

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: P963554

Luminaire Tested: **NAV-SB3A-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11050.5 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

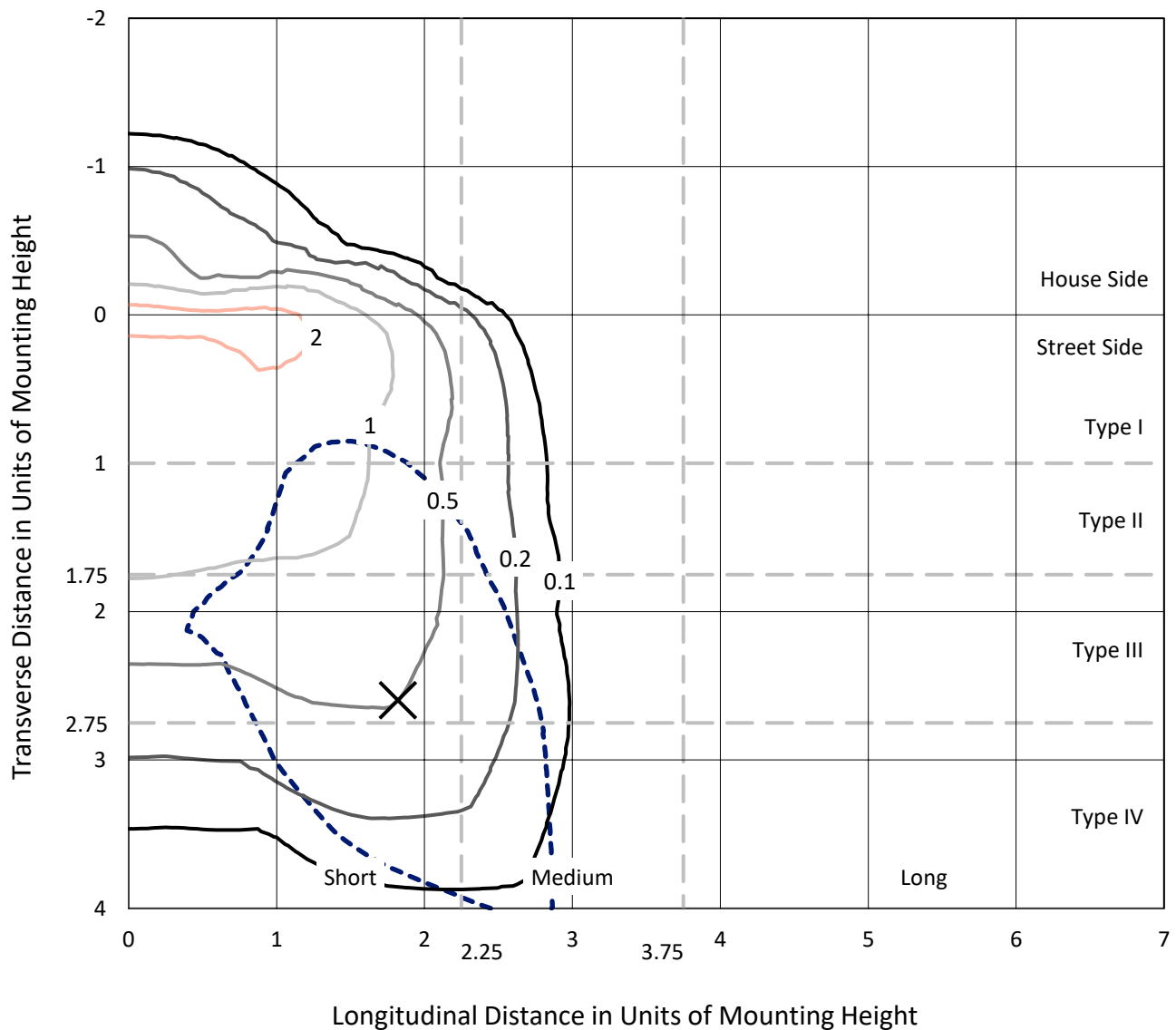


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Iso-Footcandle Lines of Horizontal Illumination

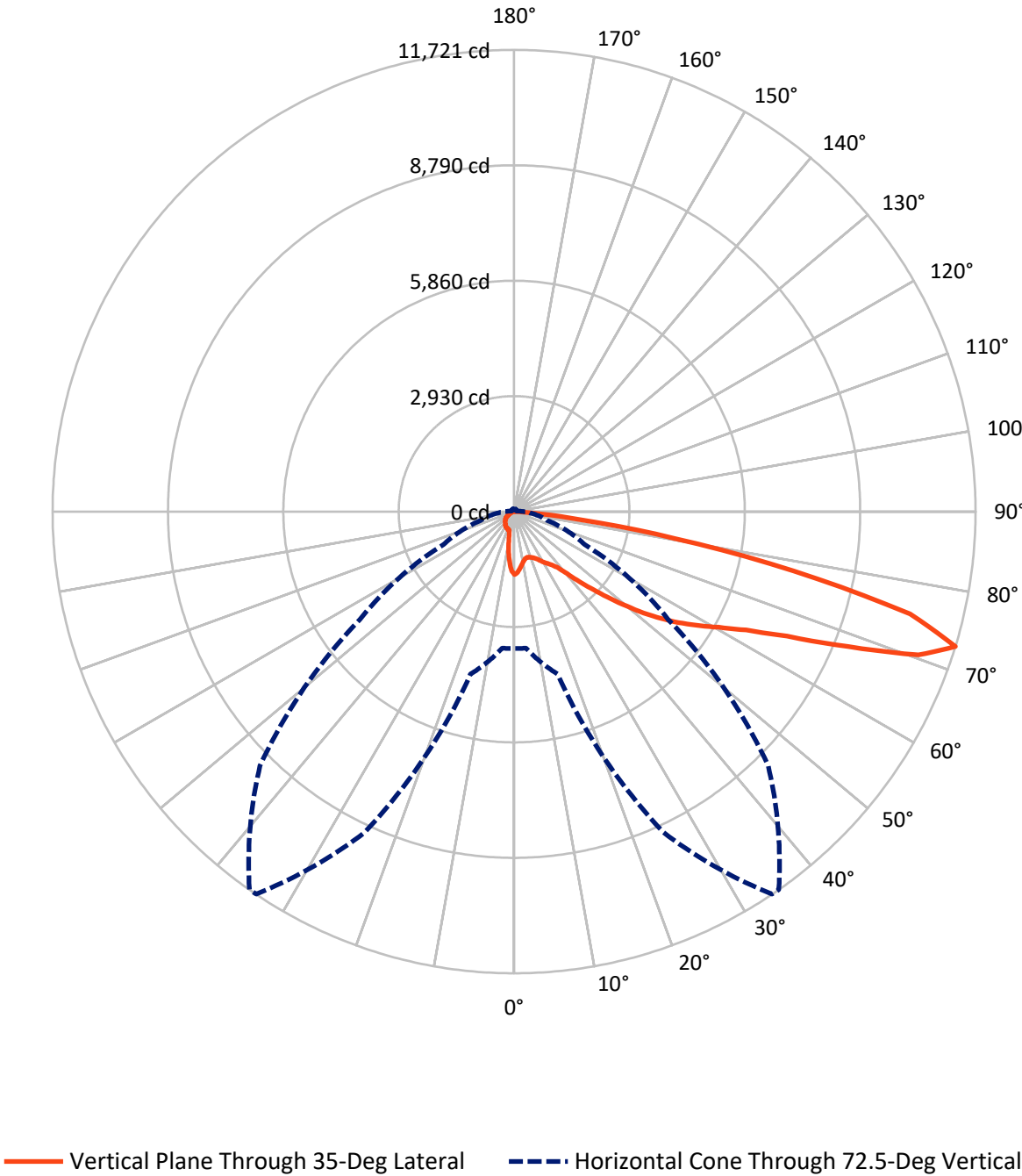
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1243.7	0.0	1243.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9806.8	0.0	9806.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	11050.5	0.0	11050.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	1.2
10°-20°	307.9	2.8
20°-30°	500.2	4.5
30°-40°	834.5	7.6
40°-50°	1578.9	14.3
50°-60°	2508.8	22.7
60°-70°	3103.6	28.1
70°-80°	1929.2	17.5
80°-90°	155.9	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°	11050.5	100.0
0°-180°	11050.5	100.0

Coefficient of Utilization



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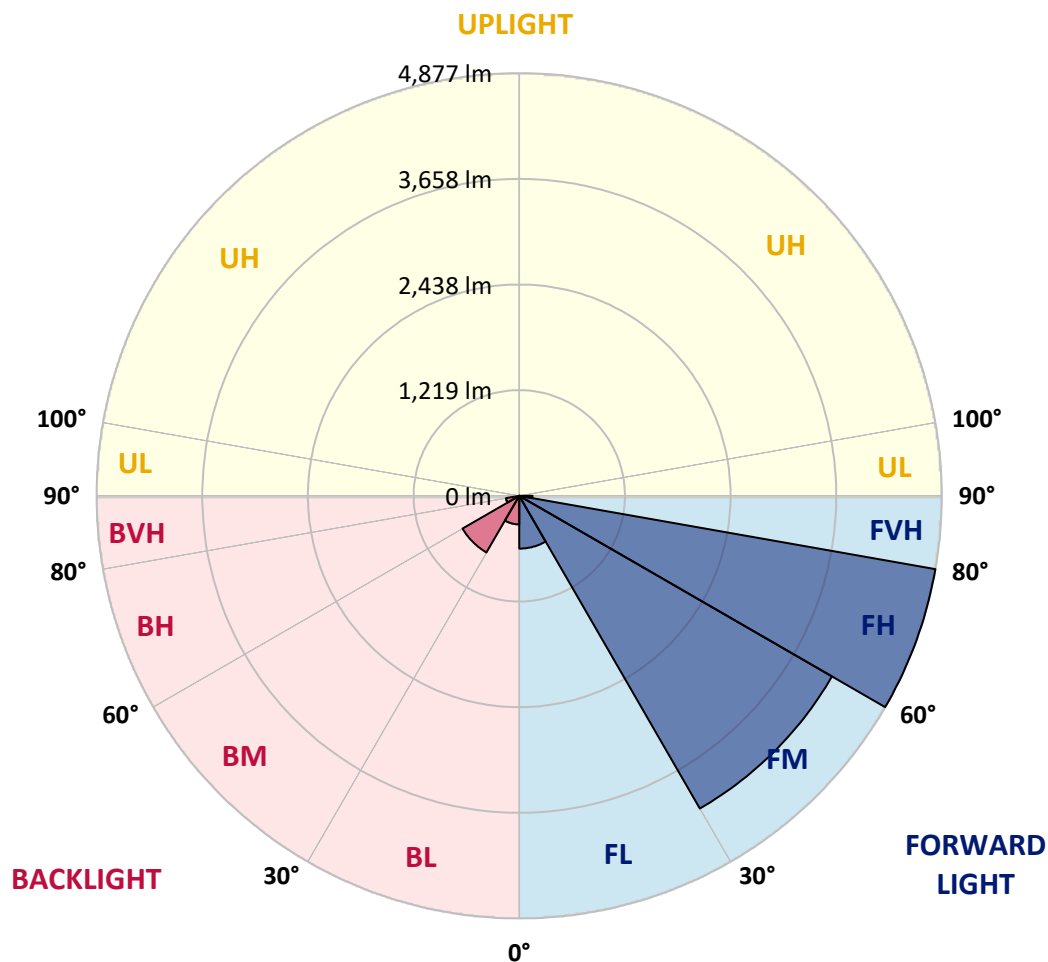
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	609.2	5.5			
FM	(30°-60°)	4167.1	37.7			
FH	(60°-80°)	4876.7	44.1			G2/5000
FVH	(80°-90°)	153.8	1.4			G2/225
BL	(0°-30°)	330.5	3.0	B1/500		
BM	(30°-60°)	755.0	6.8	B1/1000		
BH	(60°-80°)	156.1	1.4	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6
