

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: P959208

Luminaire Tested: **NAV-SB1A-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959208
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-SB1A-722-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3850.9 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

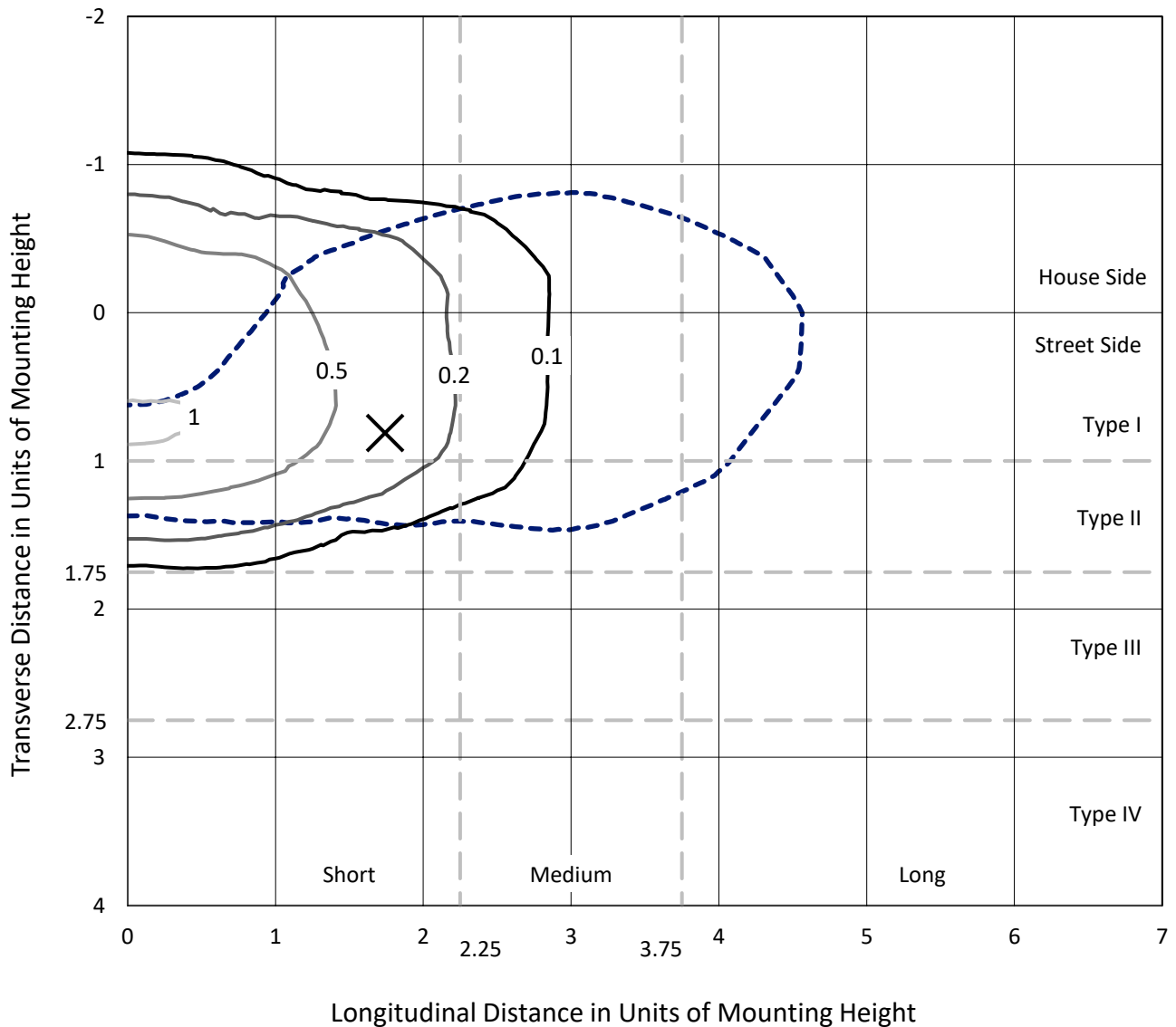
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

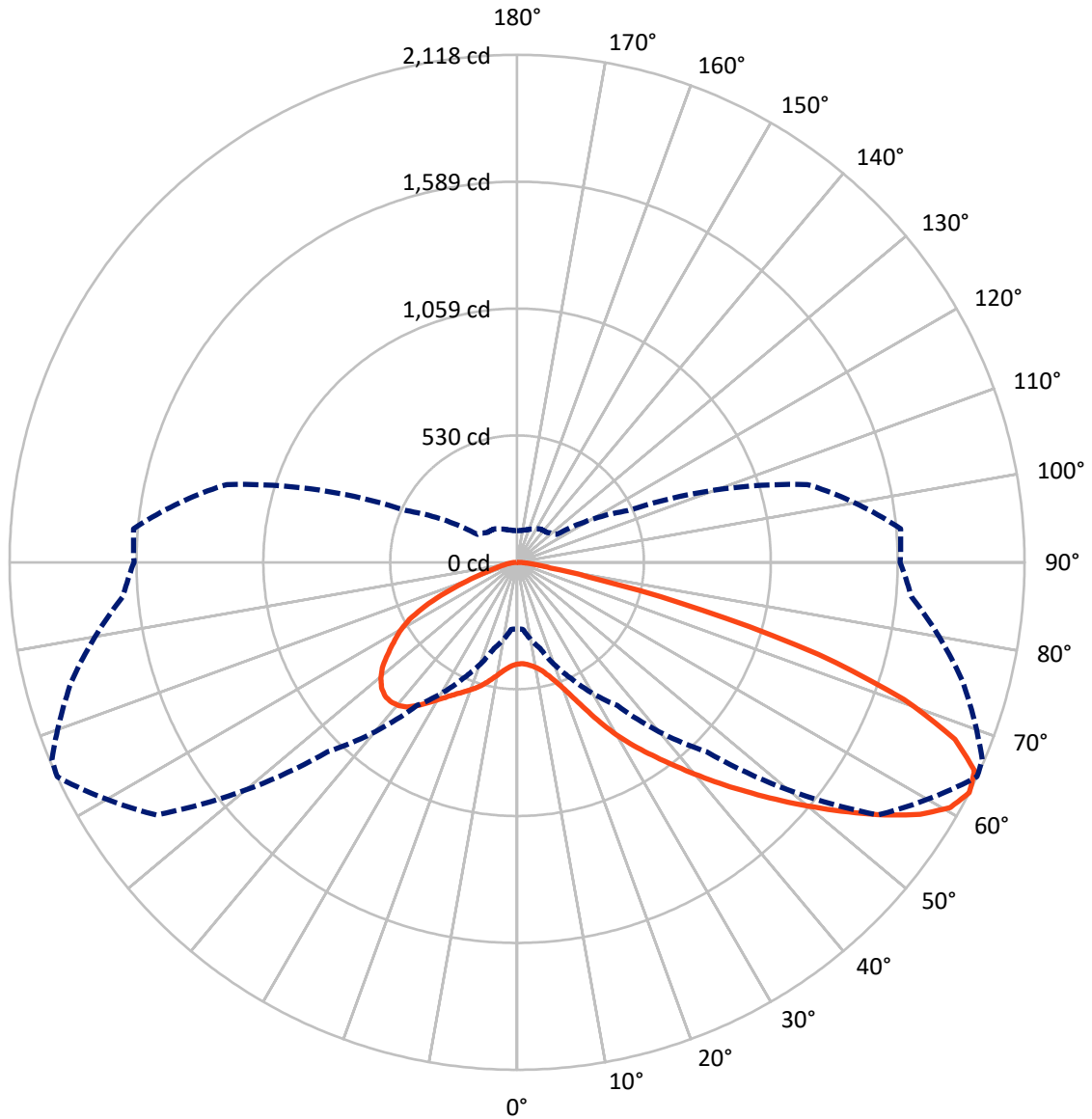
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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
House Side	Lumens	1215.2	0.0	1215.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	2635.7	0.0	2635.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	3850.9	0.0	3850.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	1.1
10°-20°	143.5	3.7
20°-30°	290.9	7.6
30°-40°	503.4	13.1
40°-50°	761.8	19.8
50°-60°	893.2	23.2
60°-70°	748.8	19.4
70°-80°	413.4	10.7
80°-90°	53.7	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°	3850.9	100.0
0°-180°	3850.9	100.0

Coefficient of Utilization

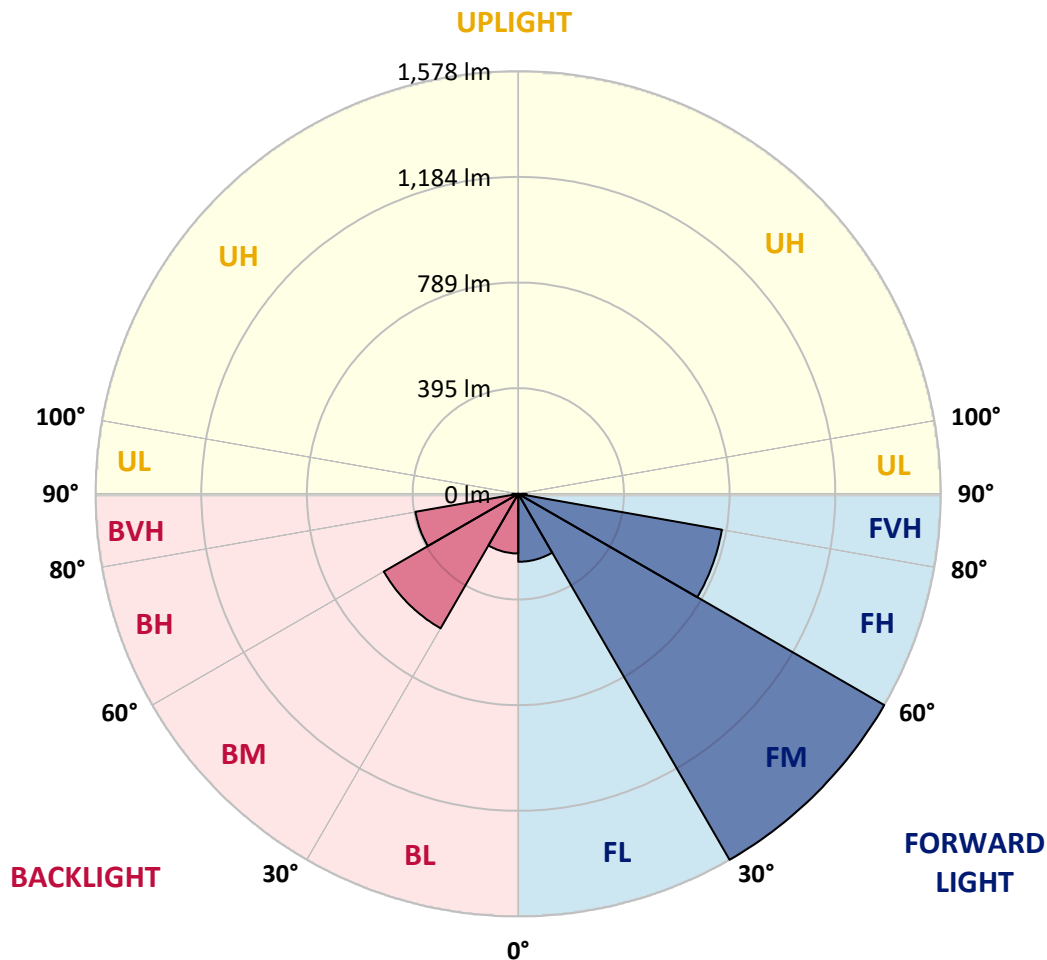


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.8	6.6			
FM (30°-60°)	1578.2	41.0			
FH (60°-80°)	772.4	20.1			G1/1800
FVH (80°-90°)	31.3	0.8			G1/100
BL (0°-30°)	222.9	5.8	B1/500		
BM (30°-60°)	580.1	15.1	B1/1000		
