

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: P963955

Luminaire Tested: **NAV-SB3B-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14686.2 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

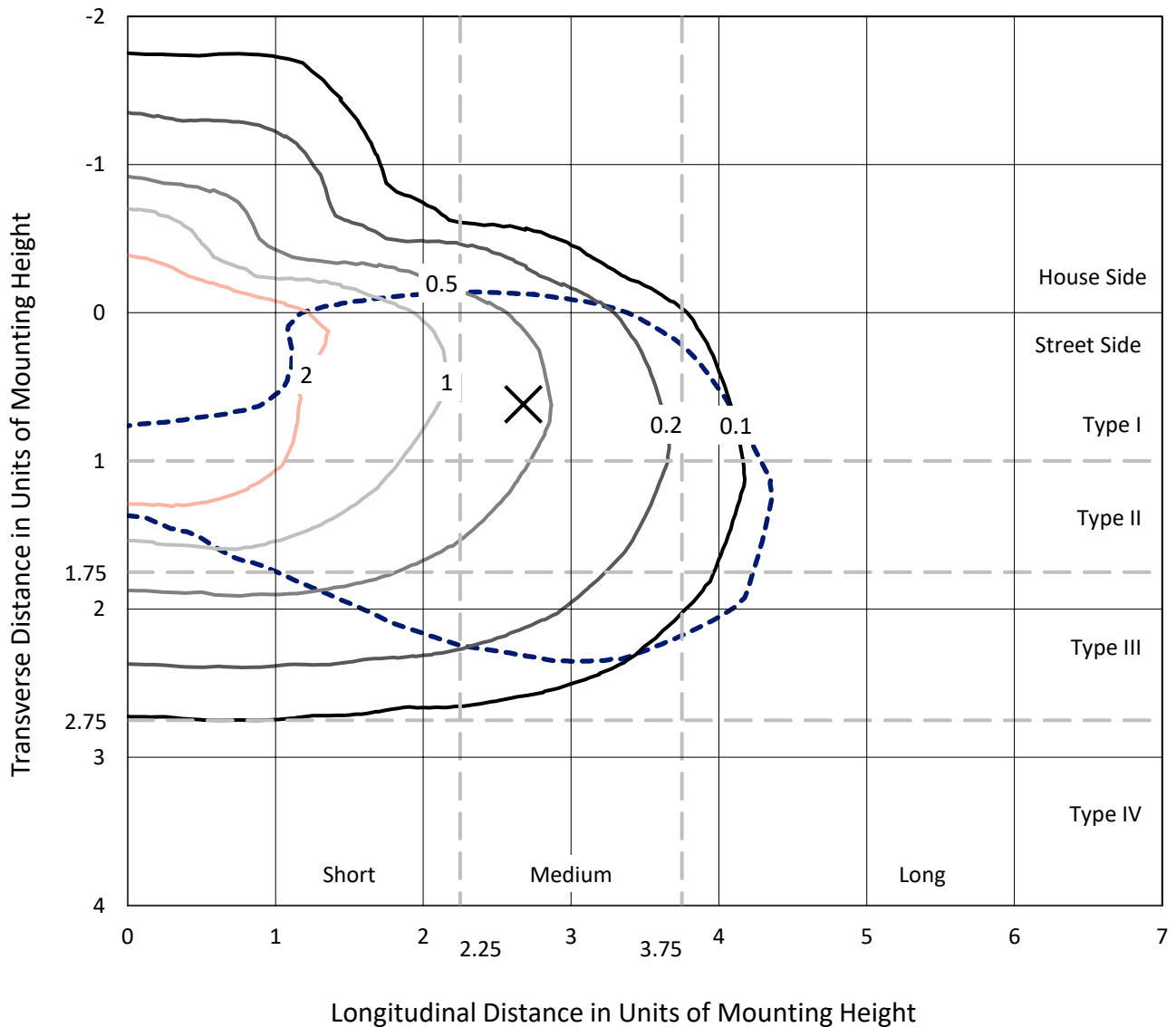
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

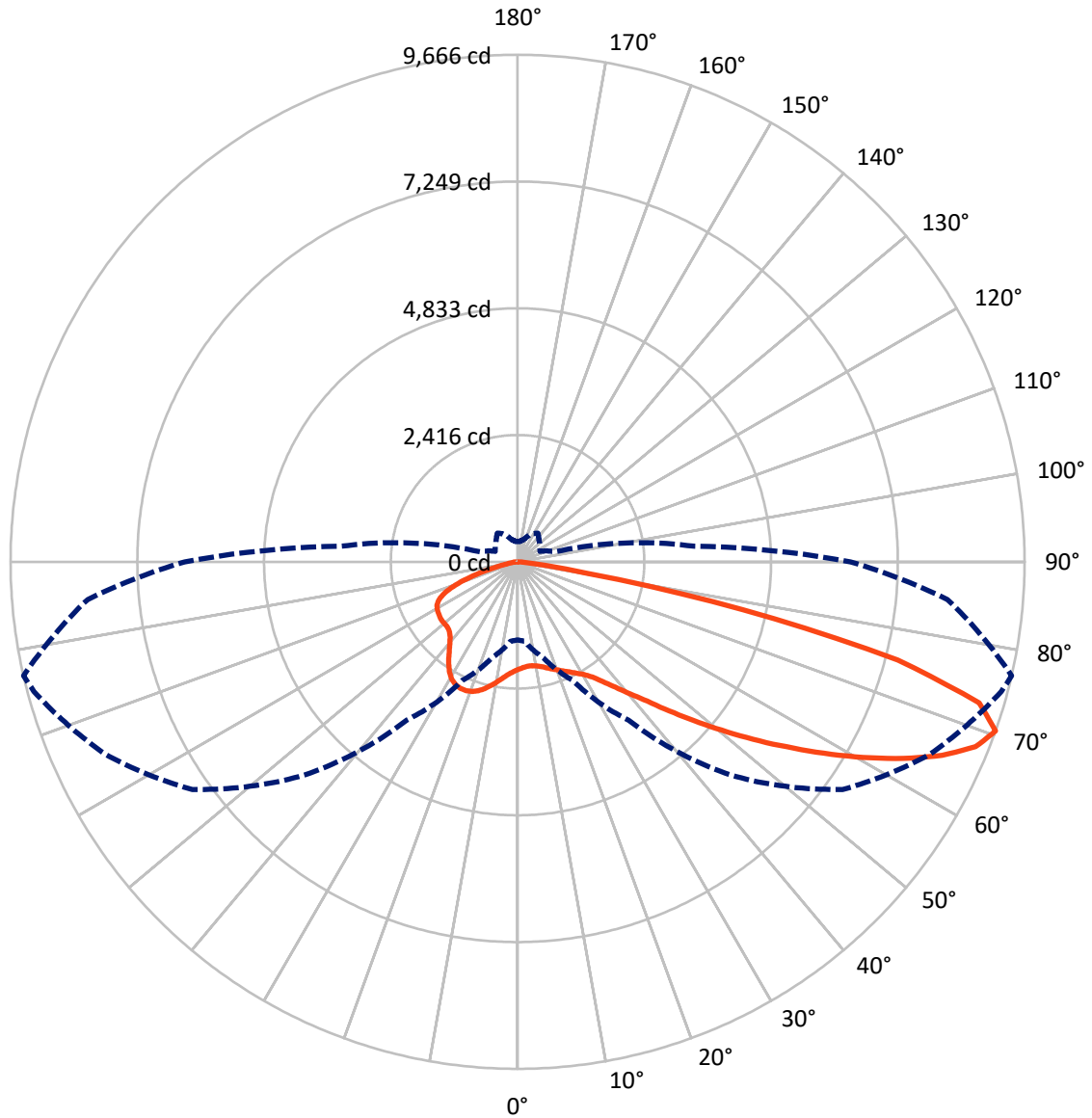
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3216.0	0.0	3216.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11470.1	0.0	11470.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	14686.2	0.0	14686.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	1.3
10°-20°	564.0	3.8
20°-30°	964.4	6.6
30°-40°	1550.9	10.6
40°-50°	2421.4	16.5
50°-60°	3234.4	22.0
60°-70°	3447.4	23.5
70°-80°	2122.2	14.5
80°-90°	186.0	1.3
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°	14686.2	100.0
0°-180°	14686.2	100.0

Coefficient of Utilization

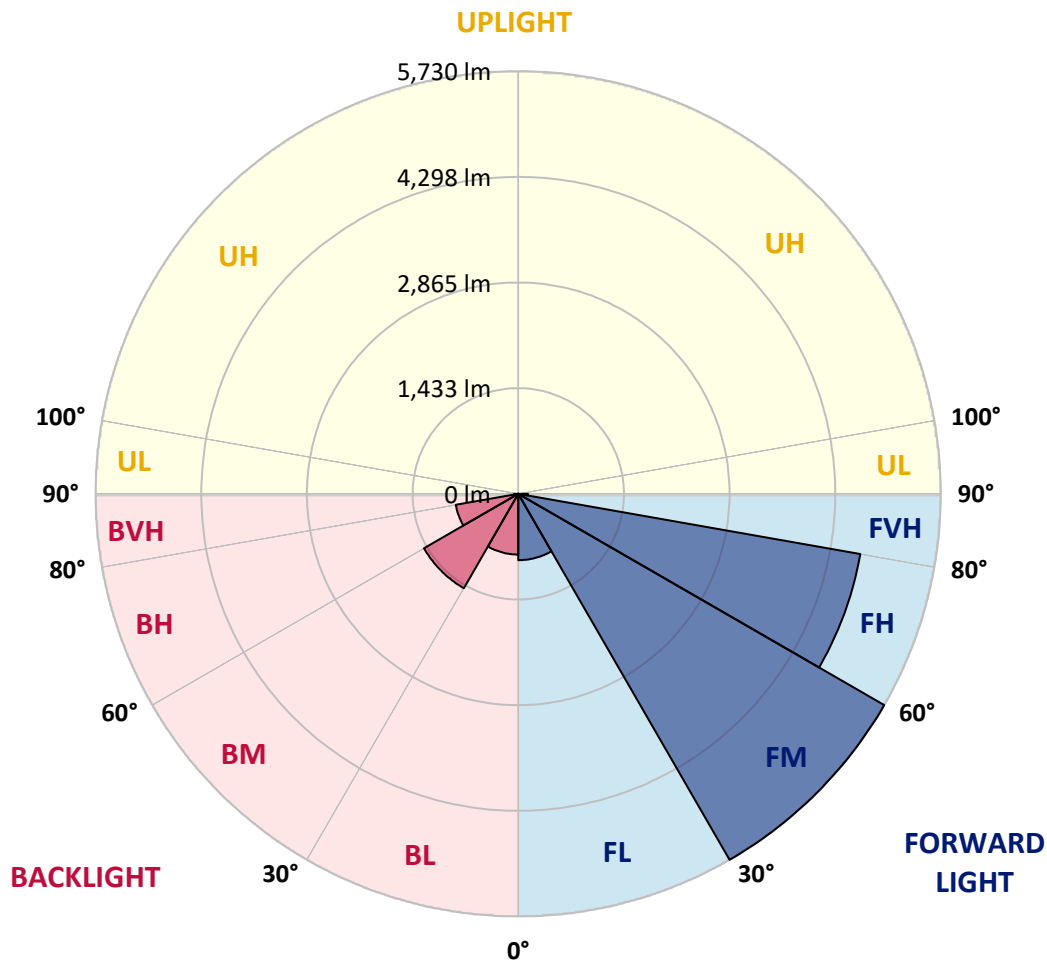


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.8	6.1			
FM (30°-60°)	5730.2	39.0			
FH (60°-80°)	4710.1	32.1			G2/5000
FVH (80°-90°)	130.0	0.9			G2/225
BL (0°-30°)	824.1	5.6	B2/1000		
BM (30°-60°)	1476.6	10.1	B2/2500		
BH (60°-80°)	859.5	5.9	B2/1000		G2/1000
BVH (80°-90°)	55.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9
2.5°	1888.7	1887.9	1897.7	1900.7	1918.7	1931.5	1955.6	1981.1	2014.2	2018.0	2038.3
