

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: P963526

Luminaire Tested: **NAV-SB3A-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-735-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13768.8 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

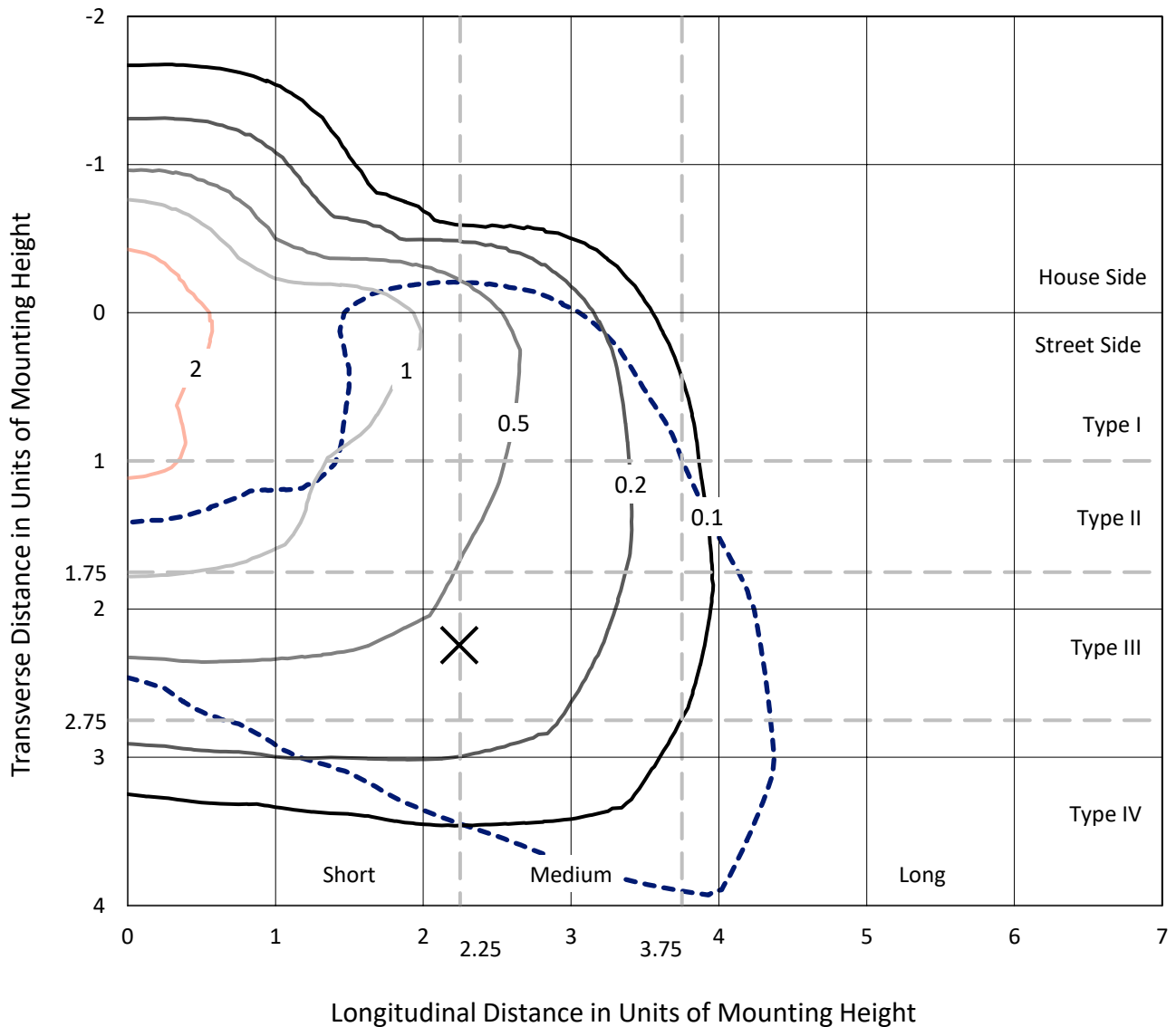
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

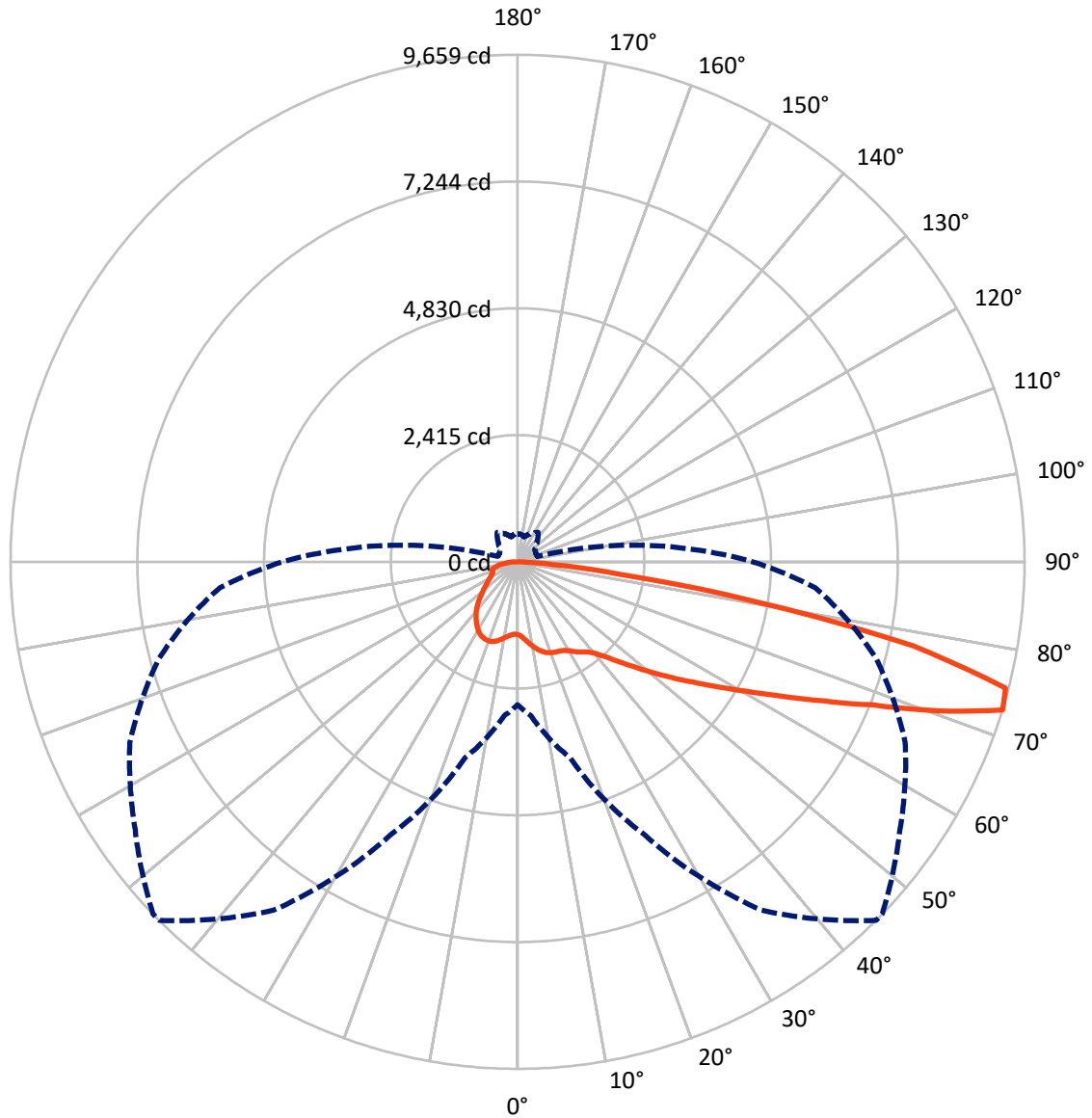
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3112.7	0.0	3112.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10656.2	0.0	10656.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	13768.8	0.0	13768.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	1.0
10°-20°	471.4	3.4
20°-30°	820.0	6.0
30°-40°	1175.4	8.5
40°-50°	1655.1	12.0
50°-60°	2535.1	18.4
60°-70°	3672.5	26.7
70°-80°	2932.7	21.3
80°-90°	365.3	2.7
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°	13768.8	100.0
0°-180°	13768.8	100.0

Coefficient of Utilization



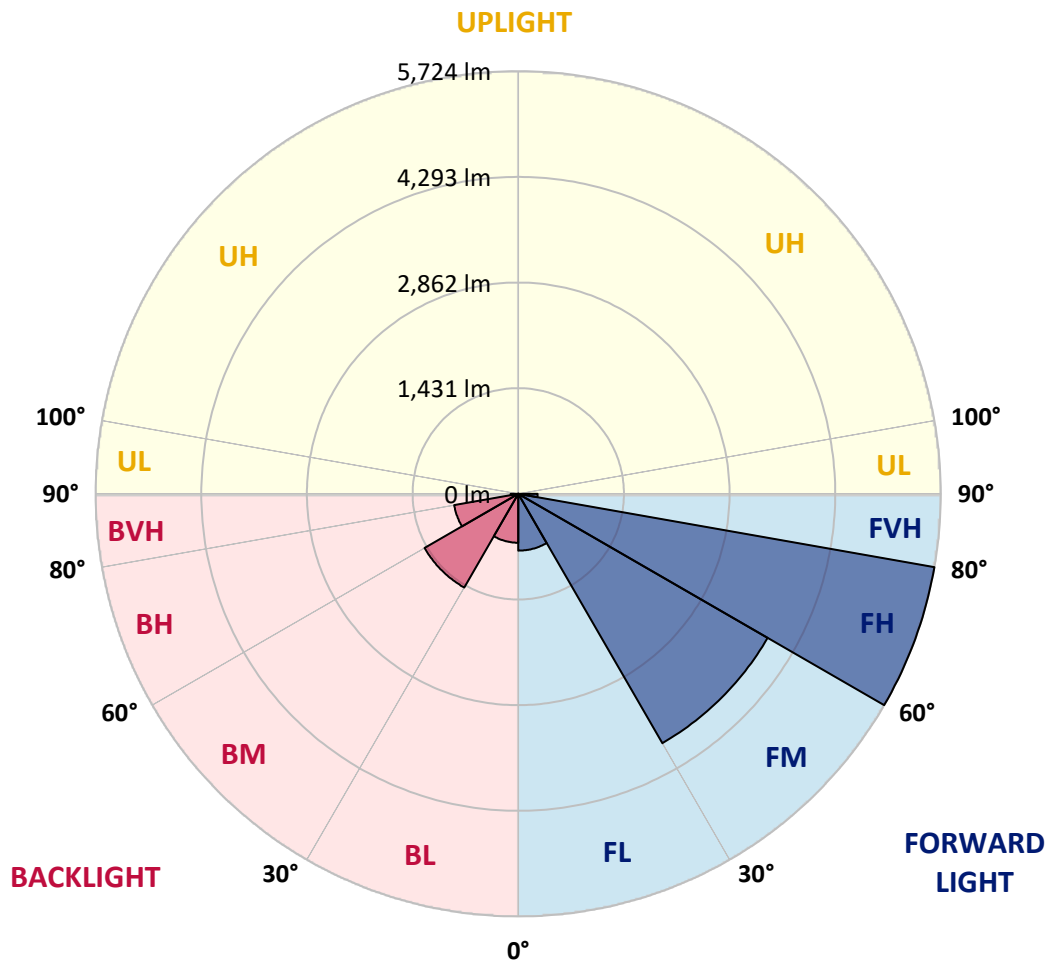
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	770.0	5.6			
FM	(30°-60°)	3900.0	28.3			
FH	(60°-80°)	5724.1	41.6			G3/7500
FVH	(80°-90°)	262.0	1.9			G3/500
BL	(0°-30°)	662.7	4.8	B2/1000		
BM	(30°-60°)	1465.6	10.6	B2/2500		
BH	(60°-80°)	881.1	6.4	B2/1000		G2/1000
BVH	(80°-90°)	103.2	0.7			G2/225
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°	45°	46°	55°	65°	75°	85°
0°	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0
