

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: P963431

Luminaire Tested: **NAV-SB3A-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963431
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-SB3A-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 11263.7 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

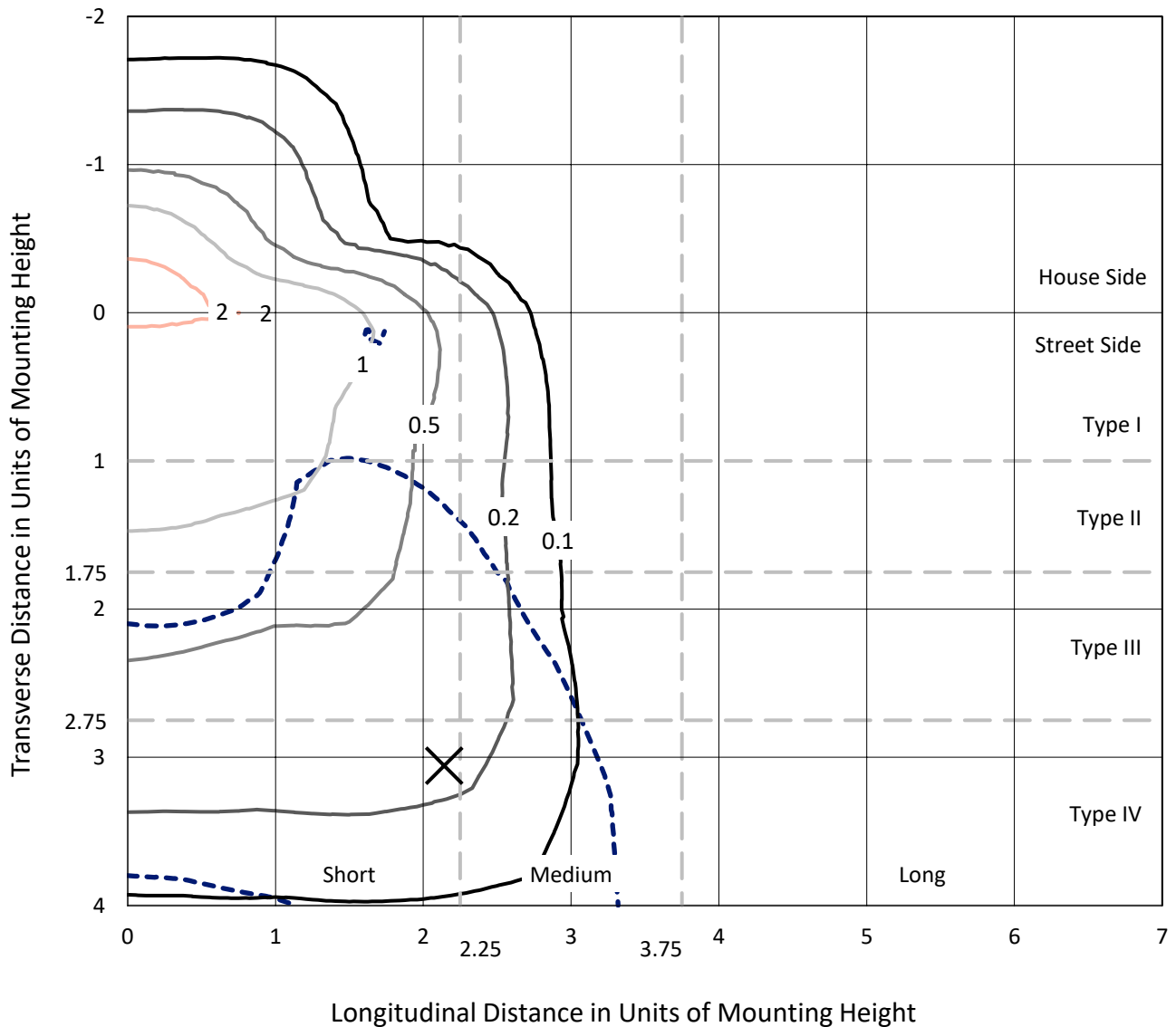
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

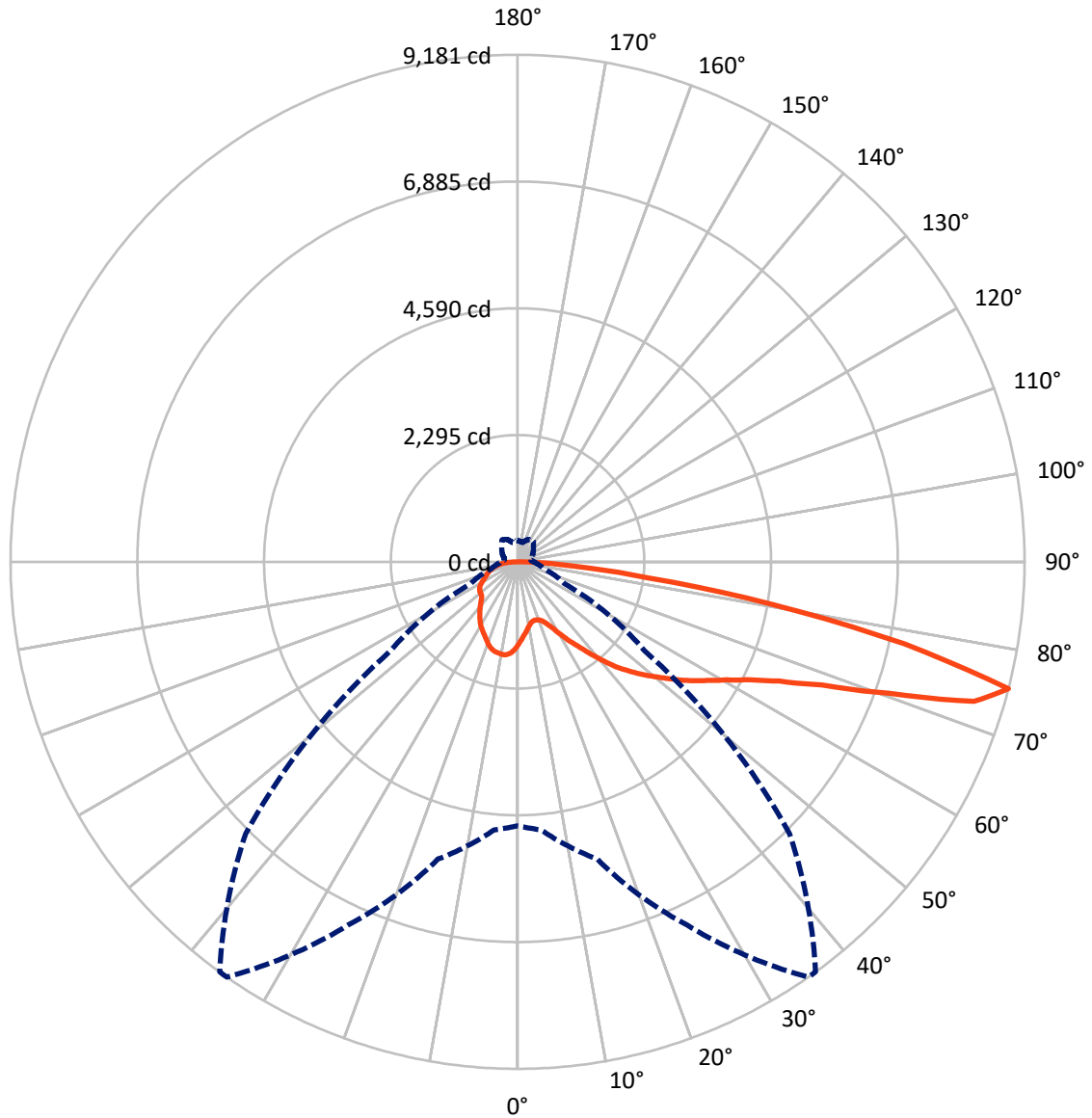
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	2680.5	0.0	2680.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	8583.2	0.0	8583.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	11263.7	0.0	11263.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	1.3
10°-20°	409.9	3.6
20°-30°	688.3	6.1
30°-40°	1069.8	9.5
40°-50°	1587.9	14.1
50°-60°	2192.1	19.5
60°-70°	2659.6	23.6
70°-80°	2197.9	19.5
80°-90°	316.1	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°	11263.7	100.0
0°-180°	11263.7	100.0

Coefficient of Utilization



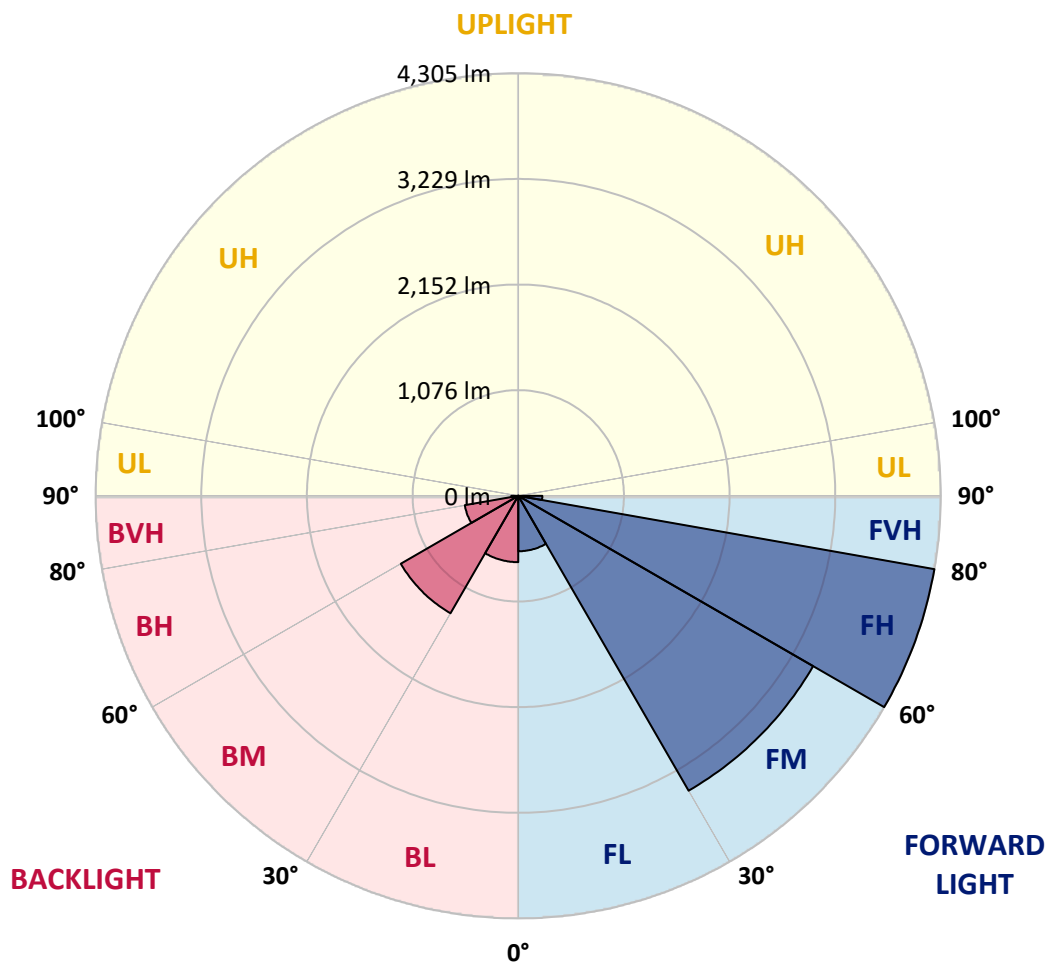
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.9	5.0			
FM (30°-60°)	3468.6	30.8			
FH (60°-80°)	4304.8	38.2			G2/5000
FVH (80°-90°)	244.9	2.2			G3/500
BL (0°-30°)	675.5	6.0	B2/1000		
BM (30°-60°)	1381.1	12.3	B2/2500		
BH (60°-80°)	552.6	4.9	B2/1000		G2/1000
BVH (80°-90°)	71.2	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°	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0