2.5°	1530.3	1543.3	1545.7	1549.8	1549.8	1554.6	1562.7	1574.1	1592.6	1602.4	1608.8
5°	1410.5	1420.2	1432.3	1442.1	1460.7	1463.1	1494.8	1525.5	1568.4	1600.7	1623.5
7.5°	1289.9	1301.2	1317.4	1340.9	1365.2	1372.5	1420.2	1472.0	1540.1	1600.7	1638.9
10°	1204.9	1205.6	1220.3	1243.7	1282.6	1291.5	1349.8	1423.4	1508.5	1591.1	1653.4
12.5°	1157.0	1162.8	1169.2	1187.1	1224.3	1229.9	1292.3	1378.9	1476.9	1585.4	1670.4
15°	1157.0	1161.1	1165.1	1174.0	1204.1	1208.9	1263.9	1350.5	1460.7	1587.8	1697.9
17.5°	1169.2	1175.7	1172.5	1183.0	1214.5	1217.8	1266.4	1342.4	1459.9	1603.2	1740.0
20°	1198.3	1203.2	1196.8	1203.2	1234.8	1241.3	1291.5	1357.9	1473.6	1630.0	1792.7
22.5°	1244.6	1246.9	1231.5	1236.5	1268.8	1276.9	1335.2	1401.6	1506.9	1672.8	1863.1
25°	1302.8	1307.7	1284.2	1289.9	1320.6	1330.3	1397.6	1467.2	1559.5	1731.9	1953.0
27.5°	1370.0	1372.5	1352.2	1351.4	1391.0	1404.9	1472.8	1548.2	1630.0	1806.5	2066.4
30°	1446.9	1454.3	1434.8	1431.5	1481.7	1493.1	1560.3	1647.8	1733.6	1918.2	2227.5
32.5°	1507.7	1513.3	1502.0	1510.1	1561.1	1570.0	1666.3	1788.6	1896.4	2076.9	2446.9
35°	1595.1	1598.4	1572.5	1587.0	1645.3	1668.0	1811.3	1986.2	2101.1	2276.1	2733.6
37.5°	1911.7	1911.7	1801.5	1729.5	1785.3	1805.6	2009.7	2234.8	2353.8	2543.2	3094.7
40°	2349.7	2342.4	2181.3	2034.0	2026.7	2066.4	2292.3	2548.1	2680.1	2864.0	3501.2
