

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: P882551

Luminaire Tested: **NAV-SB2C-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12022 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

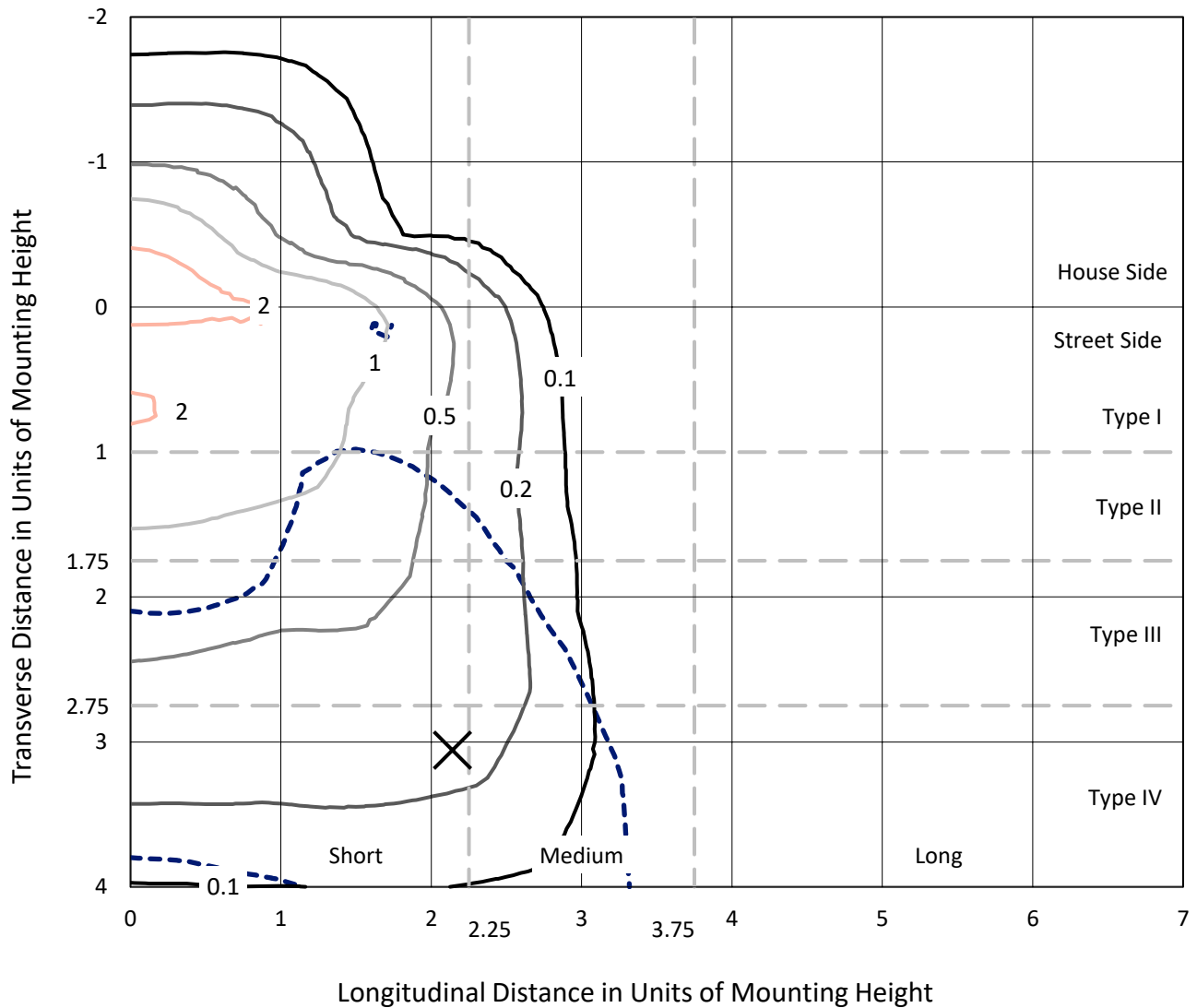
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

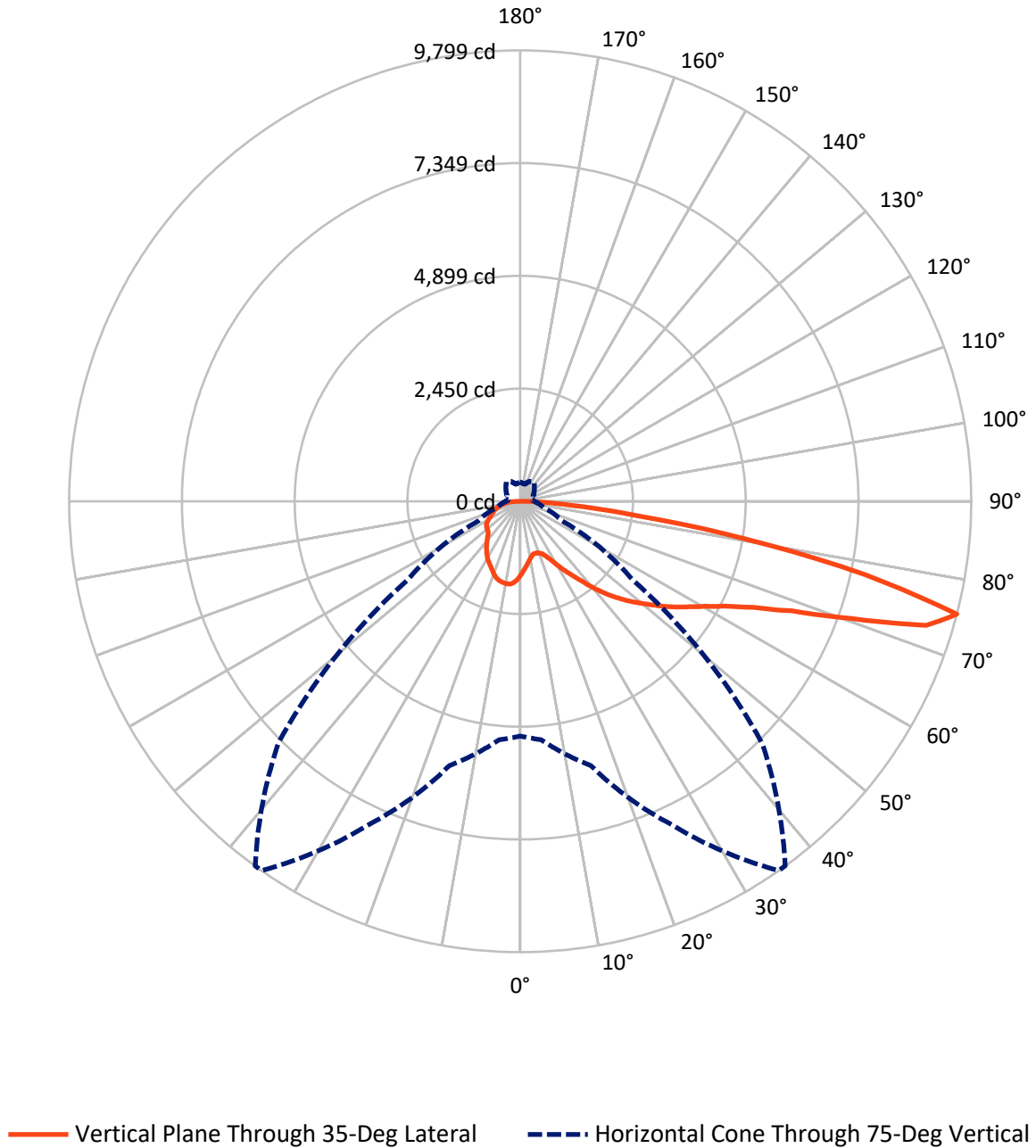
× Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2860.9	0.0	2860.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	9161.1	0.0	9161.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	12022.0	0.0	12022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	1.3
10°-20°	437.5	3.6
20°-30°	734.7	6.1
30°-40°	1141.8	9.5
40°-50°	1694.8	14.1
50°-60°	2339.7	19.5
60°-70°	2838.6	23.6
70°-80°	2345.9	19.5
80°-90°	337.4	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°	12022.0	100.0
0°-180°	12022.0	100.0

Coefficient of Utilization



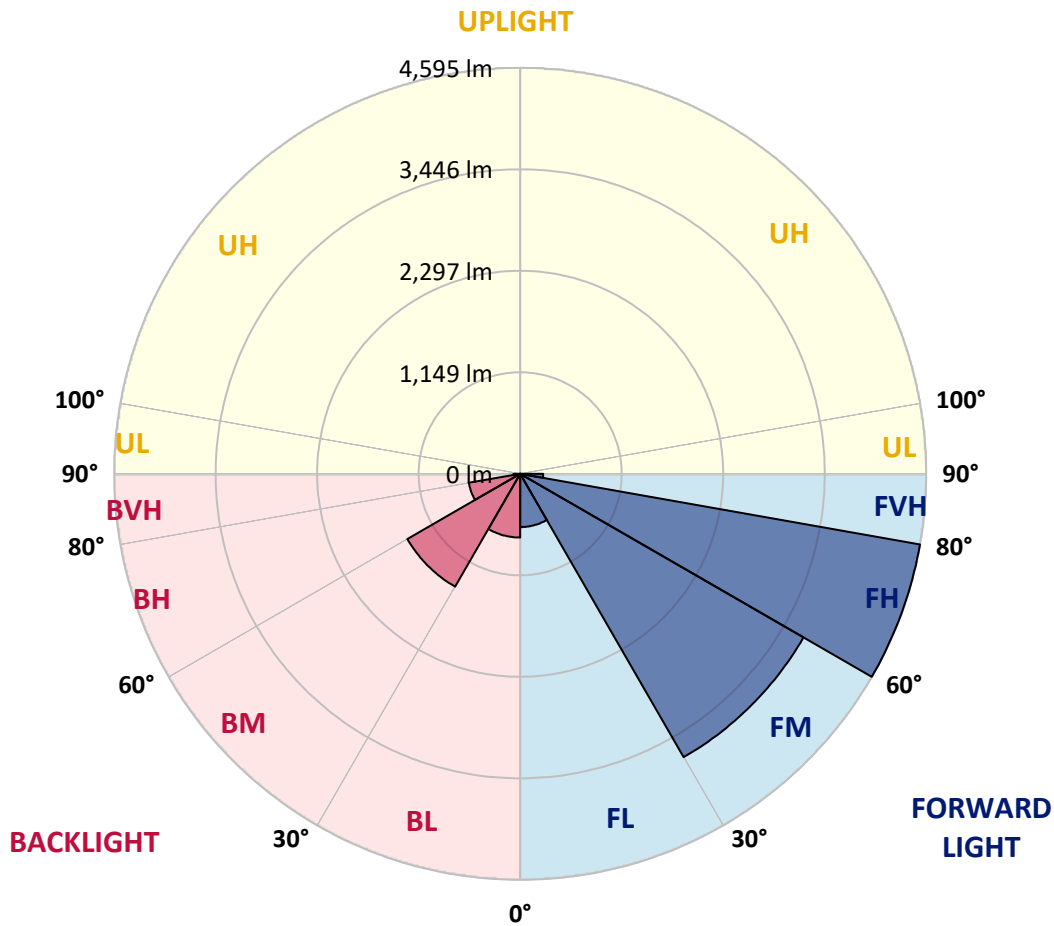
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.9	5.0			
FM (30°-60°)	3702.1	30.8			
FH (60°-80°)	4594.6	38.2			G2/5000
FVH (80°-90°)	261.4	2.2			G3/500
BL (0°-30°)	721.0	6.0	B2/1000		
BM (30°-60°)	1474.1	12.3	B2/2500		
BH (60°-80°)	589.8	4.9	B2/1000		G2/1000
BVH (80°-90°)	76.0	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°	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0
2.5°	1477.2	1486.3	1490.2	1488.3	1498.0	1496.7	1510.4	1527.3	1550.7	1573.4	1606.6
