

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: P962370

Luminaire Tested: **NAV-SB2C-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962370  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-722-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12851.5 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

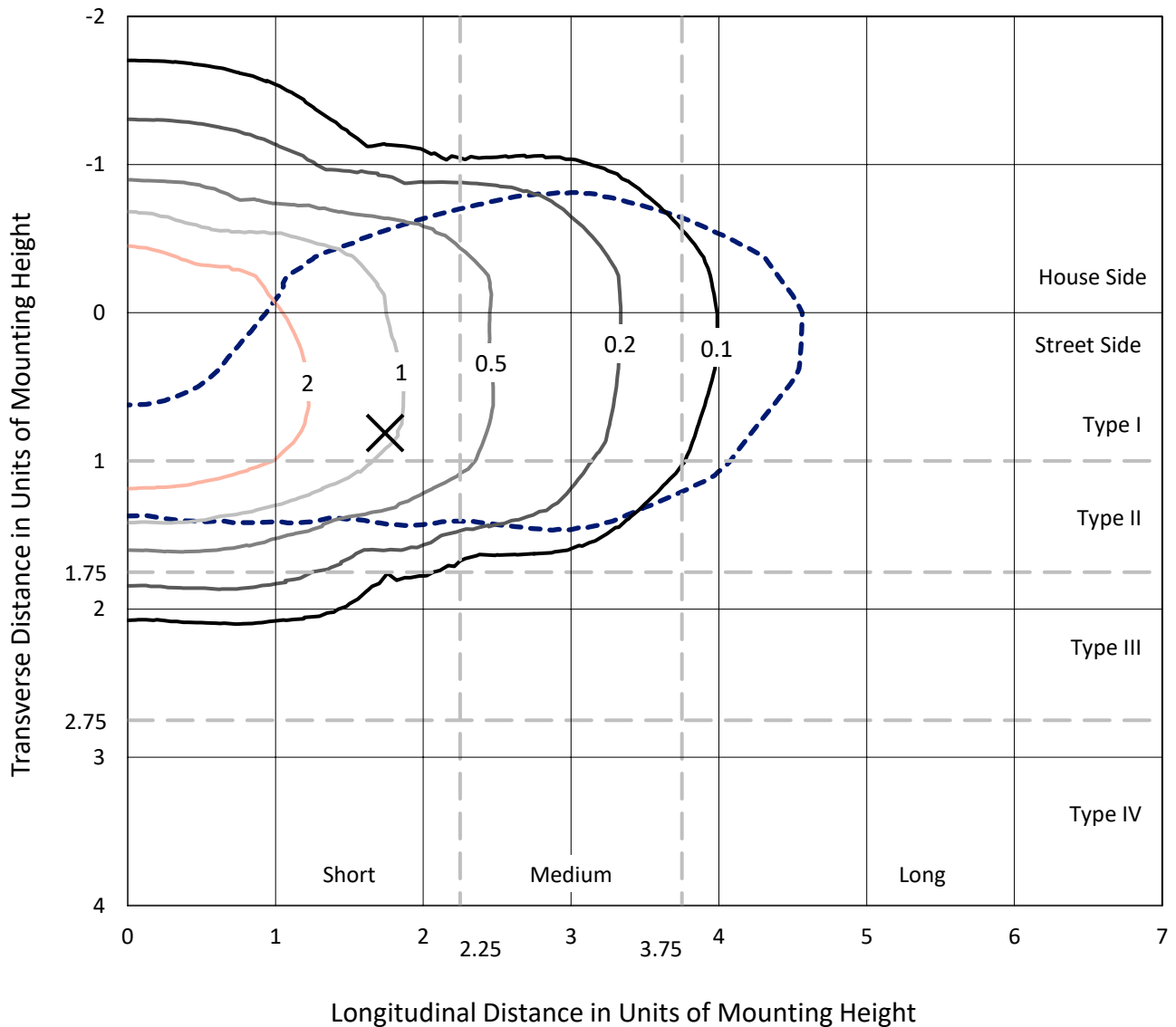
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

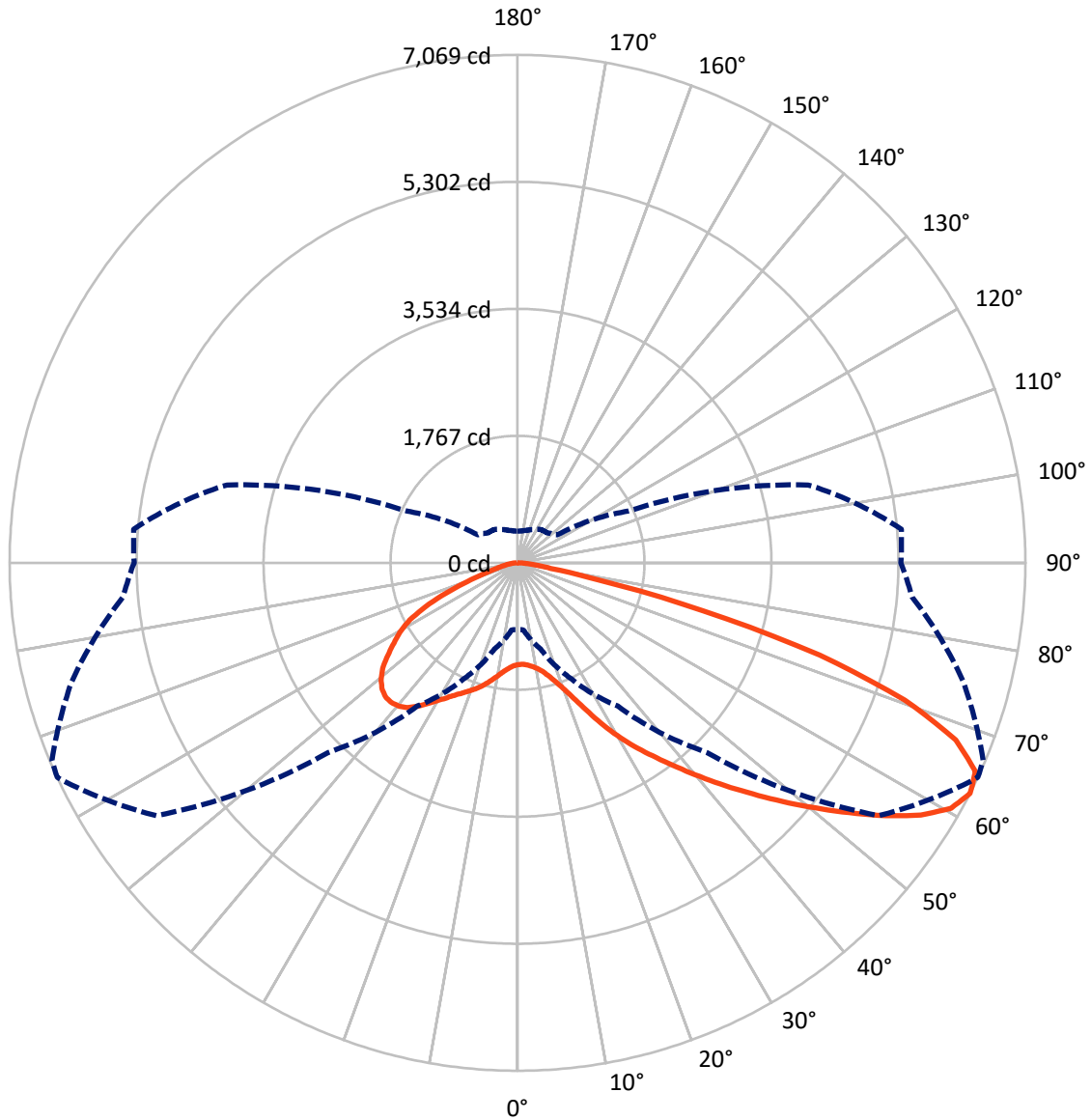
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4055.4	0.0	4055.4
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	8796.1	0.0	8796.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	12851.5	0.0	12851.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.2	1.1
10°-20°	478.8	3.7
20°-30°	970.8	7.6
30°-40°	1680.0	13.1
40°-50°	2542.3	19.8
50°-60°	2980.7	23.2
60°-70°	2498.9	19.4
70°-80°	1379.6	10.7
80°-90°	179.2	1.4
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°	12851.5	100.0
0°-180°	12851.5	100.0

**Coefficient of Utilization**



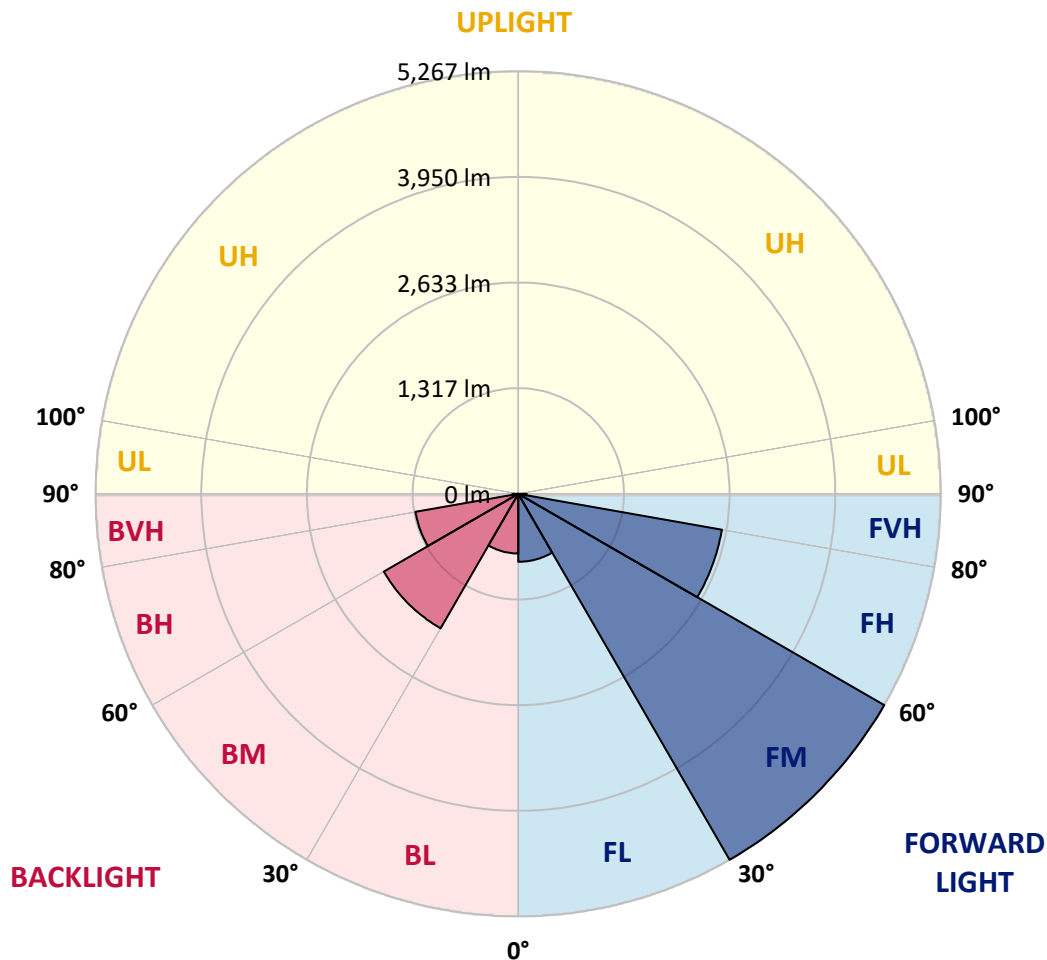
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.1	6.6			
FM (30°-60°)	5266.9	41.0			
FH (60°-80°)	2577.6	20.1			G2/5000
FVH (80°-90°)	104.4	0.8			G2/225
BL (0°-30°)	743.7	5.8	B2/1000		
BM (30°-60°)	1936.0	15.1	B2/2500		
BH (60°-80°)	1300.9	10.1	B3/2500		G3/2500
BVH (80°-90°)	74.8	0.6			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1