BH (60°-80°)	389.8	10.1	B1/500		G1/500
BVH (80°-90°)	22.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short



REPORT NUMBER: P959208
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4
2.5°	421.6	420.4	421.4	421.4	421.8	421.6	422.9	423.3	423.9	425.2	425.2
5°	417.4	417.2	418.9	420.6	422.2	423.5	425.4	427.9	428.3	429.8	431.5
7.5°	415.9	414.7	417.6	419.5	423.3	426.7	431.5	435.9	437.8	438.3	441.8
10°	426.7	424.8	427.3	428.6	431.7	435.1	440.7	447.7	449.8	452.1	455.9
12.5°	445.2	442.9	446.7	448.5	451.5	454.5	458.3	465.1	466.1	470.5	474.1
15°	470.3	467.7	470.1	472.3	477.3	480.1	483.9	490.5	490.5	493.8	496.5
17.5°	504.5	501.1	502.9	503.7	506.9	511.1	517.4	523.3	526.2	525.0	521.4
20°	555.4	551.2	551.2	547.2	546.0	549.4	557.8	565.8	569.0	562.8	554.0
22.5°	631.9	626.0	622.6	609.0	603.5	603.9	612.3	622.2	624.7	613.8	594.0
25°	729.2	719.9	715.2	695.3	683.1	672.5	679.1	691.7	695.3	681.7	649.7
27.5°	826.6	827.2	822.8	798.8	778.6	759.2	755.8	769.0	772.7	757.4	717.8
30°	963.0	948.8	940.4	911.6	882.8	855.7	841.7	847.2	848.1	829.7	783.8
32.5°	1080.7	1077.1	1059.1	1033.9	996.9	954.4	931.0	922.4	920.9	894.6	840.1
35°	1214.7	1212.8	1193.7	1163.8	1123.8	1064.7	1022.5	997.9	996.0	959.2	895.8
37.5°	1350.9	1350.9	1332.4	1299.6	1258.3	1184.4	1120.2	1081.3	1074.9	1026.9	952.6
40°	1459.7	1453.0	1456.4	1442.7	1395.3	1316.8	1228.7	1172.2	1163.6	1106.1	1012.9