5°	1363.5	1373.2	1381.7	1389.5	1408.3	1414.2	1435.6	1468.1	1511.0	1554.6	1609.2
7.5°	1257.6	1266.0	1279.0	1293.3	1325.2	1331.0	1366.7	1417.4	1477.2	1540.9	1616.3
10°	1171.1	1179.6	1193.2	1209.5	1249.1	1256.3	1301.8	1369.3	1447.3	1527.9	1624.1
12.5°	1134.1	1136.7	1144.5	1160.7	1195.2	1199.7	1249.8	1327.1	1418.1	1518.2	1635.8
15°	1132.1	1137.3	1138.0	1146.4	1175.0	1177.0	1223.1	1299.8	1399.9	1516.2	1653.4
17.5°	1151.6	1155.5	1149.7	1154.9	1178.9	1182.2	1218.6	1286.8	1394.0	1524.7	1683.3
20°	1203.6	1206.9	1189.3	1182.2	1199.7	1202.3	1238.1	1295.3	1399.9	1542.2	1724.2
22.5°	1314.1	1316.1	1273.2	1243.9	1245.2	1246.5	1277.7	1329.7	1422.6	1574.1	1776.2
25°	1486.3	1485.0	1416.8	1360.2	1327.8	1320.6	1341.4	1385.6	1461.0	1616.3	1843.1
27.5°	1687.8	1678.1	1609.8	1525.3	1454.5	1444.1	1439.5	1458.4	1515.6	1672.2	1925.0
30°	1915.3	1906.2	1832.7	1722.2	1624.1	1607.2	1564.3	1554.6	1596.8	1748.2	2038.7
32.5°	2164.8	2159.0	2071.2	1937.4	1806.1	1786.6	1714.4	1688.5	1721.6	1863.3	2197.3
35°	2374.1	2368.9	2296.1	2158.3	1997.8	1973.8	1900.3	1871.1	1888.0	2010.8	2404.6
37.5°	2563.2	2560.6	2498.2	2389.7	2224.0	2194.7	2112.2	2102.4	2099.2	2205.1	2656.2
40°	2738.7	2732.2	2667.2	2610.0	2487.2	2460.5	2387.7	2379.3	2354.6	2444.3	2940.8
42.5°	2933.0	2916.1	2821.9	2795.2	2762.1	2740.0	2696.5	2697.8	2643.2	2714.0	3242.4
45°	3091.6	3081.8	2985.0	2969.4	3005.2	2996.1	3033.8	3043.5	2937.6	2996.7	3555.6
