

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: P965537

Luminaire Tested: **NAV-SB4A-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15232.5 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

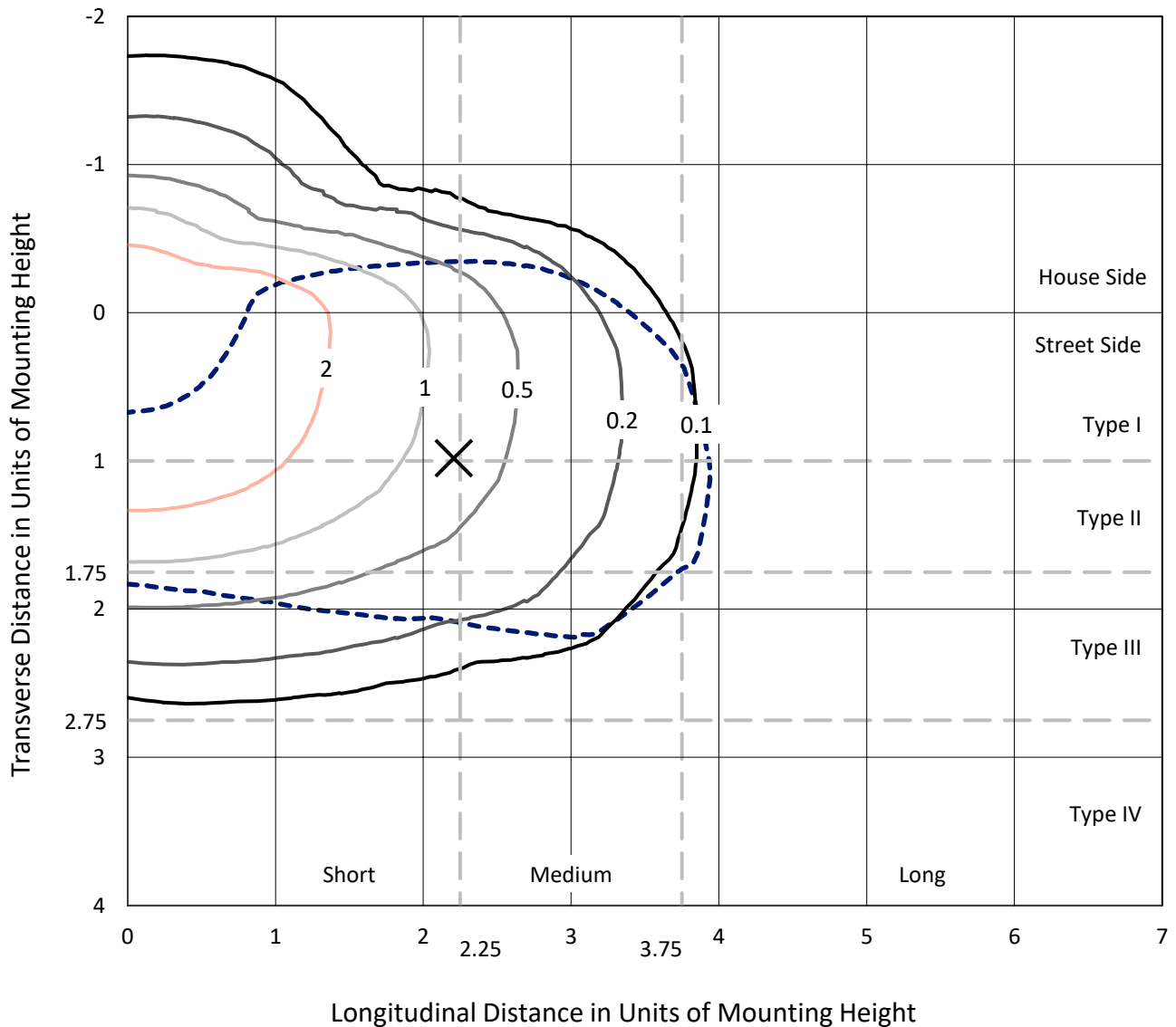
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

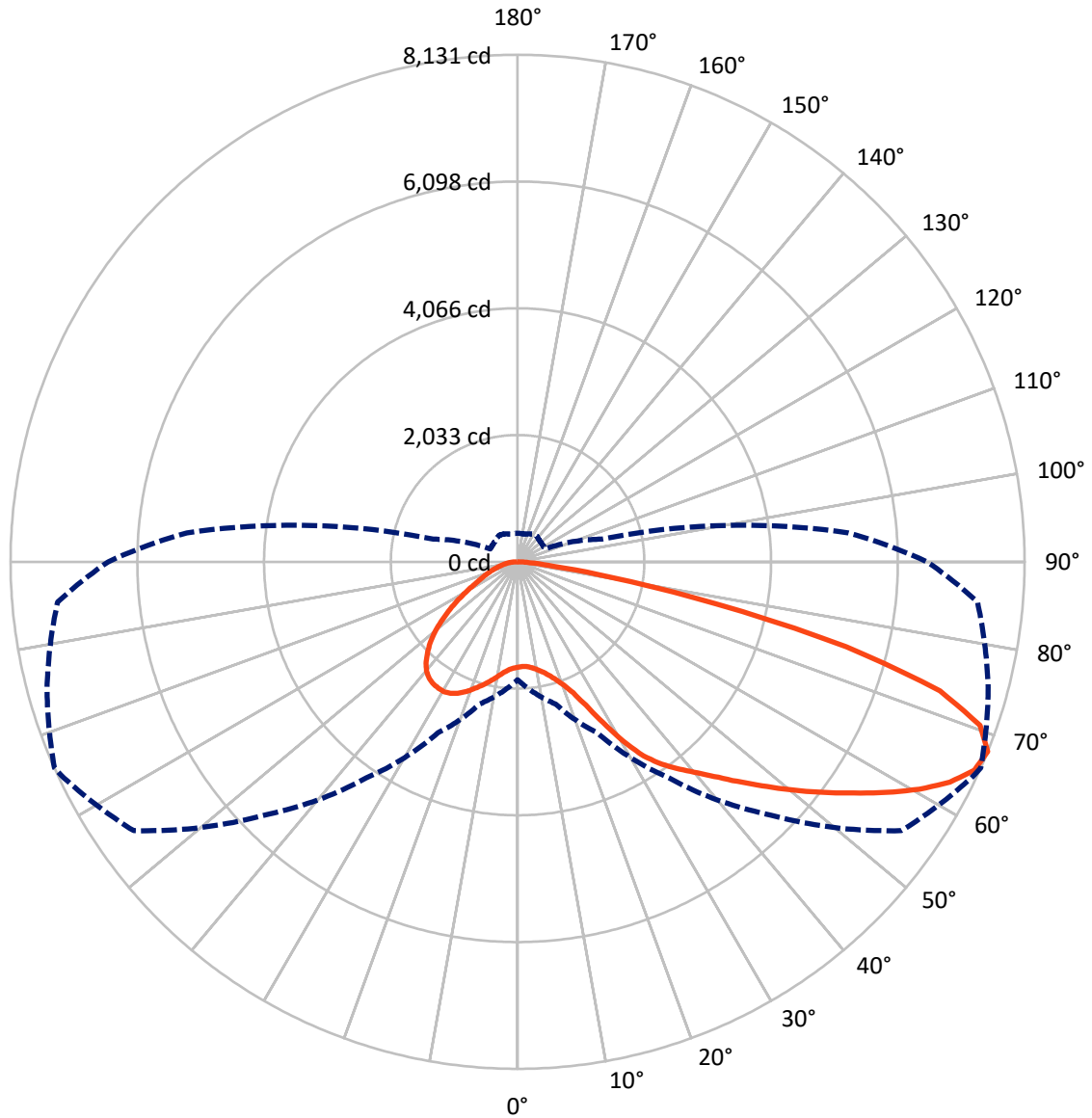
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3787.5	0.0	3787.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	11445.0	0.0	11445.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	15232.5	0.0	15232.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	1.1
10°-20°	553.4	3.6
20°-30°	1066.7	7.0
30°-40°	1870.3	12.3
40°-50°	2780.5	18.3
50°-60°	3524.6	23.1
60°-70°	3448.7	22.6
70°-80°	1645.1	10.8
80°-90°	175.8	1.2
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°	15232.5	100.0
0°-180°	15232.5	100.0

Coefficient of Utilization



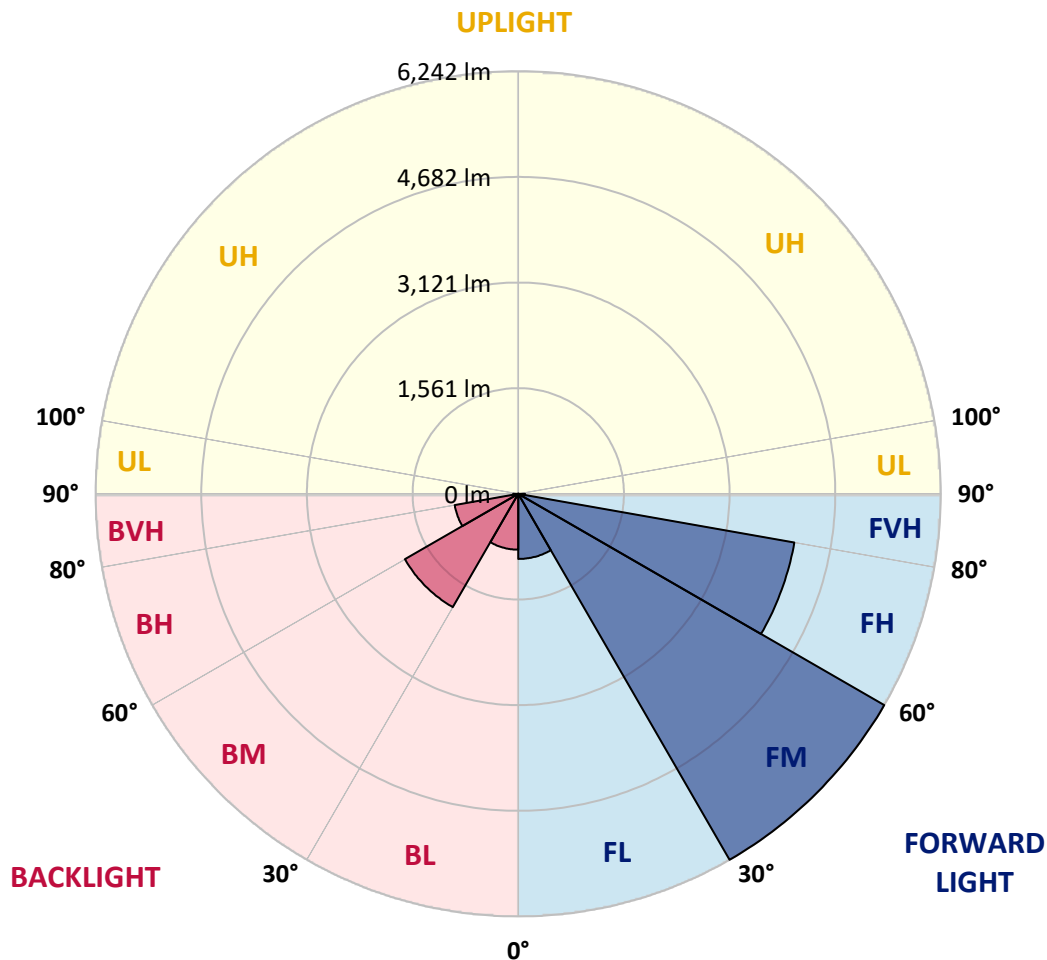
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	962.5	6.3			
FM (30°-60°)	6242.2	41.0			
FH (60°-80°)	4140.6	27.2			G2/5000
FVH (80°-90°)	99.7	0.7			G1/100
BL (0°-30°)	825.1	5.4	B2/1000		
BM (30°-60°)	1933.2	12.7	B2/2500		
BH (60°-80°)	953.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	76.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5
2.5°	1671.9	1681.5	1679.1	1675.1	1674.2	1675.9	1678.3	1680.7	1679.9	1683.9	1690.3