2.5°	1406.8	1402.8	1406.2	1406.2	1407.5	1406.8	1411.5	1412.9	1414.8	1418.8	1418.8
5°	1392.9	1392.2	1398.2	1403.5	1408.9	1413.5	1419.5	1428.1	1429.5	1434.2	1440.2
7.5°	1388.2	1384.2	1393.5	1400.1	1412.9	1424.1	1440.2	1454.9	1460.8	1462.9	1474.2
10°	1424.1	1417.5	1426.2	1430.2	1440.8	1452.2	1470.9	1494.1	1500.8	1508.9	1521.5
12.5°	1485.5	1478.2	1490.9	1496.8	1506.9	1516.9	1529.5	1552.2	1555.5	1570.2	1582.2
15°	1569.5	1560.9	1568.9	1576.1	1592.8	1602.2	1614.9	1636.8	1636.8	1648.2	1656.9
17.5°	1683.6	1672.2	1678.2	1680.9	1691.6	1705.5	1726.9	1746.2	1756.2	1752.2	1740.2
20°	1853.6	1839.6	1839.6	1826.2	1822.2	1833.5	1861.6	1888.3	1898.9	1878.2	1848.9
22.5°	2108.9	2089.0	2077.6	2032.3	2014.2	2015.6	2043.5	2076.2	2085.0	2048.3	1982.2
25°	2433.7	2402.3	2386.9	2320.3	2279.6	2244.2	2266.3	2308.3	2320.3	2275.0	2168.3
27.5°	2758.4	2760.3	2745.7	2665.6	2598.3	2533.6	2522.3	2566.3	2579.0	2527.6	2395.6
30°	3213.7	3166.4	3138.3	3042.4	2946.4	2855.6	2809.0	2827.1	2830.3	2769.0	2615.7
32.5°	3606.5	3594.5	3534.4	3450.5	3327.0	3185.1	3107.1	3078.4	3073.1	2985.7	2803.7
35°	4053.9	4047.2	3983.9	3883.8	3750.5	3553.1	3412.4	3330.4	3323.8	3201.1	2989.7
37.5°	4508.6	4508.6	4446.6	4337.2	4199.2	3952.5	3738.5	3608.4	3587.1	3427.1	3179.0
40°	4871.3	4849.3	4860.5	4814.6	4656.6	4394.6	4100.5	3911.8	3883.1	3691.1	3380.4
42.5°	5077.3	5070.0	5137.9	5189.3	5124.6	4915.3	4499.2	4240.5	4200.6	3981.8	3612.4