47.5°	3261.9	3252.8	3170.9	3159.8	3256.7	3259.3	3392.5	3395.7	3224.8	3290.5	3869.5
50°	3471.8	3458.8	3377.5	3391.2	3499.7	3509.5	3753.2	3731.1	3489.3	3588.8	4180.8
52.5°	3610.2	3618.0	3600.5	3622.6	3770.7	3779.8	4108.0	4051.5	3751.2	3883.2	4486.3
55°	3712.3	3727.8	3782.4	3833.1	4056.7	4065.8	4442.7	4356.3	3968.3	4156.1	4773.5
57.5°	3843.5	3821.4	3923.5	4022.3	4328.4	4352.4	4768.3	4650.1	4160.7	4391.4	4970.5
60°	4032.0	4016.4	4095.7	4241.9	4632.5	4670.9	5112.8	4914.6	4301.7	4577.9	5008.8
62.5°	4414.1	4375.2	4387.5	4516.8	5016.0	5066.6	5501.4	5145.3	4371.9	4650.7	4803.4
65°	4985.4	4918.5	4856.1	4945.8	5556.0	5606.1	5940.1	5326.6	4345.9	4509.7	4258.2
67.5°	5704.9	5638.6	5561.9	5646.4	6351.5	6391.2	6481.5	5428.6	4141.2	3966.4	3294.4
70°	6298.2	6273.5	6365.2	6712.9	7622.1	7623.4	7175.6	5344.2	3580.3	2812.1	1906.2
72.5°	6219.6	6204.6	6687.5	7762.5	9223.4	9189.0	7832.6	4704.7	2411.8	1268.6	714.2
75°	5102.4	5199.2	5947.3	7743.6	9798.6	9794.1	7430.3	2990.9	997.6	525.8	369.1
77.5°	2736.1	2889.5	3861.1	5717.2	7649.4	7764.4	5223.9	1046.3	428.3	336.7	255.4
80°	892.3	1026.2	1539.0	2910.9	4970.5	4949.0	2238.9	410.7	293.1	238.5	176.8
82.5°	378.9	394.5	687.6	1374.5	2550.9	2511.2	712.9	235.9	206.0	163.1	109.2
85°	148.2	165.7	303.5	635.6	1104.8	1080.8	257.4	117.0	131.9	106.6	65.0
87.5°	48.7	59.1	108.5	217.7	343.8	331.5	63.0	40.3	57.2	48.7	23.4