5°	1779.6	1779.6	1790.9	1802.9	1826.2	1851.8	1888.7	1933.0	1990.1	1999.3	2049.6
7.5°	1687.0	1693.1	1702.8	1726.2	1753.3	1790.2	1846.5	1909.7	1984.9	1999.3	2080.4
10°	1612.6	1619.4	1631.4	1650.2	1690.8	1742.0	1815.7	1897.0	1997.7	2020.3	2125.5
12.5°	1589.3	1596.0	1602.8	1617.1	1654.8	1714.9	1802.9	1902.9	2028.6	2051.1	2187.2
15°	1643.5	1651.7	1646.5	1642.7	1662.2	1717.2	1808.9	1924.7	2066.9	2099.3	2263.2
17.5°	1768.3	1771.3	1759.3	1723.9	1720.9	1750.3	1837.5	1954.9	2115.1	2150.4	2340.0
20°	1969.8	1964.6	1939.8	1869.8	1829.9	1824.0	1886.4	2000.0	2164.7	2202.3	2422.7
22.5°	2243.6	2237.7	2188.0	2077.5	1988.7	1930.0	1957.1	2058.6	2220.4	2262.5	2503.2
25°	2585.2	2576.8	2503.9	2353.5	2215.8	2070.7	2053.4	2136.1	2288.8	2327.9	2587.4
27.5°	2983.8	2977.0	2898.1	2699.4	2500.9	2263.2	2173.0	2227.1	2360.3	2404.6	2682.2
30°	3412.5	3432.1	3292.2	3078.6	2827.4	2514.4	2333.9	2339.2	2452.7	2492.6	2797.2
32.5°	3916.4	3950.2	3781.8	3511.0	3168.1	2787.5	2537.0	2495.7	2587.4	2620.5	2942.4
35°	4415.9	4454.2	4314.3	4015.0	3620.1	3109.4	2749.2	2675.4	2766.4	2802.6	3135.0
37.5°	4847.6	4898.8	4826.5	4566.3	4103.7	3497.5	3025.9	2886.7	2986.7	3032.0	3393.7
40°	5188.3	5266.6	5261.3	5098.9	4673.9	3968.4	3377.2	3147.8	3260.5	3309.4	3707.3
42.5°	5465.1	5532.8	5591.5	5583.2	5268.8	4503.1	3790.0	3486.9	3572.7	3629.1	4060.1
45°	5656.2	5728.4	5854.7	5990.9	5841.2	5075.5	4263.2	3889.4	3967.6	4052.5	4480.6
