

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: P965539

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15046 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

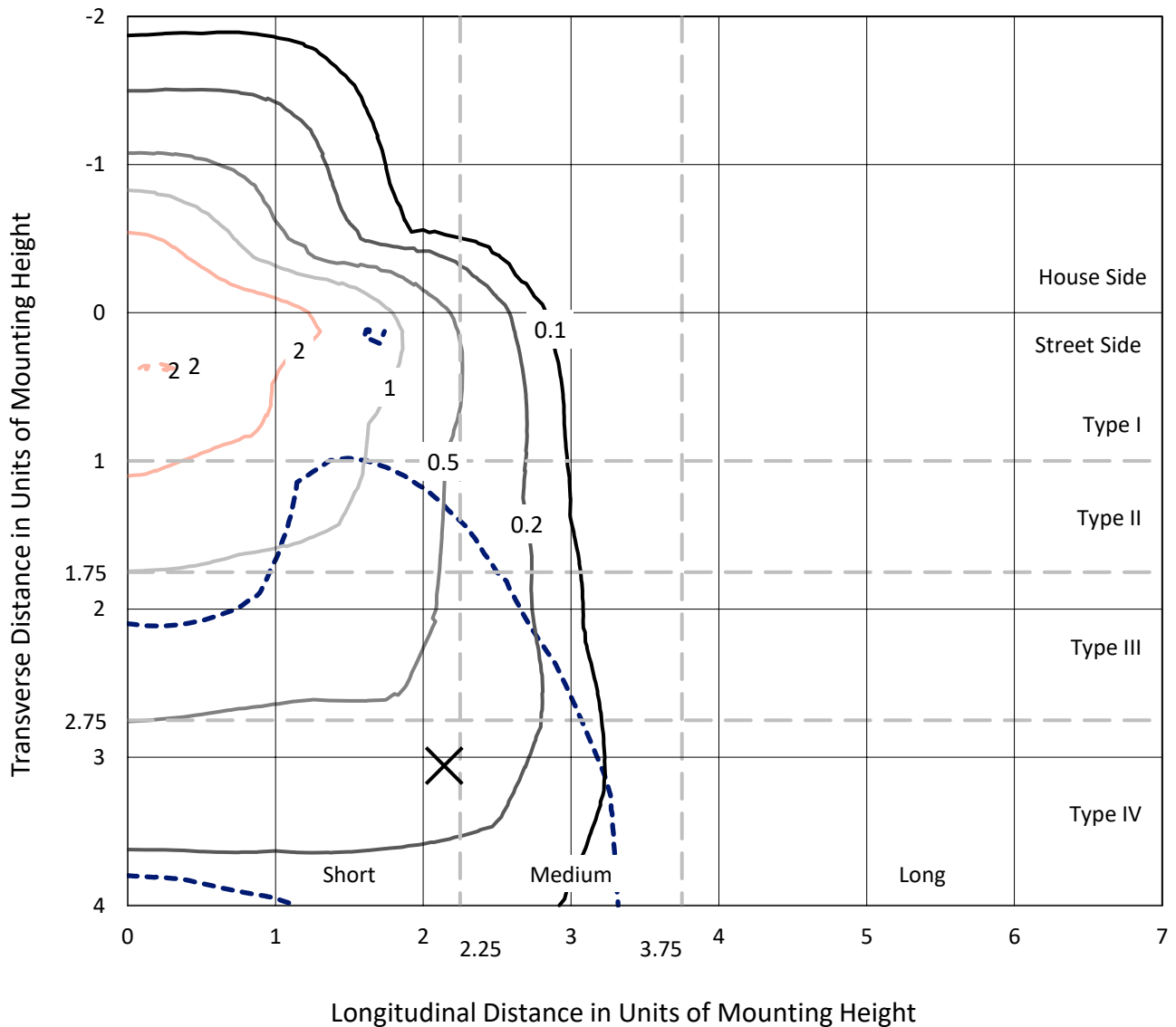
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

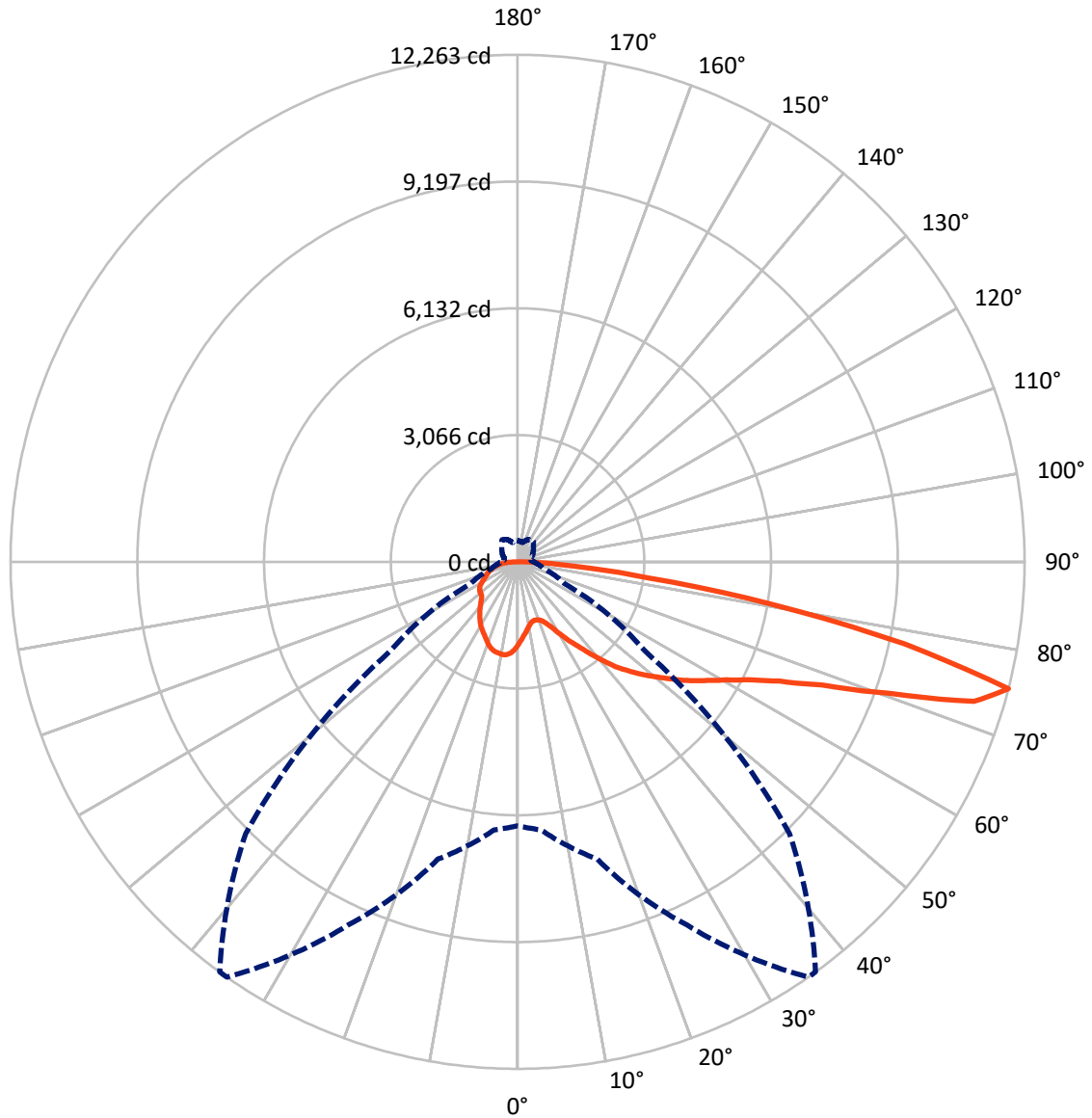
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	3580.6	0.0	3580.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	11465.4	0.0	11465.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	15046.0	0.0	15046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.8	1.3
10°-20°	547.6	3.6
20°-30°	919.5	6.1
30°-40°	1429.0	9.5
40°-50°	2121.0	14.1
50°-60°	2928.2	19.5
60°-70°	3552.6	23.6
70°-80°	2935.9	19.5
80°-90°	422.3	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°	15046.0	100.0
0°-180°	15046.0	100.0

Coefficient of Utilization



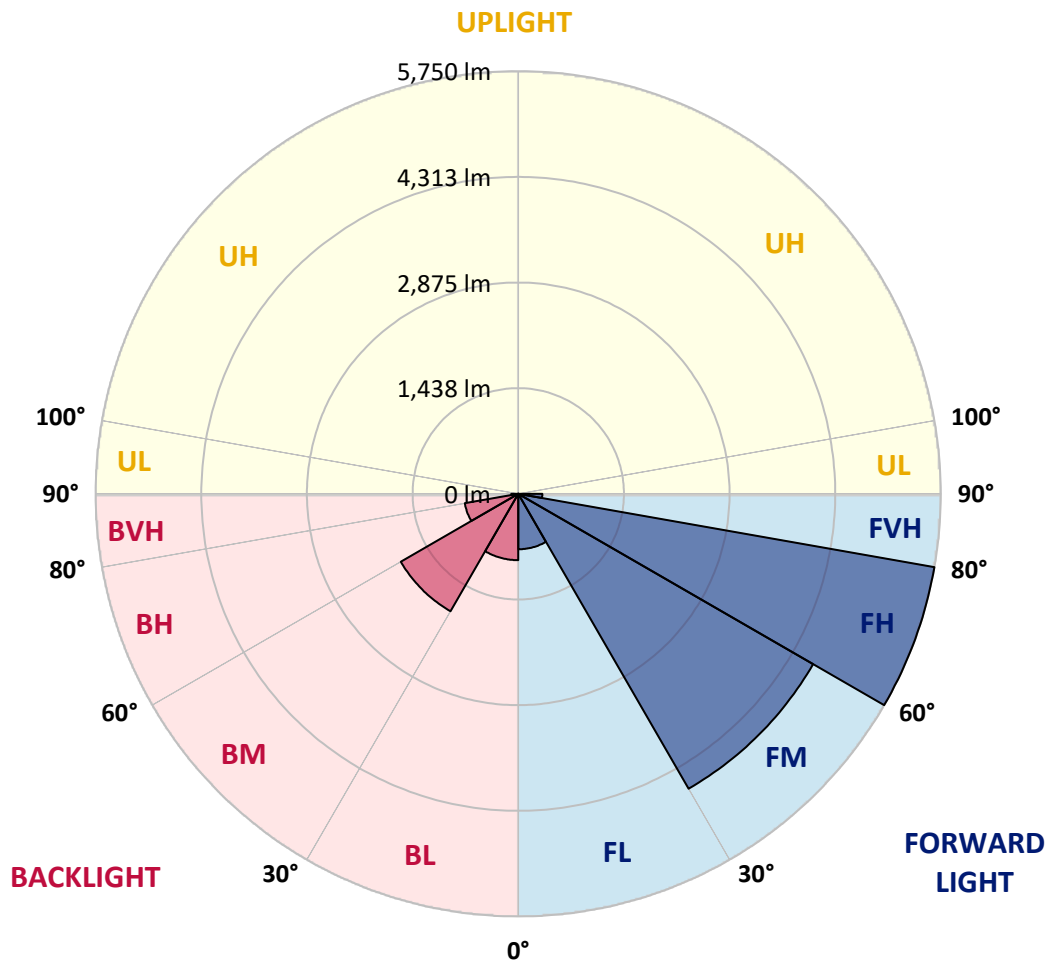
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.5	5.0			
FM (30°-60°)	4633.3	30.8			
FH (60°-80°)	5750.3	38.2			G3/7500
FVH (80°-90°)	327.2	2.2			G3/500
BL (0°-30°)	902.4	6.0	B2/1000		
BM (30°-60°)	1844.9	12.3	B2/2500		
BH (60°-80°)	738.2	4.9	B2/1000		G2/1000
BVH (80°-90°)	95.1	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°	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0
2.5°	1848.8	1860.2	1865.1	1862.6	1874.8	1873.2	1890.3	1911.4	1940.7	1969.2	2010.6