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°	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0	1602.0
2.5°	1615.7	1626.1	1638.4	1656.6	1672.2	1685.2	1698.8	1707.3	1710.5	1720.3	1719.6
5°	1627.4	1650.1	1680.7	1710.5	1739.8	1757.3	1772.9	1780.7	1787.9	1793.1	1794.4
7.5°	1646.9	1676.1	1724.2	1763.2	1787.9	1802.2	1812.6	1810.0	1812.6	1813.9	1815.8
10°	1663.8	1704.7	1761.9	1798.9	1817.8	1818.4	1815.8	1806.7	1802.2	1802.8	1804.1
12.5°	1683.9	1729.4	1791.1	1822.3	1827.5	1813.2	1802.2	1786.6	1780.7	1778.1	1776.8
15°	1711.2	1763.2	1823.0	1834.7	1821.7	1803.5	1784.6	1759.3	1746.3	1735.9	1739.1
17.5°	1744.3	1801.5	1847.7	1839.2	1811.3	1781.4	1750.8	1712.5	1685.9	1674.8	1675.5
20°	1790.5	1841.8	1866.5	1829.5	1787.2	1741.7	1689.7	1643.0	1618.3	1607.2	1605.9
22.5°	1846.4	1895.8	1884.7	1812.6	1752.8	1680.0	1615.0	1580.6	1568.2	1560.4	1561.7
25°	1913.3	1955.6	1897.7	1787.9	1696.2	1598.1	1548.1	1537.0	1531.2	1525.3	1525.3
27.5°	2000.4	2023.2	1907.5	1751.5	1607.9	1511.0	1492.8	1494.8	1492.8	1483.1	1485.0
30°	2115.4	2110.9	1916.6	1692.3	1506.5	1432.4	1433.7	1442.1	1443.4	1436.9	1440.2
32.5°	2266.9	2220.7	1921.1	1615.7	1409.6	1363.5	1364.8	1373.9	1380.4	1369.3	1374.5
35°	2450.1	2348.8	1914.0	1519.5	1334.9	1297.9	1288.1	1290.7	1292.7	1282.3	1289.4
37.5°	2664.0	2492.4	1882.1	1412.9	1273.2	1233.5	1212.7	1195.2	1184.8	1175.0	1181.5
40°	2898.6	2649.0	1823.6	1308.9	1204.3	1165.3	1134.1	1100.9	1065.8	1052.8	1058.7
