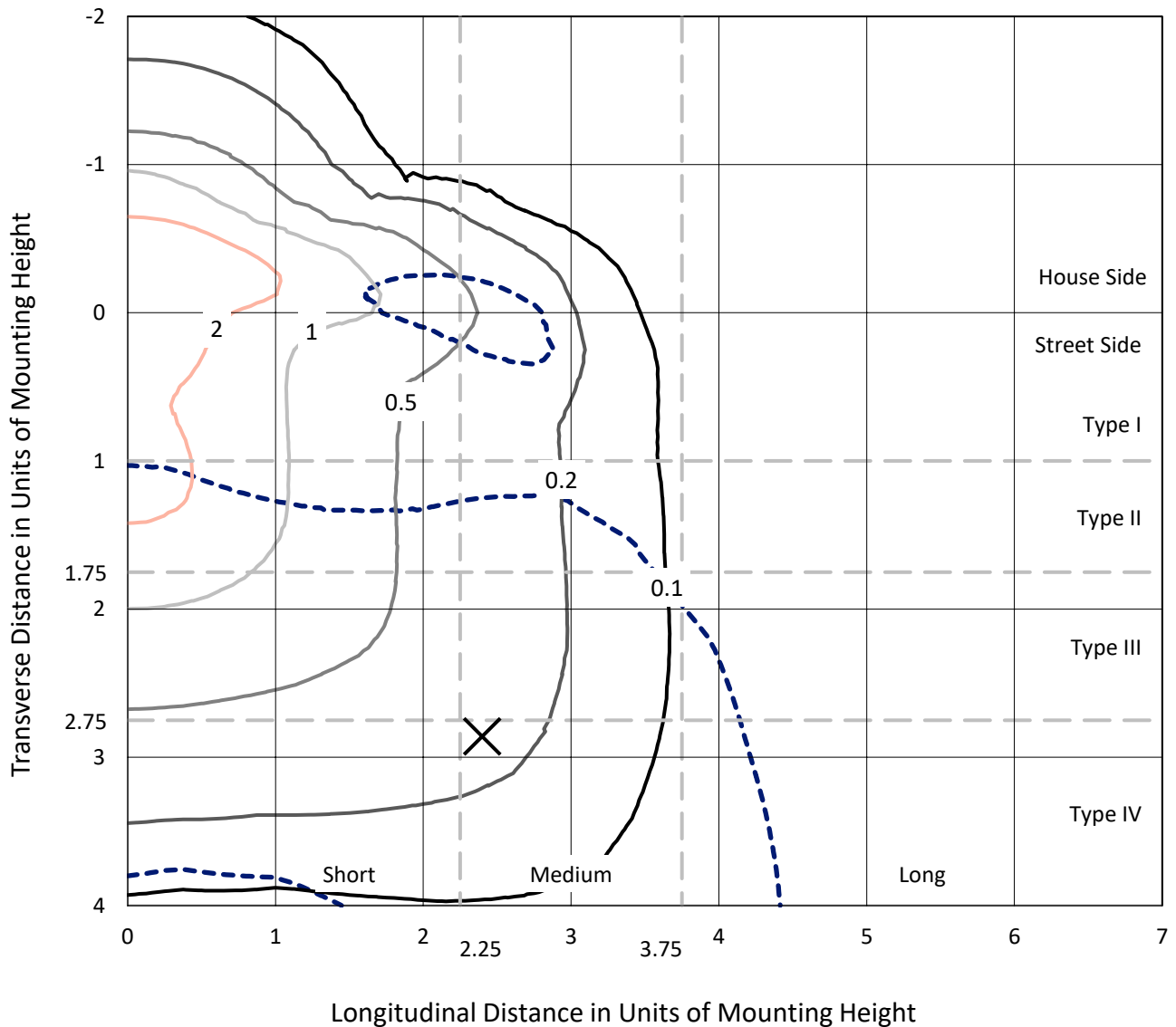
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

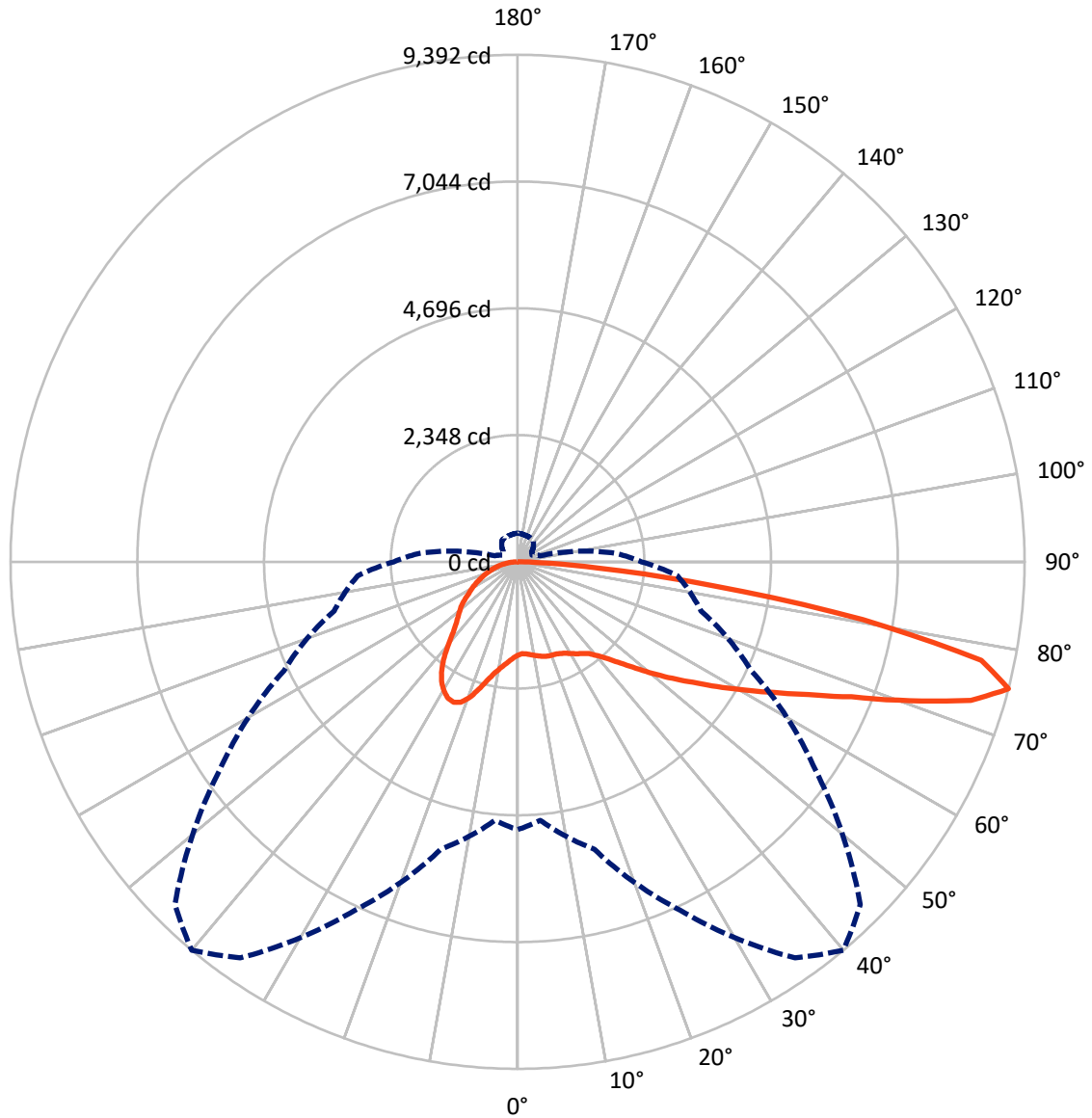
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	4675.4	0.0	4675.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	10414.6	0.0	10414.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	15090.0	0.0	15090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	1.1
10°-20°	578.3	3.8
20°-30°	1055.9	7.0
30°-40°	1497.6	9.9
40°-50°	2022.2	13.4
50°-60°	2720.4	18.0
60°-70°	3452.8	22.9
70°-80°	3133.7	20.8
80°-90°	456.8	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°	15090.0	100.0
0°-180°	15090.0	100.0

Coefficient of Utilization



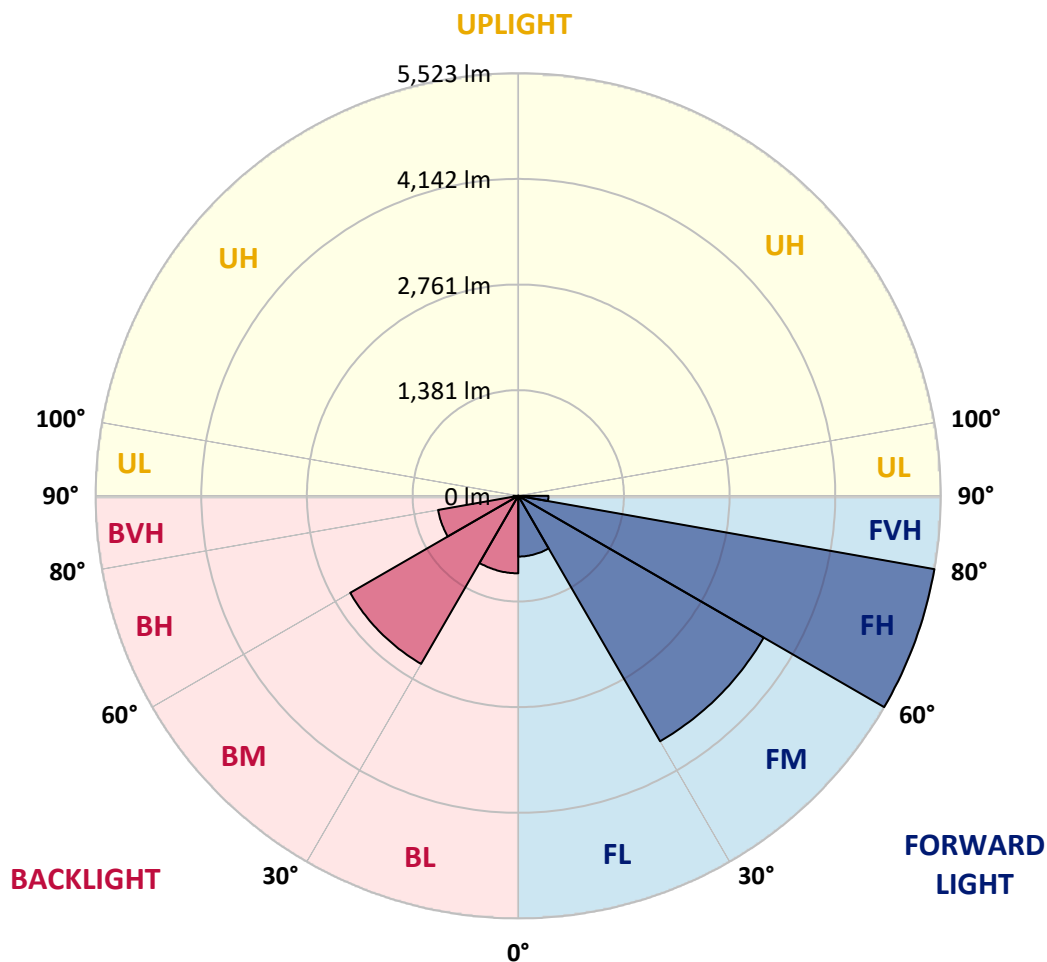
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.8	5.3			
FM (30°-60°)	3704.3	24.5			
FH (60°-80°)	5522.7	36.6			G3/7500
FVH (80°-90°)	393.9	2.6			G3/500
BL (0°-30°)	1012.7	6.7	B3/2500		
BM (30°-60°)	2536.0	16.8	B3/5000		
BH (60°-80°)	1063.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	62.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6
2.5°	1699.1	1708.8	1706.3	1703.1	1703.1	1704.0	1703.1	1708.8	1714.3	1720.0	1728.8
5°	1716.8	1726.4	1721.6	1717.6	1714.3	1713.6	1711.1	1710.3	1713.6	1720.8	1732.8
7.5°	1751.2	1760.7	1753.6	1746.4	1739.9	1736.8	1733.6	1728.8	1726.4	1730.4	1747.2
10°	1789.5	1799.2	1790.4	1777.6	1767.2	1763.2	1760.0	1755.2	1751.9	1754.4	1772.7
