

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: P962453

Luminaire Tested: **NAV-SB2C-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962453
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-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 15217.1 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - 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



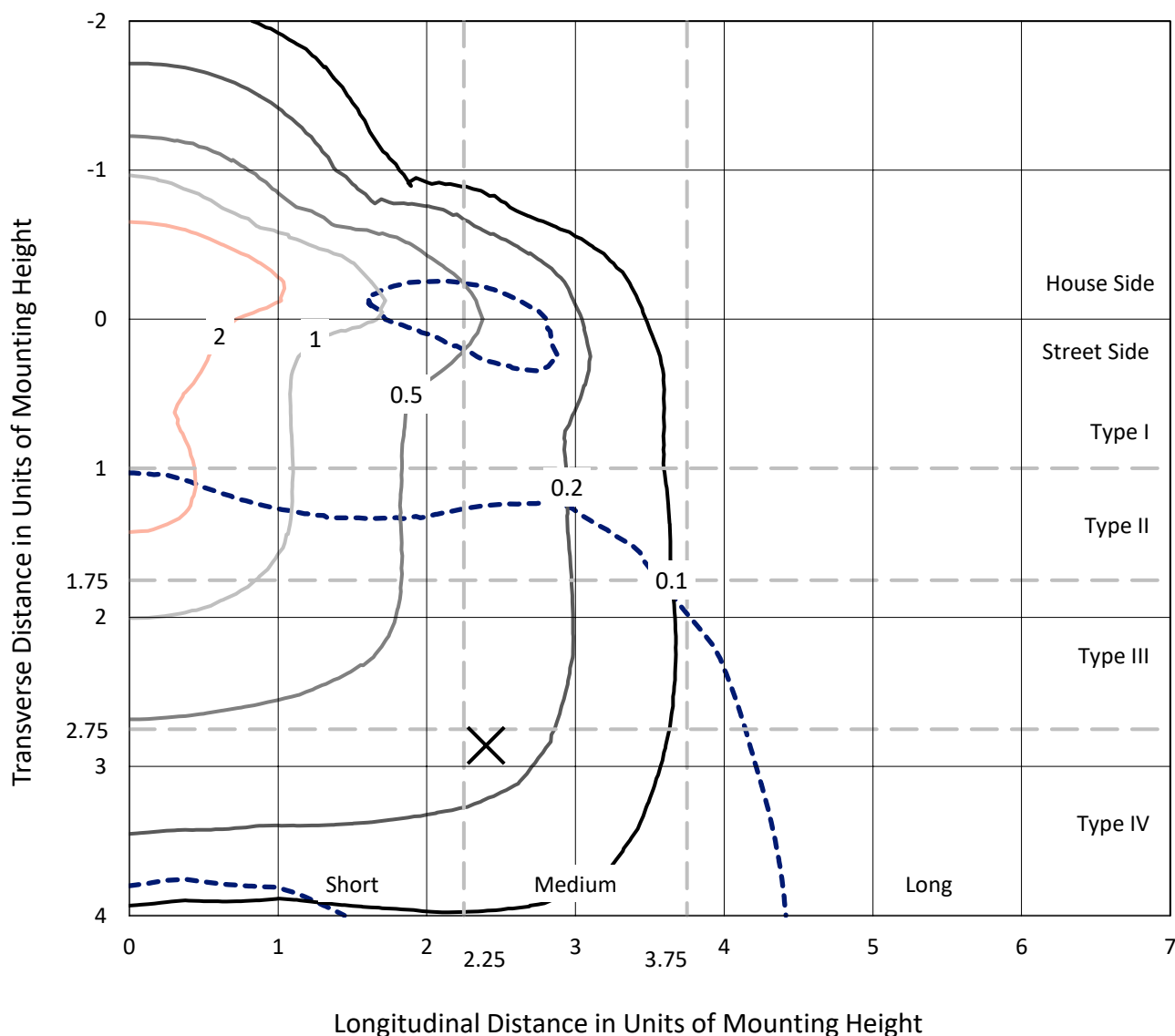
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

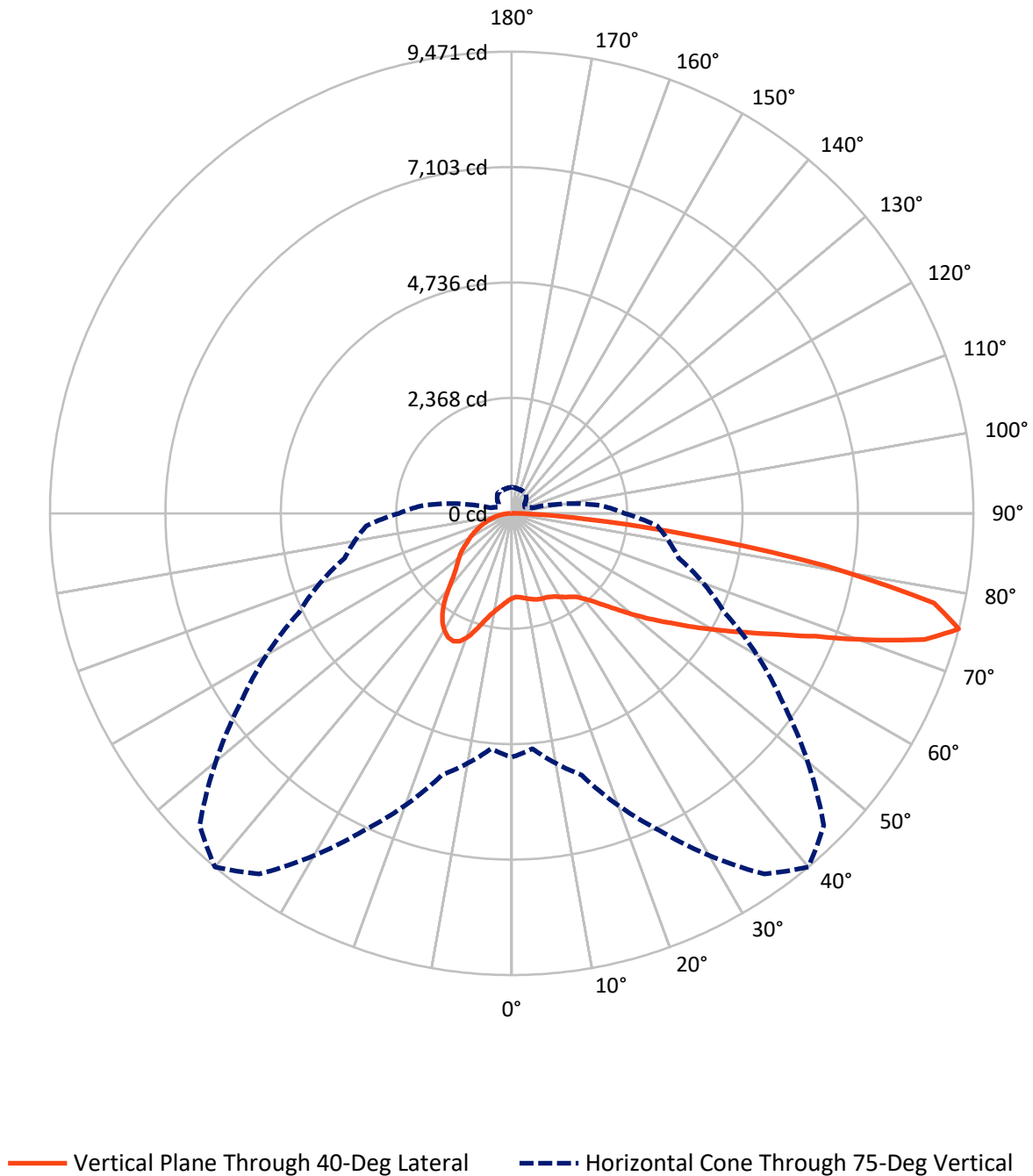
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4714.8	0.0	4714.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	10502.4	0.0	10502.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	15217.1	0.0	15217.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	1.1
10°-20°	583.2	3.8
20°-30°	1064.8	7.0
30°-40°	1510.2	9.9
40°-50°	2039.3	13.4
50°-60°	2743.4	18.0
60°-70°	3481.9	22.9
70°-80°	3160.1	20.8
80°-90°	460.6	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°	15217.1	100.0
0°-180°	15217.1	100.0

Coefficient of Utilization



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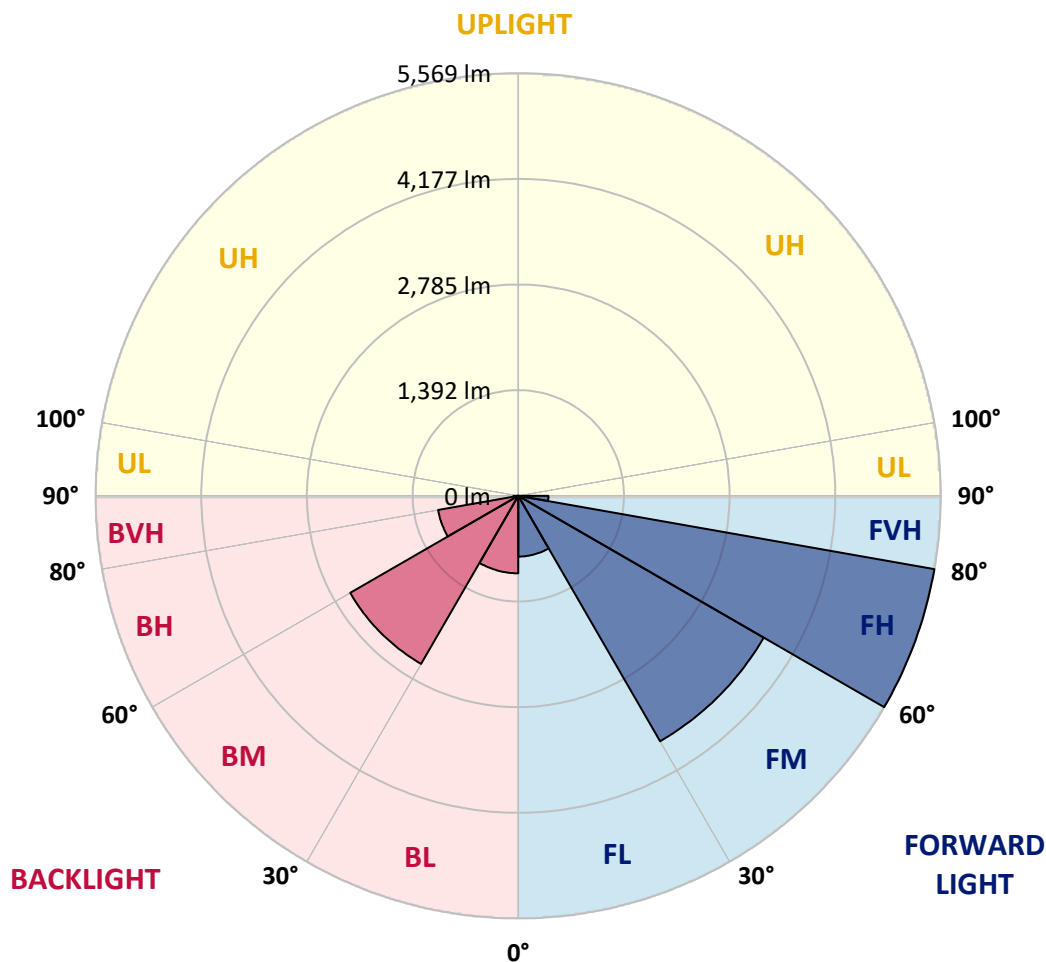
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	800.4	5.3			
FM	(30°-60°)	3735.5	24.5			
FH	(60°-80°)	5569.2	36.6			G3/7500
FVH	(80°-90°)	397.2	2.6			G3/500
BL	(0°-30°)	1021.3	6.7	B3/2500		
BM	(30°-60°)	2557.3	16.8	B3/5000		
BH	(60°-80°)	1072.7	7.0	B3/2500		G3/2500