2.5°	1443.4	1452.8	1444.1	1436.1	1432.5	1423.1	1422.4	1416.6	1413.0	1402.8	1399.8
5°	1544.3	1556.6	1542.0	1526.1	1511.6	1488.4	1485.4	1468.8	1450.0	1428.1	1415.8
7.5°	1658.1	1669.0	1652.3	1628.3	1603.0	1564.6	1563.8	1533.3	1503.6	1466.6	1445.6
10°	1757.5	1772.0	1749.5	1716.9	1684.9	1641.4	1636.3	1601.6	1563.8	1516.0	1484.0
12.5°	1845.2	1855.4	1833.6	1793.7	1756.7	1713.2	1706.7	1668.3	1626.2	1571.8	1531.1
15°	1914.9	1927.9	1898.9	1856.1	1816.9	1774.2	1768.3	1733.6	1691.5	1634.2	1582.0
17.5°	1960.5	1971.5	1941.7	1893.8	1856.1	1820.6	1816.2	1787.2	1750.2	1692.2	1636.3
20°	1977.9	1989.6	1958.4	1909.8	1874.9	1847.5	1845.2	1824.2	1798.8	1745.9	1689.3
22.5°	1995.4	2006.2	1965.6	1914.9	1884.4	1867.0	1866.3	1852.5	1842.3	1798.8	1743.7
25°	2065.8	2068.7	2014.2	1940.9	1897.5	1882.2	1881.5	1880.8	1885.2	1851.0	1802.5
27.5°	2126.7	2126.0	2079.5	2010.6	1943.2	1911.2	1910.5	1917.8	1931.5	1903.2	1863.3
30°	2215.8	2208.0	2152.8	2081.0	2019.4	1969.9	1965.6	1959.1	1969.9	1947.5	1924.3
32.5°	2405.2	2379.8	2290.6	2163.0	2082.4	2044.7	2038.9	1998.2	2002.6	1988.8	1977.2
35°	2676.5	2643.1	2524.2	2318.1	2160.8	2107.1	2104.2	2052.7	2044.0	2031.7	2036.0
37.5°	2999.3	2957.9	2819.4	2543.0	2295.7	2179.7	2175.3	2128.8	2093.3	2080.2	2104.9
40°	3323.5	3271.3	3156.6	2817.2	2494.4	2300.7	2287.0	2216.6	2176.0	2154.2	2206.4
42.5°	3638.2	3594.8	3496.8	3124.7	2739.6	2477.7	2447.3	2326.9	2296.4	2276.1	2370.4