42.5°	1521.4	1519.3	1539.6	1554.9	1535.6	1472.8	1348.2	1270.7	1258.7	1193.1	1082.5
45°	1535.1	1532.8	1569.2	1625.5	1652.7	1626.9	1478.0	1374.3	1359.8	1284.2	1157.0
47.5°	1503.5	1498.7	1552.0	1640.9	1727.9	1773.4	1618.7	1486.9	1465.6	1373.0	1233.5
50°	1407.9	1403.3	1484.0	1602.1	1753.4	1872.9	1771.3	1606.1	1573.8	1468.1	1310.9
52.5°	1200.4	1202.5	1329.0	1491.3	1720.0	1934.8	1902.8	1731.7	1692.8	1565.4	1383.3
55°	935.0	939.8	1095.2	1273.9	1586.5	1925.4	1992.5	1861.3	1822.4	1656.9	1458.3
57.5°	669.5	690.6	836.3	1013.1	1330.2	1776.5	2012.1	1984.3	1946.8	1756.7	1531.6
60°	434.0	437.8	587.6	765.8	1012.9	1512.0	1972.3	2077.6	2048.3	1858.6	1593.0
62.5°	278.1	280.7	372.0	535.7	729.1	1118.6	1838.4	2118.2	2109.1	1926.0	1651.9
65°	204.4	202.4	249.9	354.0	491.1	689.9	1578.5	2098.6	2116.4	1968.1	1700.6
67.5°	170.7	167.8	191.2	245.2	361.8	391.8	1168.0	1971.4	2036.5	1963.4	1736.4
70°	155.4	153.0	167.2	182.0	282.3	262.3	588.8	1713.8	1814.1	1908.8	1730.6
72.5°	131.7	127.5	146.9	161.6	219.6	201.2	243.3	1316.4	1438.7	1734.0	1649.1
75°	102.1	99.3	115.9	142.3	165.0	157.0	153.9	799.4	932.9	1341.0	1442.7
77.5°	80.9	77.1	92.4	110.9	148.4	118.5	112.0	344.2	476.5	856.1	1079.4
80°	60.9	57.5	70.1	87.7	114.1	89.3	72.6	140.4	179.6	433.8	542.8
82.5°	43.4	40.4	49.0	64.4	76.7	80.2	44.6	78.7	88.5	167.2	121.3
85°	27.8	25.9	32.8	40.4	48.8	51.6	27.2	41.2	45.2	68.9	50.5