12.5°	1828.0	1837.6	1825.6	1808.0	1794.4	1792.0	1788.0	1786.4	1785.6	1784.8	1803.2
15°	1864.1	1872.1	1856.8	1836.0	1821.6	1817.6	1813.6	1816.0	1820.0	1824.8	1845.6
17.5°	1892.0	1900.0	1877.6	1850.4	1836.8	1835.3	1832.8	1840.8	1852.1	1864.1	1889.7
20°	1917.7	1925.7	1896.9	1860.1	1844.0	1844.0	1844.8	1861.6	1877.6	1895.2	1930.5
22.5°	1953.6	1960.1	1924.8	1874.4	1851.3	1852.8	1859.2	1876.1	1896.0	1920.0	1968.9
25°	2007.3	2012.1	1968.9	1901.7	1875.2	1880.1	1885.6	1893.7	1912.9	1940.8	2006.5
27.5°	2093.8	2097.8	2040.9	1949.7	1909.7	1917.7	1925.7	1920.0	1928.8	1952.8	2036.9
30°	2215.4	2217.8	2145.7	2024.9	1968.1	1972.1	1973.6	1950.5	1933.7	1952.8	2058.5
32.5°	2359.4	2358.6	2273.0	2116.1	2034.5	2030.5	2016.9	1971.3	1932.0	1948.8	2077.7
35°	2582.8	2574.0	2463.5	2244.2	2109.8	2085.0	2052.9	1994.4	1940.0	1944.8	2094.5
37.5°	2952.5	2925.4	2772.4	2453.8	2221.8	2158.5	2111.3	2032.1	1957.6	1943.3	2114.6
40°	3369.5	3335.0	3167.0	2741.3	2389.9	2288.2	2212.2	2085.8	1986.4	1950.5	2144.2
42.5°	3864.1	3815.3	3634.4	3079.8	2602.8	2455.5	2341.0	2153.7	2028.9	1973.6	2184.2
45°	4471.6	4406.8	4150.6	3461.5	2870.9	2674.8	2521.9	2257.0	2093.8	2018.5	2244.2
47.5°	5085.4	5101.4	4737.3	3898.5	3192.7	2945.3	2748.4	2412.2	2188.2	2090.5	2341.0
50°	5737.7	5748.9	5320.8	4382.8	3557.6	3251.1	3002.9	2586.0	2319.5	2193.0	2485.9