BVH	(80°-90°)	63.4	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°	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1
2.5°	1713.5	1723.1	1720.8	1717.5	1717.5	1718.3	1717.5	1723.1	1728.8	1734.4	1743.3
5°	1731.2	1740.9	1736.0	1732.0	1728.8	1727.9	1725.6	1724.8	1727.9	1735.2	1747.3
7.5°	1766.0	1775.6	1768.3	1761.1	1754.6	1751.4	1748.1	1743.3	1740.9	1745.0	1761.9
10°	1804.7	1814.4	1805.4	1792.5	1782.1	1778.1	1774.8	1770.0	1766.7	1769.2	1787.7
12.5°	1843.4	1853.1	1841.0	1823.3	1809.5	1807.1	1803.1	1801.4	1800.6	1799.8	1818.4
15°	1879.7	1887.8	1872.5	1851.5	1836.9	1832.9	1828.9	1831.3	1835.4	1840.2	1861.2
17.5°	1907.9	1916.0	1893.5	1866.0	1852.3	1850.6	1848.3	1856.3	1867.7	1879.7	1905.6
20°	1933.8	1941.9	1912.9	1875.6	1859.6	1859.6	1860.4	1877.3	1893.5	1911.2	1946.7
22.5°	1970.2	1976.6	1941.0	1890.2	1866.8	1868.5	1874.9	1891.8	1912.0	1936.2	1985.4
25°	2024.2	2029.1	1985.4	1917.7	1891.0	1895.8	1901.5	1909.6	1928.9	1957.2	2023.4
27.5°	2111.4	2115.4	2058.1	1966.1	1925.8	1933.8	1941.9	1936.2	1945.1	1969.3	2054.1
30°	2234.1	2236.4	2163.9	2042.0	1984.6	1988.7	1990.3	1966.9	1950.0	1969.3	2075.8
32.5°	2379.3	2378.5	2292.1	2133.9	2051.6	2047.6	2033.9	1987.9	1948.3	1965.2	2095.2
35°	2604.5	2595.6	2484.3	2263.1	2127.5	2102.5	2070.2	2011.3	1956.4	1961.2	2112.2
37.5°	2977.4	2950.0	2795.8	2474.6	2240.5	2176.7	2129.1	2049.2	1974.2	1959.6	2132.3
40°	3397.9	3363.1	3193.7	2764.3	2410.0	2307.5	2230.8	2103.3	2003.3	1966.9	2162.2
42.5°	3896.6	3847.4	3665.0	3105.7	2624.7	2476.2	2360.8	2171.9	2046.0	1990.3	2202.5