45°	3916.7	3877.6	3805.8	3453.3	3026.8	2718.5	2688.8	2492.2	2482.8	2482.8	2619.2
47.5°	4143.0	4134.3	4058.2	3788.4	3365.5	2992.7	2941.2	2722.2	2747.5	2786.7	2972.4
50°	4394.1	4370.1	4288.9	4118.4	3763.7	3306.8	3264.7	3004.3	3099.3	3206.7	3483.1
52.5°	4624.7	4637.7	4547.1	4462.2	4213.5	3657.1	3583.1	3337.2	3542.5	3720.2	4081.4
55°	4861.9	4862.6	4837.2	4825.6	4684.9	4044.4	3963.2	3737.7	4064.0	4284.5	4779.2
57.5°	5084.5	5086.0	5123.8	5226.0	5231.8	4491.2	4399.1	4229.4	4643.6	4868.4	5498.7
60°	5283.3	5293.4	5396.4	5635.9	5712.7	5003.3	4916.3	4810.4	5242.7	5469.0	6255.3
62.5°	5350.0	5387.0	5616.2	5956.4	6187.8	5631.5	5545.9	5482.7	5872.2	6082.7	6887.7
65°	5236.9	5321.7	5764.9	6221.1	6676.6	6377.9	6293.0	6224.0	6526.5	6724.5	7407.1
67.5°	4959.1	5068.6	5756.2	6498.9	7270.0	7275.8	7196.7	7035.0	7227.9	7304.0	7576.1
70°	4227.2	4391.1	5249.2	6602.6	7951.0	8503.8	8427.7	8011.3	7927.9	7559.4	7100.3
72.5°	2723.6	2944.1	3865.3	5748.9	8102.6	9659.2	9654.9	8892.6	8149.1	7063.3	5694.6
75°	993.7	1128.6	1795.9	3608.5	6801.4	9600.5	9628.7	8741.7	7438.9	5456.0	3547.6
77.5°	361.9	396.1	586.1	1386.8	4183.0	7703.0	7761.7	6988.6	5294.9	2738.1	1405.7
80°	190.0	208.9	300.3	538.2	1792.3	4574.7	4666.7	4153.2	2488.6	824.7	421.4
82.5°	105.2	113.9	168.3	292.3	807.3	1956.2	2011.4	1640.7	875.5	349.6	174.0
85°	56.6	60.2	79.0	159.6	394.6	678.1	693.4	490.4	348.9	205.3	84.2
87.5°	16.7	20.3	26.1	50.7	154.5	152.3	155.9	97.2	137.9	103.7	27.6