87.5°	15.2	12.4	17.6	18.8	22.5	20.6	13.0	15.0	16.2	25.0	21.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P959208
 CATALOG NUMBER: NAV-SB1A-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4
2.5°	426.0	426.5	428.6	429.2	430.5	432.3	433.6	434.7	434.7	435.9	435.9
5°	431.7	433.2	437.4	439.5	443.1	446.7	449.0	451.5	453.2	454.0	454.3
7.5°	442.9	445.2	451.1	454.9	461.1	466.1	469.6	473.1	473.9	476.1	475.3
10°	458.1	460.7	467.5	474.7	482.1	488.3	491.5	494.0	495.1	495.5	494.5
12.5°	475.5	479.3	488.1	496.9	504.7	510.0	510.9	510.2	507.5	505.1	505.1
15°	496.9	500.3	510.0	519.7	527.3	528.3	523.3	520.1	516.7	516.1	516.1
17.5°	522.4	524.3	533.2	542.6	543.2	539.9	532.5	529.4	526.2	524.1	524.3
20°	552.3	551.7	558.0	562.0	557.8	547.5	536.3	531.3	528.1	525.4	525.6
22.5°	587.7	583.2	582.4	581.4	570.2	548.4	533.2	526.8	521.8	518.2	519.5
25°	639.5	622.0	609.8	603.0	577.8	543.0	523.7	509.4	500.1	493.8	496.3
27.5°	704.3	674.7	643.9	627.3	577.8	532.1	500.5	477.5	462.1	455.7	458.9
30°	766.0	735.0	689.7	656.7	576.4	514.0	463.1	431.1	413.2	406.8	410.6
32.5°	818.8	784.9	738.2	688.9	573.0	484.9	416.8	381.4	364.0	356.4	360.2
35°	867.7	831.7	787.0	724.3	564.1	442.2	365.8	338.9	319.5	307.3	311.3
37.5°	917.9	875.0	833.1	756.2	547.9	392.2	326.7	303.7	281.0	264.6	269.0
40°	972.4	921.3	882.5	775.2	521.2	344.6	296.3	275.3	251.1	233.8	237.2