45°	5123.3	5115.3	5236.6	5424.7	5515.3	5429.3	4932.6	4586.6	4537.9	4285.8	3861.2
47.5°	5017.3	5001.3	5179.3	5476.0	5766.8	5918.0	5402.0	4961.9	4891.3	4581.9	4116.5
50°	4698.6	4683.2	4952.6	5346.7	5851.4	6250.1	5911.4	5360.0	5252.0	4899.3	4374.5
52.5°	4005.8	4013.2	4435.2	4976.6	5740.0	6456.8	6350.1	5779.4	5649.4	5224.0	4616.6
55°	3120.4	3136.4	3655.2	4251.2	5294.6	6425.4	6649.5	6211.4	6082.0	5529.4	4866.6
57.5°	2234.3	2304.9	2791.0	3381.1	4439.2	5928.7	6714.8	6622.1	6496.8	5862.7	5111.3
60°	1448.2	1460.8	1960.9	2555.6	3380.4	5046.0	6582.1	6933.5	6835.5	6202.8	5316.0
62.5°	928.1	936.7	1241.5	1787.6	2432.9	3733.2	6135.4	7068.9	7038.9	6427.5	5512.7
65°	682.0	675.4	834.1	1181.5	1638.9	2302.3	5268.0	7003.5	7062.9	6568.1	5675.3
67.5°	569.4	560.1	638.1	818.1	1207.4	1307.5	3897.8	6578.8	6796.2	6552.1	5794.7
70°	518.8	510.8	558.1	607.4	942.1	875.5	1964.9	5719.4	6054.1	6370.1	5775.4
72.5°	439.4	425.4	490.1	539.4	732.8	671.4	812.1	4393.3	4801.3	5786.7	5503.3
75°	340.7	331.4	386.7	474.7	550.7	524.1	513.4	2667.7	3113.0	4475.3	4814.6
77.5°	270.0	257.4	308.0	370.0	495.4	395.3	374.0	1148.8	1590.2	2857.0	3602.5
80°	203.4	192.0	234.0	292.7	380.7	298.1	242.0	468.7	599.4	1447.5	1811.6
82.5°	144.7	134.7	163.4	214.7	256.0	267.3	148.7	262.7	295.4	558.1	404.7
85°	92.7	86.7	109.4	134.7	162.7	172.0	90.7	137.4	150.7	230.0	168.7
87.5°	50.6	41.3	58.6	62.6	75.3	68.7	43.4	50.0	54.0	83.3	71.3