2.5°	1384.1	1392.6	1396.3	1394.4	1403.5	1402.3	1415.1	1430.9	1452.8	1474.2	1505.2
5°	1277.5	1286.6	1294.6	1301.9	1319.5	1325.0	1345.1	1375.6	1415.7	1456.5	1507.7
7.5°	1178.2	1186.1	1198.3	1211.8	1241.6	1247.0	1280.5	1328.0	1384.1	1443.7	1514.3
10°	1097.3	1105.2	1118.0	1133.1	1170.3	1177.0	1219.6	1283.0	1356.1	1431.5	1521.7
12.5°	1062.5	1065.0	1072.3	1087.5	1119.8	1124.0	1171.0	1243.4	1328.6	1422.4	1532.6
15°	1060.8	1065.6	1066.2	1074.1	1101.0	1102.7	1145.9	1217.8	1311.6	1420.5	1549.1
17.5°	1079.0	1082.6	1077.2	1082.0	1104.5	1107.6	1141.7	1205.6	1306.2	1428.5	1577.1
20°	1127.7	1130.8	1114.3	1107.6	1124.0	1126.5	1160.0	1213.6	1311.6	1444.9	1615.4
22.5°	1231.2	1233.1	1192.9	1165.4	1166.7	1167.9	1197.1	1245.8	1332.9	1474.8	1664.2
25°	1392.6	1391.3	1327.5	1274.5	1244.0	1237.3	1256.8	1298.2	1368.8	1514.3	1726.9
27.5°	1581.4	1572.2	1508.3	1429.2	1362.7	1353.0	1348.7	1366.4	1419.9	1566.7	1803.6
30°	1794.5	1786.0	1717.1	1613.7	1521.7	1505.8	1465.6	1456.5	1496.1	1637.9	1910.2
32.5°	2028.3	2022.8	1940.6	1815.2	1692.2	1673.9	1606.3	1582.0	1613.0	1745.8	2058.7
35°	2224.4	2219.4	2151.3	2022.2	1871.8	1849.3	1780.4	1753.1	1768.8	1884.0	2253.0
37.5°	2401.6	2399.1	2340.7	2239.0	2083.7	2056.3	1979.0	1969.8	1966.8	2066.0	2488.6
40°	2566.0	2559.8	2499.0	2445.3	2330.3	2305.3	2237.2	2229.3	2206.1	2290.2	2755.3
42.5°	2748.0	2732.1	2643.9	2619.0	2587.9	2567.2	2526.4	2527.5	2476.4	2542.8	3037.9