52.5°	6246.8	6248.4	5850.6	4889.4	3937.7	3587.2	3277.4	2784.4	2471.5	2329.0	2678.8
55°	6565.3	6561.3	6222.0	5368.7	4374.7	3940.2	3581.6	3010.1	2657.2	2489.1	2921.2
57.5°	6796.7	6784.6	6478.1	5781.0	4840.6	4357.2	3925.7	3266.3	2876.5	2679.6	3240.6
60°	6884.6	6877.4	6651.7	6137.1	5330.4	4818.1	4322.7	3552.8	3125.4	2904.5	3651.3
62.5°	6918.2	6931.9	6822.2	6482.1	5854.6	5328.8	4758.9	3895.3	3405.6	3159.0	4084.2
65°	7036.7	7061.5	7039.1	6933.5	6446.8	5926.7	5337.6	4302.7	3711.2	3431.9	4536.4
67.5°	7271.2	7296.1	7305.7	7473.7	7170.4	6671.7	6059.5	4810.1	4069.0	3715.2	4876.5
70°	7265.6	7258.4	7428.1	7903.5	8076.4	7703.4	7032.7	5434.4	4495.6	3950.6	4919.8
72.5°	6613.3	6555.7	6956.7	7898.8	8830.4	8780.7	8221.2	6239.6	4863.7	3979.4	4269.1
75°	4961.4	4807.8	5516.0	7118.3	8955.9	9392.2	8976.7	6739.0	4776.5	3516.0	2971.0
77.5°	2121.8	1967.3	2802.0	5269.5	8015.6	8779.9	8283.6	5879.4	3812.9	2325.0	1459.1
80°	555.4	554.6	846.8	2389.1	5451.3	6483.6	5688.1	3796.9	2178.5	830.8	402.6
82.5°	229.7	224.1	311.3	929.2	2663.6	3638.4	2969.3	1693.5	786.8	224.9	133.7
85°	85.6	84.9	151.3	320.9	939.6	1500.7	1086.1	433.0	196.1	109.7	60.1
87.5°	24.0	23.2	32.8	111.2	228.9	347.4	185.7	71.2	55.2	43.3	17.6
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°	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6	1725.6
2.5°	1731.1	1735.2	1742.4	1747.9	1755.2	1763.2	1774.4	1781.6	1788.8	1793.6	1790.4