5°	1667.1	1676.7	1675.9	1675.9	1679.1	1685.5	1689.5	1693.5	1689.5	1694.3	1703.1
7.5°	1670.2	1677.5	1680.7	1683.9	1691.9	1703.9	1713.5	1722.3	1717.5	1723.1	1734.3
10°	1711.1	1716.7	1720.0	1720.0	1725.5	1739.1	1748.8	1764.7	1760.7	1769.6	1783.9
12.5°	1785.6	1791.1	1791.1	1787.9	1791.9	1800.7	1803.9	1821.5	1814.4	1828.7	1843.2
15°	1876.8	1887.9	1879.1	1873.6	1875.1	1884.0	1883.1	1896.8	1889.6	1901.6	1914.4
17.5°	1977.6	1992.0	1977.6	1976.8	1973.6	1983.2	1984.0	1996.0	1983.2	1992.0	2000.8
20°	2096.8	2116.8	2104.8	2108.8	2101.7	2105.7	2109.7	2127.3	2107.3	2113.7	2111.3
22.5°	2264.9	2288.9	2276.1	2291.3	2286.6	2283.3	2282.6	2313.7	2282.6	2284.9	2261.8
25°	2509.8	2538.6	2516.3	2537.1	2537.1	2547.4	2559.4	2599.5	2547.4	2532.3	2472.2
27.5°	2871.5	2900.3	2856.4	2869.2	2865.2	2890.8	2878.0	2977.2	2921.1	2896.3	2775.5
30°	3307.0	3358.2	3275.0	3271.7	3267.7	3308.6	3326.9	3392.5	3335.8	3311.0	3165.3
32.5°	3777.5	3831.1	3731.9	3703.1	3688.0	3712.8	3697.5	3750.4	3711.1	3672.7	3492.6
35°	4275.4	4328.2	4233.8	4177.7	4116.9	4064.8	4010.4	4024.0	3987.2	3928.8	3742.3
37.5°	4746.0	4842.8	4742.8	4682.7	4570.7	4469.0	4317.0	4253.8	4219.3	4165.7	3977.6
40°	5225.3	5280.6	5204.5	5153.3	5031.6	4872.3	4629.1	4495.4	4449.0	4396.9	4237.8
42.5°	5578.3	5631.1	5590.2	5555.1	5459.9	5275.0	4960.4	4793.1	4726.0	4667.5	4532.2
45°	5858.4	5897.6	5872.0	5884.8	5843.9	5664.7	5303.8	5112.5	5042.9	4971.7	4865.2