45°	2896.5	2887.4	2796.7	2782.2	2815.6	2807.1	2842.4	2851.5	2752.3	2807.7	3331.4
47.5°	3056.1	3047.6	2970.9	2960.5	3051.2	3053.7	3178.5	3181.6	3021.4	3082.9	3625.4
50°	3252.8	3240.6	3164.5	3177.3	3279.0	3288.1	3516.5	3495.8	3269.2	3362.4	3917.1
52.5°	3382.5	3389.8	3373.4	3394.1	3532.9	3541.5	3849.0	3796.0	3514.6	3638.2	4203.3
55°	3478.1	3492.7	3543.8	3591.4	3800.8	3809.3	4162.5	4081.6	3718.0	3894.0	4472.5
57.5°	3601.1	3580.4	3676.0	3768.5	4055.3	4077.9	4467.6	4356.8	3898.3	4114.5	4657.0
60°	3777.6	3763.1	3837.4	3974.3	4340.4	4376.2	4790.3	4604.6	4030.4	4289.2	4692.9
62.5°	4135.8	4099.2	4110.8	4231.9	4699.6	4747.1	5154.4	4820.8	4096.1	4357.4	4500.5
65°	4670.9	4608.2	4549.8	4633.8	5205.6	5252.5	5565.4	4990.6	4071.8	4225.3	3989.6
67.5°	5345.1	5283.0	5211.1	5290.2	5950.9	5988.0	6072.7	5086.3	3880.0	3716.1	3086.6
70°	5900.9	5877.9	5963.7	6289.4	7141.3	7142.5	6723.0	5007.1	3354.5	2634.8	1786.0
72.5°	5827.3	5813.3	6265.7	7272.9	8641.7	8609.4	7338.6	4407.9	2259.7	1188.6	669.2
75°	4780.6	4871.3	5572.1	7255.2	9180.5	9176.3	6961.7	2802.2	934.7	492.6	345.8
77.5°	2563.5	2707.2	3617.5	5356.5	7166.9	7274.6	4894.5	980.3	401.3	315.4	239.3
80°	836.0	961.4	1441.9	2727.3	4657.0	4636.9	2097.7	384.8	274.6	223.4	165.6
82.5°	355.0	369.6	644.2	1287.8	2390.0	2352.8	668.0	221.0	193.0	152.8	102.3
85°	138.8	155.3	284.3	595.5	1035.1	1012.6	241.1	109.6	123.6	99.8	60.9
87.5°	45.7	55.5	101.7	204.0	322.2	310.6	59.0	37.7	53.6	45.7	21.9