5°	1706.4	1718.6	1729.3	1739.0	1762.6	1769.9	1796.7	1837.4	1891.1	1945.6	2013.9
7.5°	1573.9	1584.4	1600.7	1618.6	1658.4	1665.8	1710.5	1774.0	1848.8	1928.5	2022.8
10°	1465.7	1476.3	1493.3	1513.7	1563.3	1572.2	1629.2	1713.8	1811.4	1912.2	2032.7
12.5°	1419.3	1422.6	1432.3	1452.7	1495.8	1501.5	1564.1	1660.9	1774.8	1900.0	2047.2
15°	1416.9	1423.4	1424.2	1434.8	1470.6	1473.0	1530.7	1626.8	1752.0	1897.6	2069.3
17.5°	1441.4	1446.2	1438.9	1445.4	1475.5	1479.5	1525.1	1610.5	1744.7	1908.1	2106.7
20°	1506.3	1510.4	1488.5	1479.5	1501.5	1504.7	1549.5	1621.0	1752.0	1930.2	2157.9
22.5°	1644.6	1647.1	1593.4	1556.8	1558.4	1560.0	1599.1	1664.2	1780.5	1970.0	2222.9
25°	1860.2	1858.5	1773.1	1702.4	1661.7	1652.8	1678.8	1734.1	1828.5	2022.8	2306.8
27.5°	2112.3	2100.1	2014.7	1909.0	1820.3	1807.3	1801.6	1825.2	1896.8	2092.8	2409.3
30°	2397.1	2385.7	2293.7	2155.5	2032.7	2011.5	1957.9	1945.6	1998.4	2188.0	2551.5
32.5°	2709.4	2702.0	2592.2	2424.6	2260.3	2235.9	2145.7	2113.1	2154.7	2332.0	2750.1
35°	2971.3	2964.8	2873.7	2701.2	2500.3	2470.2	2378.3	2341.7	2362.8	2516.6	3009.5
37.5°	3207.9	3204.7	3126.7	2990.7	2783.4	2746.8	2643.5	2631.3	2627.2	2759.8	3324.3
40°	3427.6	3419.4	3338.1	3266.6	3112.8	3079.4	2988.4	2977.7	2946.9	3059.1	3680.6
42.5°	3670.7	3649.6	3531.7	3498.3	3456.8	3429.2	3374.7	3376.4	3308.0	3396.6	4058.0
45°	3869.3	3857.1	3735.8	3716.3	3761.0	3749.7	3796.8	3809.0	3676.5	3750.5	4450.0