47.5°	5971.2	6012.9	6053.6	6129.7	6199.3	6067.3	5672.8	5458.2	5384.6	5311.8	5206.9
50°	5958.4	6000.9	6119.2	6281.0	6497.1	6453.0	6061.6	5826.4	5758.3	5675.1	5578.3
52.5°	5856.0	5904.0	6056.1	6325.0	6669.2	6741.9	6457.8	6206.5	6142.5	6043.3	5946.4
55°	5587.1	5615.9	5843.9	6224.9	6710.0	6943.7	6846.0	6611.5	6547.5	6409.0	6303.3
57.5°	5088.5	5130.1	5462.2	5955.2	6607.5	7080.5	7186.9	7037.2	6975.6	6776.4	6665.9
60°	4437.8	4504.3	4884.4	5502.2	6346.6	7079.7	7496.6	7455.8	7404.6	7138.1	7022.9
62.5°	3701.5	3778.4	4144.1	4862.0	5890.4	6878.8	7690.4	7806.4	7780.0	7471.8	7324.5
65°	2842.7	2895.6	3259.7	4033.7	5180.6	6447.5	7712.7	8045.6	8050.5	7725.5	7482.3
67.5°	1892.8	2044.9	2361.0	3026.8	4229.8	5742.4	7515.8	8084.9	8131.3	7812.8	7403.1
70°	923.6	1123.7	1433.4	1967.2	3026.8	4661.1	7001.3	7763.1	7866.4	7558.2	6930.8
72.5°	383.3	448.2	617.0	970.8	1737.5	3145.3	5967.2	6890.8	7082.1	6697.1	5827.1
75°	258.5	280.1	352.9	497.8	791.5	1551.0	4303.4	5138.1	5446.2	5058.1	4134.4
77.5°	199.3	212.9	256.9	348.2	470.6	586.6	2303.4	3096.4	3255.7	3014.0	2151.3
80°	156.8	167.3	192.1	253.7	333.7	313.8	785.2	1403.0	1495.0	1254.1	691.5
82.5°	136.0	140.0	137.7	172.1	221.7	183.3	257.7	517.8	571.4	414.6	225.7
85°	98.4	109.7	114.5	106.4	117.7	92.9	105.7	183.3	201.7	180.1	127.2
87.5°	40.0	59.2	72.9	68.8	43.3	26.4	32.8	53.6	61.6	67.2	41.6
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°	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5