47.5°	5826.9	5908.9	6072.8	6288.7	6327.1	5650.1	4781.4	4358.0	4429.4	4517.4	4902.5
50°	5842.0	5912.6	6166.9	6473.0	6672.3	6202.3	5338.0	4883.7	4950.6	5044.6	5354.6
52.5°	5478.6	5589.9	6033.8	6467.7	6831.0	6664.0	5890.9	5430.6	5505.8	5618.5	5822.4
55°	4252.6	4415.9	5643.3	6266.1	6774.6	6962.6	6416.6	6011.9	6108.2	6226.3	6293.3
57.5°	3662.9	3734.4	4479.8	5899.1	6517.4	7040.1	6860.3	6599.4	6754.3	6883.7	6791.1
60°	3292.2	3351.5	3792.3	5328.3	6178.9	6917.5	7203.4	7146.9	7414.7	7568.9	7300.4
62.5°	2895.0	2951.5	3352.4	4449.0	5745.6	6713.6	7420.0	7652.3	8091.7	8260.2	7780.3
65°	2500.9	2549.1	2933.3	3738.2	5195.1	6509.9	7532.0	8089.4	8718.1	8892.7	8178.9
67.5°	2061.7	2101.6	2464.8	3153.7	4525.7	6230.8	7587.7	8433.1	9263.5	9413.2	8376.0
70°	1487.8	1518.6	1893.9	2494.1	3685.5	5751.0	7565.1	8676.8	9546.3	9665.9	8227.1
72.5°	703.3	731.1	1171.9	1619.4	2603.2	4816.8	7108.6	8483.5	9258.9	9199.6	7315.4
75°	375.4	399.4	673.2	888.3	1374.9	3301.9	5817.2	7307.9	7774.9	7486.2	5406.5
77.5°	254.2	273.1	416.7	533.3	628.0	1567.5	3738.9	5059.7	4867.9	4391.1	2707.7
80°	201.6	221.1	341.4	361.0	303.9	566.4	1544.9	2342.2	1682.5	1345.6	770.2
82.5°	155.0	176.7	287.3	261.8	165.4	232.4	449.8	740.9	431.0	327.9	186.5
85°	94.8	118.1	225.6	167.0	93.3	106.1	152.7	206.1	131.6	109.8	66.9
87.5°	48.2	67.6	114.3	60.9	42.1	24.8	40.6	40.6	34.6	30.1	17.3
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°	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9	2048.9