42.5°	2816.9	2805.6	2586.2	2440.4	2416.1	2430.0	2618.6	2934.4	3068.7	3255.0	3938.4
45°	3231.5	3228.2	3027.4	2831.6	2787.8	2831.6	3025.9	3386.2	3482.5	3678.5	4374.8
47.5°	3578.9	3578.9	3432.3	3304.4	3281.7	3307.7	3577.2	3887.4	3878.5	4129.5	4799.9
50°	3978.8	3975.7	3836.4	3781.3	3804.8	3841.2	4212.0	4415.3	4288.2	4572.4	5179.6
52.5°	4259.1	4278.5	4230.7	4221.8	4341.6	4404.7	4856.6	4931.9	4654.9	4992.7	5463.9
55°	4480.9	4503.5	4558.6	4621.0	4851.7	4934.3	5480.9	5421.7	4961.8	5357.0	5627.5
57.5°	4795.1	4762.7	4847.7	4970.7	5344.0	5443.7	6085.7	5884.1	5208.8	5652.6	5645.3
60°	5176.5	5181.3	5195.8	5351.3	5835.5	5963.4	6681.7	6321.4	5367.5	5833.9	5447.7
62.5°	5634.7	5642.0	5671.9	5910.9	6495.4	6616.1	7316.4	6679.2	5440.4	5782.8	4937.5
65°	5603.2	5633.9	5968.3	6785.3	7498.7	7617.7	8057.3	6930.2	5330.3	5316.5	4020.2
67.5°	5104.4	5154.5	5714.1	7829.9	9011.2	9143.9	8952.9	6979.6	4855.0	4134.3	2622.7
70°	4450.1	4468.0	5140.8	8769.1	10762.6	10897.0	9754.5	6436.3	3684.2	2306.0	1174.9
72.5°	3475.3	3479.3	4268.7	8986.9	11713.2	11720.5	9125.4	4778.0	1981.3	885.8	408.1
75°	2482.5	2458.3	2859.0	7288.2	10305.0	10387.7	6841.2	2241.3	757.1	418.6	203.3
77.5°	1331.2	1357.9	1617.8	4322.2	7118.9	7259.8	3732.7	646.2	385.4	285.1	134.4
80°	411.3	434.0	663.2	1978.9	4032.3	4117.3	1383.7	287.4	268.9	203.3	88.3
82.5°	129.6	134.4	309.3	831.6	1673.6	1712.6	400.8	162.8	183.8	134.4	51.9