2.5°	1691.0	1696.7	1700.7	1705.5	1708.7	1713.5	1723.1	1728.7	1729.5	1733.5	1732.7
5°	1706.3	1714.3	1723.1	1735.9	1750.3	1762.3	1780.7	1793.5	1798.4	1802.4	1801.5
7.5°	1739.1	1750.3	1766.3	1788.7	1809.5	1825.5	1848.0	1863.1	1878.4	1884.0	1884.8
10°	1787.9	1803.9	1827.2	1857.6	1880.0	1900.8	1924.0	1936.8	1952.0	1958.4	1961.6
12.5°	1848.8	1865.6	1895.9	1938.4	1959.2	1973.6	1981.6	1978.5	1981.6	1987.2	1988.8
15°	1918.4	1936.8	1971.2	2016.8	2031.2	2018.4	2000.8	1984.8	1982.5	1984.0	1989.6
17.5°	2000.8	2014.4	2054.4	2092.8	2082.5	2029.6	1991.2	1965.6	1952.8	1948.8	1954.4
20°	2116.1	2116.1	2148.9	2172.9	2103.3	2013.6	1953.5	1911.9	1885.6	1874.3	1872.0
22.5°	2256.1	2243.3	2264.1	2247.3	2099.3	1968.8	1885.6	1813.5	1773.6	1757.5	1755.1
25°	2433.8	2418.6	2413.0	2308.9	2070.4	1897.6	1762.3	1675.1	1639.9	1631.1	1632.6
27.5°	2701.9	2663.5	2590.7	2342.5	2017.6	1785.6	1618.3	1537.4	1517.4	1518.2	1520.6
30°	3058.8	2982.0	2803.6	2348.2	1931.2	1627.1	1471.0	1413.4	1403.7	1407.7	1421.4
32.5°	3389.4	3316.6	3021.2	2322.5	1798.4	1471.8	1339.0	1300.5	1286.2	1290.9	1297.3
35°	3648.7	3628.7	3222.9	2286.6	1635.1	1326.1	1220.5	1187.7	1159.7	1153.2	1158.0
37.5°	3893.6	3885.6	3374.2	2236.1	1473.4	1222.9	1125.2	1082.0	1041.2	1018.8	1019.6
40°	4162.5	4154.5	3473.4	2158.4	1330.1	1133.2	1039.7	982.8	932.3	891.5	895.5
42.5°	4465.0	4417.8	3520.7	2047.2	1208.5	1057.2	970.0	893.2	826.8	789.1	791.5