47.5°	4082.4	4071.0	3968.5	3954.7	4075.8	4079.1	4245.9	4249.9	4035.9	4118.1	4842.8
50°	4345.1	4328.8	4227.1	4244.2	4380.0	4392.2	4697.3	4669.6	4367.0	4491.4	5232.4
52.5°	4518.3	4528.0	4506.1	4533.8	4719.2	4730.6	5141.4	5070.6	4694.8	4859.9	5614.7
55°	4646.0	4665.5	4733.9	4797.3	5077.1	5088.5	5560.2	5452.1	4966.5	5201.6	5974.3
57.5°	4810.3	4782.6	4910.4	5034.0	5417.1	5447.2	5967.8	5819.7	5207.2	5495.9	6220.7
60°	5046.2	5026.7	5125.9	5308.9	5797.8	5845.8	6398.9	6150.7	5383.7	5729.4	6268.7
62.5°	5524.4	5475.7	5491.1	5653.0	6277.6	6341.1	6885.2	6439.6	5471.6	5820.6	6011.7
65°	6239.4	6155.6	6077.5	6189.8	6953.6	7016.2	7434.3	6666.5	5439.1	5644.1	5329.3
67.5°	7139.8	7056.9	6960.9	7066.7	7949.2	7998.8	8111.8	6794.1	5182.8	4964.1	4123.1
70°	7882.5	7851.5	7966.2	8401.4	9539.3	9540.9	8980.5	6688.4	4480.9	3519.4	2385.7
72.5°	7784.1	7765.3	8369.6	9714.9	11543.4	11500.4	9802.8	5888.0	3018.4	1587.7	893.9
75°	6385.9	6507.0	7443.2	9691.4	12263.3	12257.6	9299.3	3743.2	1248.6	658.0	462.0
77.5°	3424.3	3616.3	4832.3	7155.3	9573.5	9717.4	6538.0	1309.5	536.0	421.4	319.7
80°	1116.7	1284.3	1926.1	3643.2	6220.7	6193.9	2802.0	514.0	366.8	298.5	221.2
82.5°	474.2	493.7	860.6	1720.3	3192.5	3142.9	892.3	295.3	257.9	204.2	136.6
85°	185.4	207.5	379.9	795.5	1382.7	1352.7	322.1	146.4	165.1	133.4	81.4
87.5°	61.0	74.0	135.8	272.4	430.3	414.8	78.9	50.4	71.5	61.0	29.3
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°	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0	2005.0