85°	37.2	38.0	137.7	310.2	413.8	421.9	112.5	63.1	105.3	83.4	26.8
87.5°	4.0	12.9	51.9	51.9	36.4	35.7	12.1	13.7	29.9	10.6	4.8
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°	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6
2.5°	1604.8	1605.7	1595.1	1577.3	1557.9	1541.7	1521.4	1505.2	1493.9	1490.7	1496.3
5°	1616.1	1610.5	1580.6	1526.3	1461.5	1405.7	1343.3	1293.9	1261.5	1247.7	1252.7
7.5°	1633.1	1616.9	1551.4	1444.5	1320.6	1210.5	1098.8	1012.1	957.0	929.6	933.6
10°	1647.8	1615.4	1502.9	1326.2	1136.8	970.1	819.4	714.9	656.7	629.1	630.0
12.5°	1661.5	1614.6	1439.6	1186.2	929.6	725.5	585.4	533.6	517.4	511.8	510.1
15°	1687.5	1616.9	1360.3	1025.9	723.0	548.2	497.1	496.3	499.6	497.9	497.1
17.5°	1723.0	1619.4	1270.4	855.9	557.9	483.4	480.9	488.2	493.1	490.7	489.8
20°	1769.2	1629.1	1174.9	687.5	479.4	467.2	472.8	479.4	483.4	479.4	478.6
22.5°	1833.9	1646.2	1070.4	552.2	454.3	457.5	462.4	469.7	473.7	468.0	467.2
25°	1913.4	1672.8	967.6	480.1	442.1	446.2	453.5	461.6	466.4	460.7	459.9
27.5°	2016.2	1715.7	872.9	463.9	430.0	432.3	442.9	455.1	461.6	454.3	454.3
30°	2165.1	1786.2	791.1	471.3	422.7	417.0	431.5	448.5	455.8	449.4	448.5
32.5°	2362.7	1885.8	740.9	482.6	419.4	399.1	413.0	434.8	447.0	442.9	442.9
35°	2621.8	2037.2	721.4	495.6	417.0	380.6	390.3	413.8	434.8	438.9	438.9
37.5°	2936.0	2247.7	727.1	501.2	409.7	365.2	370.0	390.3	417.8	430.8	434.0