45°	4509.3	4443.9	4185.6	3490.7	2895.0	2697.3	2543.1	2276.0	2111.4	2035.5	2263.1
47.5°	5128.3	5144.5	4777.2	3931.4	3219.5	2970.1	2771.6	2432.6	2206.6	2108.1	2360.8
50°	5786.1	5797.4	5365.6	4419.7	3587.5	3278.5	3028.3	2607.7	2338.9	2211.4	2506.8
52.5°	6299.3	6301.0	5899.9	4930.6	3971.0	3617.4	3305.1	2807.9	2492.3	2348.7	2701.4
55°	6620.6	6616.6	6274.3	5414.0	4411.6	3973.3	3611.8	3035.5	2679.6	2510.1	2946.0
57.5°	6853.9	6841.8	6532.6	5829.7	4881.4	4393.9	3958.9	3293.7	2900.7	2702.2	3267.9
60°	6942.6	6935.4	6707.8	6188.8	5375.3	4858.7	4359.1	3582.7	3151.7	2928.9	3682.0
62.5°	6976.6	6990.3	6879.7	6536.6	5903.9	5373.7	4799.0	3928.1	3434.2	3185.6	4118.7
65°	7096.0	7121.0	7098.4	6991.8	6501.2	5976.6	5382.5	4338.9	3742.5	3460.8	4574.7
67.5°	7332.4	7357.4	7367.2	7536.7	7230.8	6728.0	6110.5	4850.6	4103.3	3746.6	4917.6
70°	7326.8	7319.5	7490.7	7970.1	8144.4	7768.3	7092.0	5480.2	4533.5	3983.9	4961.2
72.5°	6669.1	6610.9	7015.3	7965.3	8904.7	8854.7	8290.5	6292.2	4904.7	4012.9	4305.1
75°	5003.2	4848.2	5562.5	7178.3	9031.4	9471.3	9052.4	6795.7	4816.8	3545.6	2996.0
77.5°	2139.6	1983.9	2825.6	5313.9	8083.0	8853.8	8353.4	5928.9	3845.0	2344.6	1471.4
80°	560.2	559.3	853.9	2409.2	5497.2	6538.3	5736.0	3828.9	2196.9	837.7	406.0
82.5°	231.6	226.0	314.0	937.1	2686.0	3669.1	2994.3	1707.9	793.3	226.8	134.8
85°	86.4	85.6	152.5	323.7	947.5	1513.3	1095.2	436.6	197.7	110.6	60.6
87.5°	24.2	23.4	33.1	112.2	230.8	350.2	187.3	71.9	55.7	43.6	17.7