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°	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0	1501.0
2.5°	1513.7	1523.5	1535.0	1552.2	1566.7	1578.9	1591.7	1599.6	1602.7	1611.8	1611.2
5°	1524.7	1546.0	1574.6	1602.7	1630.1	1646.5	1661.1	1668.4	1675.2	1680.0	1681.2
7.5°	1542.9	1570.4	1615.4	1652.0	1675.2	1688.5	1698.2	1695.9	1698.2	1699.4	1701.3
10°	1558.8	1597.2	1650.8	1685.5	1703.1	1703.8	1701.3	1692.8	1688.5	1689.1	1690.3
12.5°	1577.7	1620.3	1678.1	1707.3	1712.3	1698.8	1688.5	1673.9	1668.4	1665.9	1664.8
15°	1603.3	1652.0	1708.0	1718.9	1706.8	1689.7	1672.1	1648.3	1636.1	1626.4	1629.4
17.5°	1634.4	1687.9	1731.1	1723.2	1697.0	1669.0	1640.4	1604.4	1579.5	1569.2	1569.8
20°	1677.5	1725.7	1748.8	1714.1	1674.5	1631.9	1583.2	1539.3	1516.2	1505.8	1504.6
22.5°	1729.9	1776.2	1765.9	1698.2	1642.3	1574.0	1513.1	1480.9	1469.3	1462.0	1463.2
25°	1792.6	1832.2	1778.1	1675.2	1589.3	1497.3	1450.5	1440.1	1434.6	1429.2	1429.2
27.5°	1874.2	1895.5	1787.2	1641.0	1506.4	1415.7	1398.7	1400.5	1398.7	1389.5	1391.3
30°	1982.0	1977.7	1795.7	1585.6	1411.4	1342.0	1343.3	1351.2	1352.4	1346.3	1349.3
32.5°	2123.9	2080.6	1799.9	1513.7	1320.7	1277.5	1278.7	1287.2	1293.3	1283.0	1287.8
35°	2295.6	2200.6	1793.2	1423.6	1250.7	1216.0	1206.8	1209.3	1211.1	1201.4	1208.1
37.5°	2496.0	2335.2	1763.4	1323.8	1192.9	1155.7	1136.2	1119.8	1110.1	1101.0	1107.0
40°	2715.7	2481.9	1708.6	1226.3	1128.3	1091.8	1062.5	1031.5	998.7	986.5	991.9