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°	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1	1416.1
2.5°	1421.5	1423.5	1430.2	1432.1	1436.8	1442.9	1446.9	1450.9	1450.9	1454.9	1454.9
5°	1440.8	1445.6	1459.5	1466.9	1478.9	1490.9	1498.1	1506.9	1512.2	1514.8	1516.2
7.5°	1478.2	1485.5	1505.5	1518.2	1538.8	1555.5	1566.8	1578.9	1581.6	1588.9	1586.2
10°	1528.9	1537.5	1560.2	1584.2	1608.8	1629.5	1640.2	1648.9	1652.2	1653.5	1650.2
12.5°	1586.9	1599.5	1628.8	1658.2	1684.2	1702.2	1704.9	1702.8	1693.5	1685.5	1685.5
15°	1658.2	1669.5	1702.2	1734.2	1759.5	1762.9	1746.2	1735.5	1724.3	1722.2	1722.2
17.5°	1743.5	1749.6	1779.5	1810.9	1812.9	1801.5	1776.8	1766.9	1756.2	1748.9	1749.6
20°	1842.8	1840.9	1862.2	1875.5	1861.6	1826.9	1789.5	1772.8	1762.2	1753.6	1754.2
22.5°	1961.5	1946.3	1943.6	1940.2	1902.9	1830.2	1779.5	1758.2	1741.6	1729.6	1733.6
25°	2134.3	2075.6	2034.9	2012.3	1928.2	1812.2	1747.5	1700.2	1668.9	1648.2	1656.2
27.5°	2350.3	2251.6	2148.9	2093.6	1928.2	1775.5	1670.2	1593.6	1542.2	1520.9	1531.6
30°	2556.4	2452.9	2301.6	2191.6	1923.6	1715.5	1545.5	1438.8	1378.8	1357.5	1370.1
32.5°	2732.3	2619.7	2463.6	2299.0	1912.2	1618.2	1390.8	1272.8	1214.8	1189.5	1202.1
35°	2895.7	2775.7	2626.4	2417.0	1882.2	1475.5	1220.8	1130.8	1066.1	1025.4	1038.8
37.5°	3063.0	2920.3	2780.3	2523.7	1828.2	1308.8	1090.1	1013.4	937.5	882.7	897.5
40°	3245.0	3074.4	2945.0	2587.0	1739.5	1150.2	988.8	918.8	838.1	780.1	791.4
42.5°	3457.7	3259.1	3128.4	2619.7	1618.2	1037.5	922.8	854.1	778.1	730.7	740.0