5°	1738.4	1747.2	1765.6	1784.0	1805.6	1825.6	1848.8	1865.6	1879.2	1883.2	1884.9
7.5°	1754.4	1768.7	1800.0	1831.3	1865.6	1898.4	1932.0	1960.8	1984.1	1992.9	1993.7
10°	1782.4	1801.6	1845.6	1889.7	1935.3	1985.7	2028.9	2070.5	2103.3	2116.9	2117.8
12.5°	1817.6	1841.6	1899.2	1960.1	2023.4	2092.9	2148.9	2200.2	2241.0	2259.4	2259.4
15°	1863.2	1894.4	1968.1	2049.7	2142.6	2239.4	2310.7	2367.4	2413.1	2435.5	2433.9
17.5°	1912.9	1954.5	2047.3	2170.5	2303.4	2430.7	2513.9	2555.5	2602.8	2624.4	2623.6
20°	1960.8	2012.1	2144.9	2324.2	2501.1	2636.4	2703.6	2714.8	2718.0	2720.5	2726.8
22.5°	2010.5	2079.3	2267.4	2517.9	2707.6	2801.2	2810.9	2762.8	2695.6	2664.4	2673.2
25°	2065.0	2156.2	2427.5	2731.6	2885.3	2896.4	2822.8	2706.0	2578.8	2520.3	2529.1
27.5°	2117.8	2245.0	2619.6	2935.7	3013.3	2914.9	2756.4	2590.8	2437.0	2375.4	2382.6
30°	2170.5	2346.6	2831.7	3114.2	3071.7	2869.3	2651.6	2466.7	2312.2	2247.4	2254.6
32.5°	2224.1	2465.1	3075.7	3243.0	3061.4	2772.4	2521.1	2327.5	2191.3	2123.4	2132.1
35°	2285.0	2610.8	3307.1	3313.5	2991.8	2629.9	2349.1	2161.0	2042.5	1988.1	2000.1
37.5°	2364.3	2795.7	3511.1	3331.0	2870.1	2421.0	2135.4	1964.1	1866.4	1841.6	1859.2
40°	2462.7	3018.1	3667.2	3303.1	2690.0	2167.4	1901.7	1764.7	1709.6	1715.1	1734.4
42.5°	2590.8	3267.1	3776.9	3231.0	2439.5	1905.7	1696.8	1635.9	1662.3	1684.8	1705.6