42.5°	1036.1	976.6	937.5	784.9	484.9	310.9	276.5	255.9	233.2	218.9	221.8
45°	1102.7	1037.5	987.6	784.7	444.3	295.1	270.1	249.7	224.6	209.8	212.2
47.5°	1172.4	1101.3	1030.9	772.0	409.2	297.2	266.5	236.4	208.6	194.2	196.2
50°	1242.3	1171.0	1072.9	748.0	394.2	292.5	253.2	217.6	184.8	171.8	172.6
52.5°	1311.6	1245.1	1109.0	713.8	379.0	274.7	236.0	193.2	175.0	166.0	166.0
55°	1381.4	1318.5	1148.4	664.1	341.0	253.9	207.2	184.0	167.2	159.1	158.3
57.5°	1451.3	1403.1	1185.7	614.4	293.3	228.4	191.4	172.8	159.4	152.4	151.3
60°	1524.0	1500.0	1224.4	568.6	246.1	195.6	179.8	163.8	150.3	142.5	141.9
62.5°	1598.9	1606.7	1254.5	509.6	202.7	175.6	169.4	153.0	139.8	132.4	132.2
65°	1674.4	1709.6	1274.3	427.9	164.4	156.6	158.3	141.2	127.8	121.5	121.3
67.5°	1731.4	1783.7	1268.6	323.9	134.9	138.7	144.2	128.8	116.2	111.3	111.5
70°	1737.8	1774.9	1213.5	221.8	112.9	121.1	128.6	116.6	103.7	100.1	100.2
72.5°	1652.7	1655.1	1059.8	144.8	95.5	106.3	112.2	104.2	91.7	88.1	87.9
75°	1429.5	1368.8	778.2	95.5	79.9	91.3	96.9	91.3	79.1	79.9	77.1
77.5°	1083.0	969.3	472.5	68.0	66.7	76.7	84.4	80.4	69.9	78.5	69.1
80°	558.0	524.5	210.7	50.7	52.8	61.3	69.3	64.2	55.4	52.8	48.2
82.5°	127.8	148.6	83.1	36.4	38.1	44.2	53.0	48.2	39.8	33.5	33.2
85°	44.8	49.0	36.8	22.8	22.3	27.6	36.0	32.2	27.0	21.6	22.8
87.5°	14.1	18.6	13.7	9.2	9.6	12.4	16.6	15.2	12.6	8.2	8.6
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)