45°	3679.7	3462.4	3295.8	2619.0	1482.9	984.8	901.5	833.4	749.4	700.1	708.1
47.5°	3912.5	3675.1	3440.4	2576.3	1365.5	992.1	889.4	788.7	696.1	648.1	654.8
50°	4145.8	3907.8	3580.4	2496.3	1315.5	976.1	844.8	726.1	616.7	573.4	576.0
52.5°	4377.2	4155.1	3701.2	2382.3	1264.8	916.8	787.4	644.7	584.0	554.1	554.1
55°	4609.9	4399.9	3832.5	2216.3	1138.2	847.5	691.5	614.1	558.1	530.7	528.1
57.5°	4843.2	4682.6	3957.1	2050.2	978.8	762.1	638.8	576.8	532.1	508.7	504.7
60°	5085.9	5006.0	4085.9	1897.6	821.4	652.7	600.0	546.7	501.4	475.4	473.3
62.5°	5335.9	5362.0	4186.5	1700.9	676.7	586.1	565.4	510.8	466.7	442.1	441.4
65°	5588.0	5705.4	4252.5	1428.1	548.8	522.8	528.1	471.4	426.7	405.4	404.7
67.5°	5778.0	5952.7	4233.9	1080.8	450.1	462.7	481.4	430.1	388.1	371.4	372.1
70°	5799.3	5923.4	4049.9	740.0	376.7	404.1	429.4	389.4	346.0	334.0	334.7
72.5°	5515.3	5523.3	3537.1	483.4	318.7	354.8	374.7	348.1	306.1	294.1	293.4
75°	4770.6	4567.9	2596.9	318.7	266.7	304.7	323.4	304.7	264.0	266.7	257.4
77.5°	3614.5	3235.1	1576.9	226.7	222.7	256.0	281.4	268.0	233.4	262.0	230.7
80°	1862.2	1750.2	703.5	169.3	176.0	204.7	231.3	214.0	184.7	176.0	160.7
82.5°	426.7	496.1	277.4	121.4	127.3	147.4	176.7	160.7	132.6	112.0	110.7
85°	149.3	163.4	122.7	76.1	74.7	92.0	120.0	107.3	90.0	72.1	76.1
87.5°	47.4	62.0	46.0	30.6	32.0	41.3	55.4	50.6	42.0	27.4	28.7
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)