45°	2757.2	3525.6	3844.9	3108.6	2156.2	1684.0	1575.9	1590.3	1610.3	1612.7	1628.7
47.5°	2970.1	3787.3	3889.8	2923.7	1867.2	1527.9	1499.1	1502.2	1498.2	1481.4	1494.2
50°	3235.8	4041.8	3929.7	2678.8	1621.6	1430.3	1391.8	1380.6	1325.4	1271.0	1278.2
52.5°	3538.4	4275.5	3946.6	2374.6	1430.3	1348.6	1286.2	1215.8	1112.5	1095.7	1101.3
55°	3874.5	4491.5	3903.3	2000.9	1269.4	1243.7	1149.3	1064.5	1053.3	1038.8	1041.3
57.5°	4276.3	4724.5	3815.3	1583.9	1104.5	1121.2	1029.3	1038.8	1018.8	996.4	992.4
60°	4715.7	4965.4	3660.8	1203.8	934.0	968.4	998.0	997.2	991.7	973.2	966.8
62.5°	5111.1	5123.9	3356.7	922.0	784.3	849.9	930.8	930.0	925.2	914.8	910.8
65°	5346.4	5099.9	2849.3	725.9	661.1	752.3	839.6	845.9	846.8	845.9	845.9
67.5°	5304.8	4818.9	2152.9	577.9	559.4	653.1	749.2	758.0	764.3	766.0	767.5
70°	4834.1	4201.9	1403.8	461.0	469.0	565.9	663.5	672.3	677.9	684.3	687.5
72.5°	3768.1	3089.4	803.6	373.0	389.8	490.7	578.6	589.1	592.2	604.2	609.1
75°	2296.2	1816.8	433.8	293.8	320.1	419.4	494.7	506.7	512.2	526.6	528.3
77.5°	1091.7	786.8	247.3	228.9	257.7	342.6	417.8	431.4	416.2	424.1	417.8
80°	369.0	292.1	156.1	174.5	196.9	267.3	334.6	348.2	316.1	314.6	311.3
82.5°	128.8	118.5	99.2	116.0	127.3	191.3	252.9	270.5	235.3	234.5	223.3
85°	50.4	48.1	55.2	63.2	76.1	117.7	166.5	175.3	144.8	116.8	115.2
87.5°	10.5	11.2	13.6	14.5	23.2	40.8	60.1	73.6	58.4	49.6	45.6
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)