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°	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0	1389.0
2.5°	1395.5	1393.4	1385.4	1381.8	1377.4	1376.7	1380.3	1381.0	1381.8	1382.5	1385.4
5°	1408.6	1401.4	1394.1	1389.7	1391.2	1391.9	1399.1	1404.2	1407.8	1410.8	1412.2
7.5°	1434.0	1428.1	1415.8	1415.1	1417.3	1423.8	1433.3	1444.8	1451.4	1456.4	1458.0
10°	1471.7	1460.8	1446.3	1448.5	1452.8	1462.3	1481.8	1491.3	1502.1	1511.6	1509.4
12.5°	1510.1	1500.7	1484.0	1485.4	1492.7	1509.4	1528.3	1539.9	1547.1	1554.4	1557.3
15°	1560.2	1543.5	1525.4	1525.4	1538.4	1556.6	1565.3	1574.7	1579.0	1587.0	1589.9
17.5°	1611.7	1589.9	1566.0	1564.6	1580.4	1589.2	1594.3	1595.7	1597.2	1605.9	1608.7
20°	1663.2	1639.3	1605.1	1602.3	1605.9	1604.4	1603.7	1602.3	1604.4	1615.3	1619.7
22.5°	1714.0	1686.4	1639.3	1626.2	1616.0	1602.3	1601.6	1600.8	1602.3	1613.1	1620.4
25°	1773.5	1740.0	1677.0	1637.7	1603.7	1584.9	1587.0	1587.7	1589.2	1597.9	1609.6
27.5°	1838.0	1801.0	1711.7	1634.2	1572.6	1559.4	1555.8	1558.0	1563.1	1576.9	1590.7
30°	1902.5	1859.0	1743.7	1619.7	1533.3	1515.3	1503.6	1508.7	1524.7	1538.4	1553.7
32.5°	1961.3	1917.8	1769.0	1587.7	1483.3	1455.0	1439.8	1446.3	1462.3	1467.4	1485.4
35°	2030.2	1980.9	1779.9	1537.0	1428.8	1385.4	1365.1	1355.7	1363.7	1358.5	1374.5
37.5°	2107.1	2055.5	1778.5	1470.3	1365.1	1315.0	1286.8	1251.2	1234.5	1217.1	1227.9
40°	2221.0	2147.0	1761.1	1389.7	1286.0	1240.4	1189.5	1129.3	1091.6	1057.5	1059.7