45°	4795.6	4689.1	3519.8	1905.6	1106.1	987.6	895.5	786.7	725.1	689.9	688.3
47.5°	5146.1	4948.4	3476.6	1748.8	1006.9	910.8	780.3	697.1	656.3	634.7	629.9
50°	5507.8	5190.9	3403.0	1568.7	905.2	823.5	708.3	651.5	620.2	600.2	593.1
52.5°	5847.9	5411.0	3314.1	1364.6	802.0	738.7	676.3	632.2	599.4	577.1	567.4
55°	6164.1	5600.7	3188.5	1155.7	717.9	681.8	661.0	624.2	586.6	560.3	549.8
57.5°	6445.0	5723.9	2971.6	959.6	657.8	642.7	645.0	610.7	567.4	545.0	530.6
60°	6678.7	5814.4	2650.6	777.9	609.1	604.2	620.2	585.1	534.6	509.0	497.8
62.5°	6818.8	5812.8	2256.9	637.0	567.4	569.1	587.4	553.0	501.8	477.8	470.6
65°	6806.8	5670.3	1824.7	545.0	527.5	529.0	553.0	517.8	474.6	460.2	459.4
67.5°	6565.8	5322.9	1399.7	485.0	483.4	490.6	518.6	493.8	457.8	456.2	458.6
70°	5913.6	4601.8	1008.4	437.0	437.8	448.2	485.0	478.6	449.0	452.2	451.4
72.5°	4742.0	3508.7	677.1	386.5	387.3	404.2	452.9	466.6	440.1	482.6	489.0
75°	3158.1	2188.1	435.4	332.9	333.7	355.4	425.0	443.4	416.2	481.0	485.0
77.5°	1517.4	983.6	315.3	280.1	280.1	300.1	367.4	397.0	354.5	373.7	342.6
80°	524.2	369.7	248.0	225.7	220.9	234.5	309.8	344.1	305.8	281.7	264.1
82.5°	206.4	192.1	199.3	175.3	159.3	168.1	240.9	284.1	224.9	203.3	202.4
85°	118.5	124.8	140.8	116.0	92.0	103.2	176.9	204.1	169.6	149.6	152.8
87.5°	32.0	44.0	64.8	60.1	41.6	44.0	84.0	112.9	97.7	75.2	77.6
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)