2.5°	2022.0	2035.0	2050.5	2073.3	2092.8	2109.0	2126.2	2136.7	2140.8	2153.0	2152.2
5°	2036.7	2065.2	2103.4	2140.8	2177.4	2199.3	2218.9	2228.7	2237.6	2244.1	2245.8
7.5°	2061.1	2097.7	2157.9	2206.7	2237.6	2255.5	2268.5	2265.2	2268.5	2270.2	2272.6
10°	2082.3	2133.5	2205.1	2251.4	2275.0	2275.8	2272.6	2261.1	2255.5	2256.3	2258.0
12.5°	2107.5	2164.4	2241.7	2280.7	2287.2	2269.4	2255.5	2235.9	2228.7	2225.4	2223.7
15°	2141.6	2206.7	2281.5	2296.2	2279.9	2257.2	2233.6	2201.8	2185.5	2172.5	2176.6
17.5°	2183.1	2254.7	2312.4	2301.8	2266.9	2229.5	2191.2	2143.3	2109.9	2096.1	2096.8
20°	2240.9	2305.1	2336.0	2289.6	2236.8	2179.9	2114.8	2056.3	2025.3	2011.5	2009.8
22.5°	2310.8	2372.7	2358.8	2268.5	2193.7	2102.6	2021.2	1978.1	1962.7	1952.9	1954.6
25°	2394.6	2447.5	2375.0	2237.6	2122.9	2000.1	1937.5	1923.6	1916.3	1909.0	1909.0
27.5°	2503.6	2532.1	2387.2	2192.1	2012.3	1891.1	1868.4	1870.7	1868.4	1856.2	1858.5
30°	2647.6	2641.8	2398.6	2118.1	1885.4	1792.7	1794.3	1804.9	1806.6	1798.4	1802.5
32.5°	2837.1	2779.3	2404.3	2022.0	1764.2	1706.4	1708.1	1719.4	1727.6	1713.8	1720.3
35°	3066.4	2939.6	2395.4	1901.7	1670.6	1624.3	1612.1	1615.4	1617.9	1604.8	1613.8
37.5°	3334.0	3119.3	2355.6	1768.3	1593.4	1543.8	1517.7	1495.8	1482.8	1470.6	1478.8
40°	3627.7	3315.4	2282.4	1638.2	1507.2	1458.4	1419.3	1377.9	1333.9	1317.6	1325.0
42.5°	3935.1	3517.1	2193.7	1513.7	1407.9	1368.1	1326.7	1266.4	1200.6	1167.2	1171.3