40°	3293.0	2493.1	759.5	495.6	401.6	352.2	353.0	368.4	392.7	412.2	418.6
42.5°	3661.5	2779.7	819.4	474.5	394.3	340.9	338.5	349.0	365.2	378.9	384.6
45°	4012.1	3074.5	878.5	445.4	385.4	329.5	323.9	327.9	331.2	336.8	340.1
47.5°	4318.1	3281.7	861.5	418.6	373.3	316.6	306.9	305.2	295.5	294.7	294.0
50°	4529.5	3327.0	765.2	391.9	355.5	302.1	286.6	277.0	259.9	251.8	252.7
52.5°	4596.7	3148.1	625.0	365.2	326.4	282.6	260.8	245.4	224.3	217.0	216.2
55°	4507.6	2797.5	499.6	332.8	285.9	256.7	232.4	212.2	195.2	186.2	186.2
57.5°	4289.8	2351.4	395.1	294.7	242.9	227.6	203.3	183.0	168.4	159.5	157.8
60°	3928.7	1867.1	312.5	249.4	207.3	196.0	170.9	157.8	144.9	134.4	132.0
62.5°	3380.6	1332.8	245.4	197.5	173.3	160.3	145.8	136.0	120.6	106.1	103.6
65°	2638.0	815.4	189.4	144.9	139.3	132.8	123.9	115.0	96.4	81.8	79.3
67.5°	1664.0	386.2	135.2	109.3	110.1	106.9	102.8	95.5	81.8	68.8	67.2
70°	732.8	187.1	89.1	83.4	81.8	81.8	85.0	82.6	69.6	57.5	55.0
72.5°	249.4	100.4	66.4	63.1	59.1	58.3	71.2	68.8	55.9	44.5	42.1
75°	130.4	67.2	48.6	45.3	35.7	42.9	56.7	53.4	39.7	29.1	26.8
77.5°	85.0	47.8	33.2	29.1	20.2	28.3	42.1	37.2	23.5	14.6	12.9
80°	53.4	31.6	19.5	13.7	9.7	15.4	22.7	16.2	8.9	3.3	2.5
82.5°	28.3	16.2	7.3	4.8	4.0	4.8	5.6	4.0	1.6	0.0	0.0
85°	11.4	5.6	2.5	1.6	0.8	0.0	1.6	0.8	0.0	0.0	0.0
87.5°	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)