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°	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1
2.5°	1745.8	1749.8	1757.1	1762.7	1770.0	1778.1	1789.3	1796.6	1803.9	1808.7	1805.4
5°	1753.1	1761.9	1780.4	1799.0	1820.8	1841.0	1864.4	1881.4	1895.0	1899.1	1900.8
7.5°	1769.2	1783.7	1815.2	1846.6	1881.4	1914.4	1948.3	1977.4	2000.8	2009.7	2010.4
10°	1797.4	1816.8	1861.2	1905.6	1951.6	2002.4	2046.0	2087.9	2121.0	2134.8	2135.6
12.5°	1832.9	1857.1	1915.2	1976.6	2040.4	2110.6	2167.1	2218.7	2259.9	2278.5	2278.5
15°	1878.9	1910.4	1984.6	2067.0	2160.6	2258.3	2330.1	2387.4	2433.4	2456.0	2454.4
17.5°	1928.9	1971.0	2064.6	2188.9	2322.9	2451.2	2535.1	2577.1	2624.7	2646.4	2645.6
20°	1977.4	2029.1	2163.1	2343.8	2522.2	2658.5	2726.4	2737.7	2741.0	2743.3	2749.8
22.5°	2027.4	2096.8	2286.5	2539.1	2730.4	2824.8	2834.5	2786.1	2718.3	2686.8	2695.7
25°	2082.3	2174.3	2447.9	2754.6	2909.6	2920.8	2846.6	2728.8	2600.4	2541.6	2550.4
27.5°	2135.6	2263.9	2641.6	2960.4	3038.7	2939.5	2779.6	2612.6	2457.6	2395.4	2402.7
30°	2188.9	2366.4	2855.5	3140.4	3097.7	2893.5	2673.9	2487.5	2331.7	2266.4	2273.6
32.5°	2242.9	2485.8	3101.6	3270.4	3087.2	2795.8	2542.3	2347.0	2209.8	2141.2	2150.1
35°	2304.3	2632.7	3334.9	3341.4	3016.9	2652.1	2368.9	2179.1	2059.7	2004.8	2016.9
37.5°	2384.1	2819.2	3540.8	3359.1	2894.3	2441.4	2153.3	1980.6	1882.1	1857.1	1874.9
40°	2483.5	3043.5	3698.1	3330.8	2712.7	2185.6	1917.7	1779.6	1723.9	1729.6	1749.0