2.5°	2056.4	2071.4	2097.0	2121.0	2139.9	2157.9	2176.0	2185.7	2188.8	2200.8	2207.5
5°	2080.4	2108.3	2157.9	2204.6	2233.9	2251.9	2264.7	2272.2	2273.8	2277.5	2283.5
7.5°	2124.8	2169.2	2238.4	2285.0	2306.9	2305.3	2300.1	2281.2	2273.8	2267.0	2268.5
10°	2187.2	2245.9	2331.0	2363.2	2349.7	2313.6	2267.0	2212.1	2186.5	2161.7	2154.1
12.5°	2264.7	2339.2	2422.7	2421.2	2354.2	2261.8	2153.4	2069.2	2015.8	1977.4	1968.4
15°	2358.7	2444.5	2508.4	2457.2	2310.7	2144.4	1985.6	1875.9	1827.7	1785.7	1781.1
17.5°	2455.8	2547.5	2576.8	2446.0	2200.8	1970.7	1790.9	1704.4	1657.0	1634.5	1641.2
20°	2550.5	2641.5	2617.4	2381.3	2033.8	1773.6	1613.4	1566.0	1556.2	1561.5	1559.2
22.5°	2650.5	2731.8	2625.7	2256.4	1820.9	1572.0	1484.0	1485.5	1507.3	1523.1	1526.8
25°	2752.8	2807.8	2603.9	2075.9	1592.3	1423.8	1402.0	1426.1	1468.9	1499.8	1508.1
27.5°	2851.4	2875.4	2556.6	1852.6	1395.9	1317.7	1321.5	1371.1	1435.8	1478.8	1489.2
30°	2962.8	2935.6	2465.5	1601.4	1259.8	1226.7	1258.4	1316.3	1381.0	1419.3	1428.3
32.5°	3088.3	2987.6	2321.1	1368.9	1163.6	1153.8	1205.7	1243.3	1271.9	1283.2	1289.1
35°	3244.7	3060.5	2136.1	1205.7	1077.1	1100.4	1150.0	1131.2	1119.9	1114.0	1119.9
37.5°	3447.9	3159.0	1919.5	1099.6	1007.2	1062.0	1082.3	1023.7	979.3	957.5	962.8
40°	3692.4	3303.5	1711.1	1017.6	962.8	1028.9	993.6	922.9	866.4	835.7	837.9