42.5°	3144.2	2810.2	1752.8	1209.5	1125.0	1093.1	1060.0	1011.9	959.3	932.6	935.9
45°	3399.0	2975.3	1683.3	1111.3	1043.7	1030.1	991.8	933.9	876.7	842.9	840.3
47.5°	3648.6	3131.2	1581.2	1012.6	967.7	982.7	952.8	899.5	835.8	782.5	776.6
50°	3887.1	3277.5	1414.2	912.5	906.0	968.4	939.8	863.1	790.3	722.0	716.2
52.5°	4123.6	3395.7	1200.4	821.5	872.8	964.5	922.9	838.4	749.3	677.8	670.1
55°	4324.5	3456.8	994.4	743.5	824.7	931.3	902.7	809.1	691.5	615.5	609.0
57.5°	4438.8	3407.4	822.8	666.8	758.4	876.7	868.3	746.7	622.6	564.1	556.3
60°	4389.5	3207.3	682.4	599.9	695.4	817.6	808.5	685.0	570.0	514.7	506.9
62.5°	4117.1	2825.8	571.3	541.4	638.2	757.1	748.7	637.6	529.7	476.4	467.9
65°	3568.6	2298.7	484.8	492.6	580.4	684.3	696.7	597.9	497.8	445.8	437.4
67.5°	2721.8	1665.1	417.2	450.4	523.8	612.9	648.6	569.3	471.2	421.8	414.0
70°	1551.3	945.6	360.0	409.4	473.8	546.6	611.6	546.6	442.6	401.6	396.4
72.5°	588.2	434.1	311.3	368.5	425.7	490.7	570.6	510.8	409.4	378.9	373.7
75°	313.9	264.5	261.9	320.4	370.4	436.1	519.3	475.7	384.7	400.3	413.3
77.5°	213.8	187.2	219.0	274.3	310.0	375.6	464.7	422.4	333.4	332.1	306.1
80°	148.2	132.6	178.1	221.0	239.8	315.9	405.5	362.6	271.7	253.5	242.4
82.5°	89.0	86.4	133.2	165.1	169.6	243.7	336.0	304.2	222.3	193.7	195.0
85°	48.7	51.3	85.1	96.8	98.8	170.3	263.2	235.3	170.9	143.6	144.9
87.5°	13.6	17.5	31.2	38.3	47.4	88.4	156.6	139.7	85.8	59.8	59.8
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)