42.5°	2946.0	2632.9	1642.3	1133.1	1054.0	1024.2	993.1	948.1	898.7	873.8	876.8
45°	3184.6	2787.6	1577.1	1041.2	978.0	965.1	929.2	875.0	821.4	789.8	787.3
47.5°	3418.5	2933.8	1481.4	948.6	906.7	920.7	892.7	842.8	783.1	733.1	727.6
50°	3641.9	3070.7	1325.0	855.0	848.8	907.2	880.5	808.6	740.5	676.5	671.1
52.5°	3863.5	3181.6	1124.6	769.7	817.7	903.6	864.7	785.5	702.1	635.1	627.8
55°	4051.7	3238.8	931.6	696.6	772.7	872.6	845.7	758.1	647.9	576.7	570.5
57.5°	4158.8	3192.6	770.9	624.7	710.6	821.4	813.5	699.7	583.3	528.5	521.2
60°	4112.6	3005.0	639.4	562.0	651.5	766.0	757.5	641.8	534.0	482.3	475.0
62.5°	3857.5	2647.6	535.3	507.3	598.0	709.4	701.5	597.4	496.3	446.3	438.4
65°	3343.6	2153.7	454.3	461.6	543.8	641.1	652.7	560.2	466.5	417.7	409.8
67.5°	2550.1	1560.0	390.9	422.0	490.8	574.2	607.7	533.4	441.5	395.1	387.9
70°	1453.4	886.0	337.3	383.7	443.9	512.1	573.0	512.1	414.7	376.3	371.5
72.5°	551.0	406.7	291.7	345.2	398.8	459.7	534.6	478.6	383.7	355.0	350.1
75°	294.1	247.8	245.4	300.2	347.1	408.6	486.6	445.8	360.5	375.0	387.2
77.5°	200.3	175.4	205.2	257.0	290.5	352.0	435.4	395.8	312.4	311.2	286.8
80°	138.8	124.2	166.9	207.0	224.7	295.9	380.0	339.8	254.5	237.5	227.1
82.5°	83.4	81.0	124.8	154.7	158.9	228.4	314.8	285.0	208.3	181.4	182.7
85°	45.7	48.1	79.7	90.7	92.6	159.5	246.6	220.4	160.1	134.6	135.8
87.5°	12.8	16.4	29.2	35.9	44.5	82.8	146.8	130.9	80.4	56.1	56.1
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)