42.5°	3963.9	3454.7	1535.9	956.0	938.0	1001.8	928.1	843.9	752.9	743.1	752.9
45°	4248.9	3610.4	1416.3	908.6	925.9	978.6	890.5	754.4	689.7	729.6	750.6
47.5°	4534.0	3753.2	1344.1	873.2	919.8	952.2	857.4	704.8	658.9	716.8	743.8
50°	4851.3	3881.1	1311.8	847.7	913.1	941.7	807.8	692.0	626.6	664.9	693.5
52.5°	5166.5	3980.4	1287.7	822.0	903.3	933.5	783.7	676.9	587.4	589.7	605.5
55°	5480.9	4045.1	1261.4	788.2	881.5	915.3	781.5	660.4	558.1	547.6	555.0
57.5°	5816.4	4082.0	1229.0	750.6	843.9	869.5	779.2	647.6	549.1	531.8	534.0
60°	6157.9	4136.1	1186.8	704.8	793.6	814.6	774.0	643.1	543.8	514.4	516.7
62.5°	6464.0	4154.8	1136.5	661.1	728.9	760.4	762.7	639.3	529.5	479.1	479.1
65°	6664.9	4073.7	1048.5	611.5	658.9	704.8	740.9	626.6	503.9	453.6	453.6
67.5°	6656.6	3842.0	910.8	547.6	591.2	643.1	709.3	604.8	473.1	422.0	424.2
70°	6346.7	3384.7	736.4	473.1	516.7	576.9	668.7	572.4	436.2	387.3	391.9
72.5°	5443.4	2649.1	534.7	385.8	430.2	508.5	616.0	533.3	398.6	356.5	354.2
75°	3888.6	1676.6	362.5	296.3	334.7	431.0	550.5	487.4	364.1	358.0	337.7
77.5°	1986.4	801.0	240.0	216.6	233.2	340.0	462.6	435.5	369.3	295.6	263.2
80°	646.1	295.6	151.2	147.4	155.0	226.4	358.0	357.3	279.8	200.8	177.5
82.5°	206.1	127.1	98.5	94.8	91.0	142.2	249.7	282.8	188.8	127.1	126.4
85°	82.0	76.0	57.9	53.4	38.3	66.9	130.9	188.1	140.6	91.7	94.0
87.5°	30.1	30.1	15.8	11.3	8.3	22.5	35.4	56.4	80.5	47.4	46.6
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)