42.5°	2612.6	3294.6	3808.7	3258.3	2460.0	1921.7	1711.0	1649.7	1676.4	1698.9	1720.0
45°	2780.4	3555.2	3877.3	3134.8	2174.3	1698.1	1589.2	1603.7	1623.9	1626.3	1642.5
47.5°	2995.2	3819.2	3922.5	2948.3	1882.9	1540.8	1511.7	1514.9	1510.8	1493.9	1506.9
50°	3263.1	4075.8	3962.9	2701.4	1635.2	1442.3	1403.5	1392.3	1336.6	1281.7	1288.9
52.5°	3568.1	4311.6	3979.8	2394.7	1442.3	1360.0	1297.0	1226.0	1121.9	1104.9	1110.6
55°	3907.2	4529.5	3936.2	2017.7	1280.0	1254.2	1159.0	1073.5	1062.1	1047.7	1050.0
57.5°	4312.3	4764.3	3847.4	1597.3	1113.8	1130.8	1037.9	1047.7	1027.5	1004.8	1000.8
60°	4755.4	5007.2	3691.6	1213.9	941.9	976.6	1006.4	1005.6	1000.0	981.4	975.0
62.5°	5154.1	5167.0	3385.0	929.8	791.0	857.1	938.7	937.9	933.0	922.5	918.5
65°	5391.4	5142.8	2873.3	732.1	666.7	758.7	846.6	853.1	853.9	853.1	853.1
67.5°	5349.5	4859.5	2171.1	582.7	564.2	658.6	755.4	764.3	770.8	772.4	774.0
70°	4874.9	4237.2	1415.6	464.8	472.9	570.6	669.1	677.9	683.6	690.0	693.3
72.5°	3799.8	3115.4	810.4	376.1	393.1	494.8	583.5	594.0	597.3	609.4	614.2
75°	2315.6	1832.1	437.5	296.2	322.9	422.9	498.8	510.9	516.5	531.1	532.7
77.5°	1100.8	793.3	249.4	230.8	259.8	345.4	421.3	435.0	419.7	427.7	421.3
80°	372.1	294.6	157.3	176.0	198.5	269.6	337.3	351.1	318.8	317.2	314.0
82.5°	130.0	119.4	100.0	117.1	128.3	192.9	255.0	272.8	237.3	236.5	225.2
85°	50.8	48.4	55.7	63.8	76.7	118.6	167.9	176.7	146.1	117.9	116.2
87.5°	10.5	11.3	13.7	14.6	23.4	41.2	60.6	74.2	58.9	50.0	46.0
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)