42.5°	2376.2	2273.9	1729.2	1301.2	1196.8	1154.0	1085.1	1014.7	955.3	898.7	893.6
45°	2607.6	2440.0	1689.3	1206.9	1100.3	1058.2	983.6	904.5	837.0	764.5	755.8
47.5°	2941.2	2663.4	1651.6	1099.6	998.8	960.3	892.9	819.6	739.8	669.5	661.5
50°	3399.6	2984.0	1616.7	995.2	898.7	869.7	816.0	741.3	660.8	604.2	600.5
52.5°	3982.7	3419.9	1602.3	894.3	805.1	794.3	751.4	681.8	605.7	557.8	554.1
55°	4652.3	3941.4	1602.3	797.9	723.1	726.8	697.0	632.5	566.5	523.7	519.4
57.5°	5335.5	4469.5	1573.3	708.7	653.5	668.7	649.8	593.3	533.8	489.6	482.4
60°	5965.1	4911.9	1455.7	627.4	591.8	615.8	603.5	554.8	482.4	445.4	439.5
62.5°	6448.9	5161.5	1229.4	562.8	541.1	568.7	562.1	504.1	472.9	457.7	452.6
65°	6691.2	5120.8	940.0	505.5	498.3	541.1	527.4	525.1	500.5	483.1	477.2
67.5°	6542.5	4771.2	681.8	463.5	473.7	515.7	568.7	577.4	531.7	497.5	491.8
70°	5890.4	4138.7	507.7	423.6	442.5	516.4	648.4	604.2	521.5	481.6	475.1
72.5°	4481.1	3086.3	393.8	381.5	401.8	520.1	684.0	591.8	492.5	532.4	528.1
75°	2562.6	1694.3	316.2	330.0	351.1	486.0	665.8	560.0	470.0	488.8	488.8
77.5°	977.0	651.4	261.1	279.2	282.2	424.4	636.8	557.8	447.5	436.6	398.2
80°	338.8	254.6	216.2	221.9	218.3	377.2	610.7	485.2	366.3	327.9	316.9
82.5°	138.6	126.9	171.2	163.9	155.2	293.0	493.2	396.8	299.6	264.8	261.9
85°	60.2	80.5	113.2	99.3	89.9	203.1	395.3	335.8	253.2	218.3	217.6
87.5°	12.3	30.4	47.9	45.0	46.4	135.6	280.7	238.6	179.2	134.2	105.2
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)