45°	4254.0	3723.6	2106.7	1390.9	1306.3	1289.2	1241.2	1168.8	1097.3	1054.9	1051.6
47.5°	4566.3	3918.9	1979.0	1267.2	1211.1	1229.8	1192.4	1125.8	1046.0	979.3	972.0
50°	4864.9	4101.8	1769.9	1142.0	1133.9	1212.0	1176.2	1080.1	989.0	903.6	896.4
52.5°	5160.9	4249.9	1502.3	1028.1	1092.3	1207.0	1155.0	1049.3	937.9	848.4	838.6
55°	5412.2	4326.3	1244.5	930.5	1032.2	1165.5	1129.8	1012.7	865.4	770.3	762.1
57.5°	5555.4	4264.5	1029.7	834.6	949.3	1097.3	1086.7	934.6	779.2	706.0	696.3
60°	5493.6	4014.0	854.0	750.7	870.3	1023.3	1011.9	857.3	713.3	644.2	634.5
62.5°	5152.8	3536.6	714.9	677.5	798.8	947.6	937.1	798.0	662.9	596.2	585.6
65°	4466.2	2877.0	606.8	616.5	726.3	856.5	872.0	748.4	623.1	558.0	547.5
67.5°	3406.4	2083.8	522.2	563.6	655.6	767.0	811.8	712.5	589.7	527.9	518.1
70°	1941.6	1183.5	450.6	512.4	593.0	684.1	765.4	684.1	553.9	502.7	496.2
72.5°	736.2	543.4	389.6	461.1	532.8	614.1	714.1	639.3	512.4	474.2	467.7
75°	392.9	331.1	327.8	401.0	463.6	545.8	649.8	595.4	481.5	501.0	517.3
77.5°	267.6	234.2	274.1	343.3	388.0	470.2	581.6	528.7	417.3	415.6	383.1
80°	185.4	165.9	222.8	276.5	300.1	395.3	507.6	453.9	340.0	317.2	303.4
82.5°	111.4	108.1	166.8	206.6	212.3	305.0	420.6	380.7	278.2	242.4	244.1
85°	61.0	64.3	106.6	121.2	123.6	213.1	329.4	294.5	213.9	179.8	181.4
87.5°	17.1	21.9	39.1	48.0	59.3	110.6	196.0	174.9	107.3	74.8	74.8
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)