

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: P959866

Luminaire Tested: **NAV-SB1B-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959866
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-SB1B-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6037.2 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 39.8
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



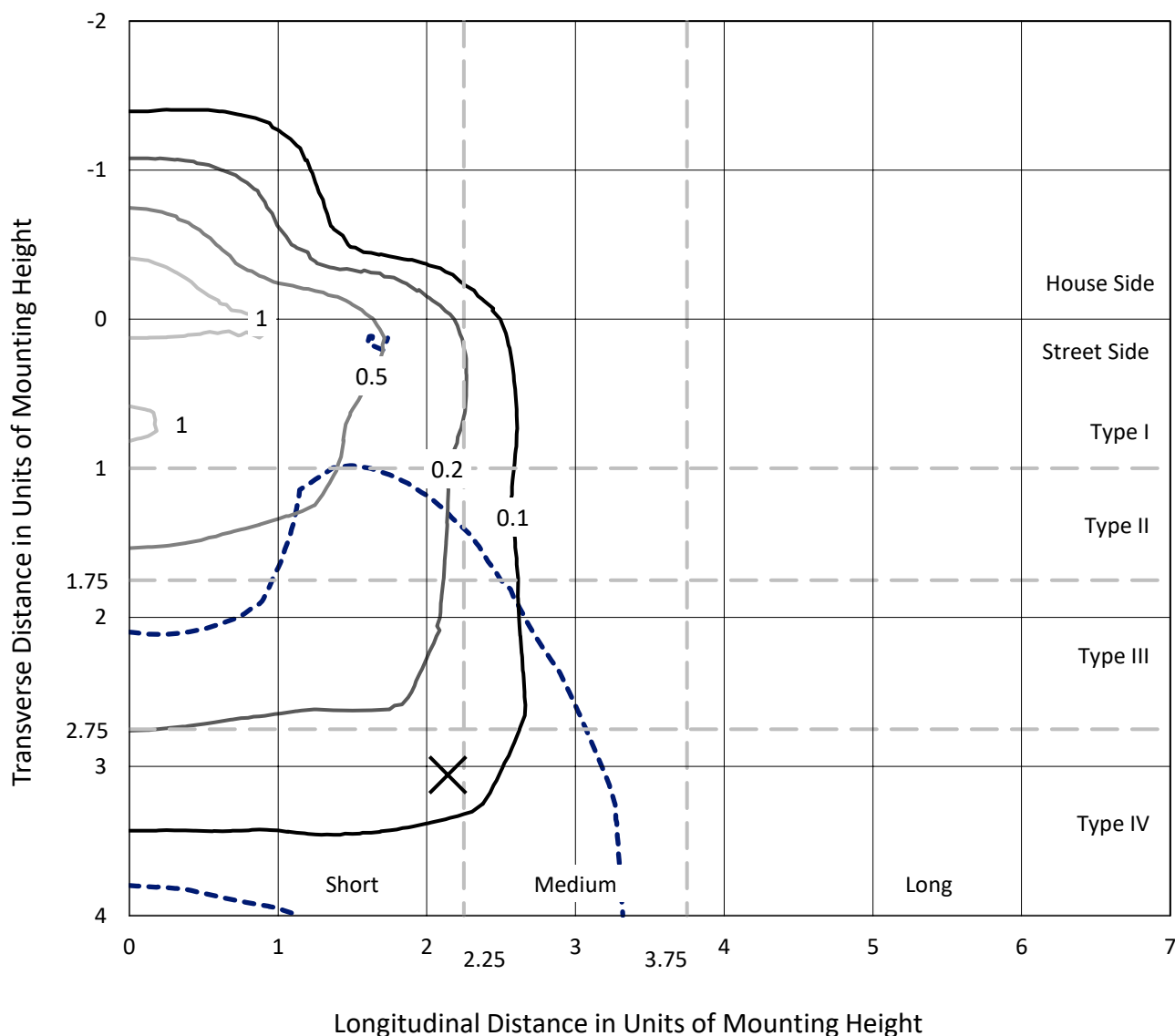
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

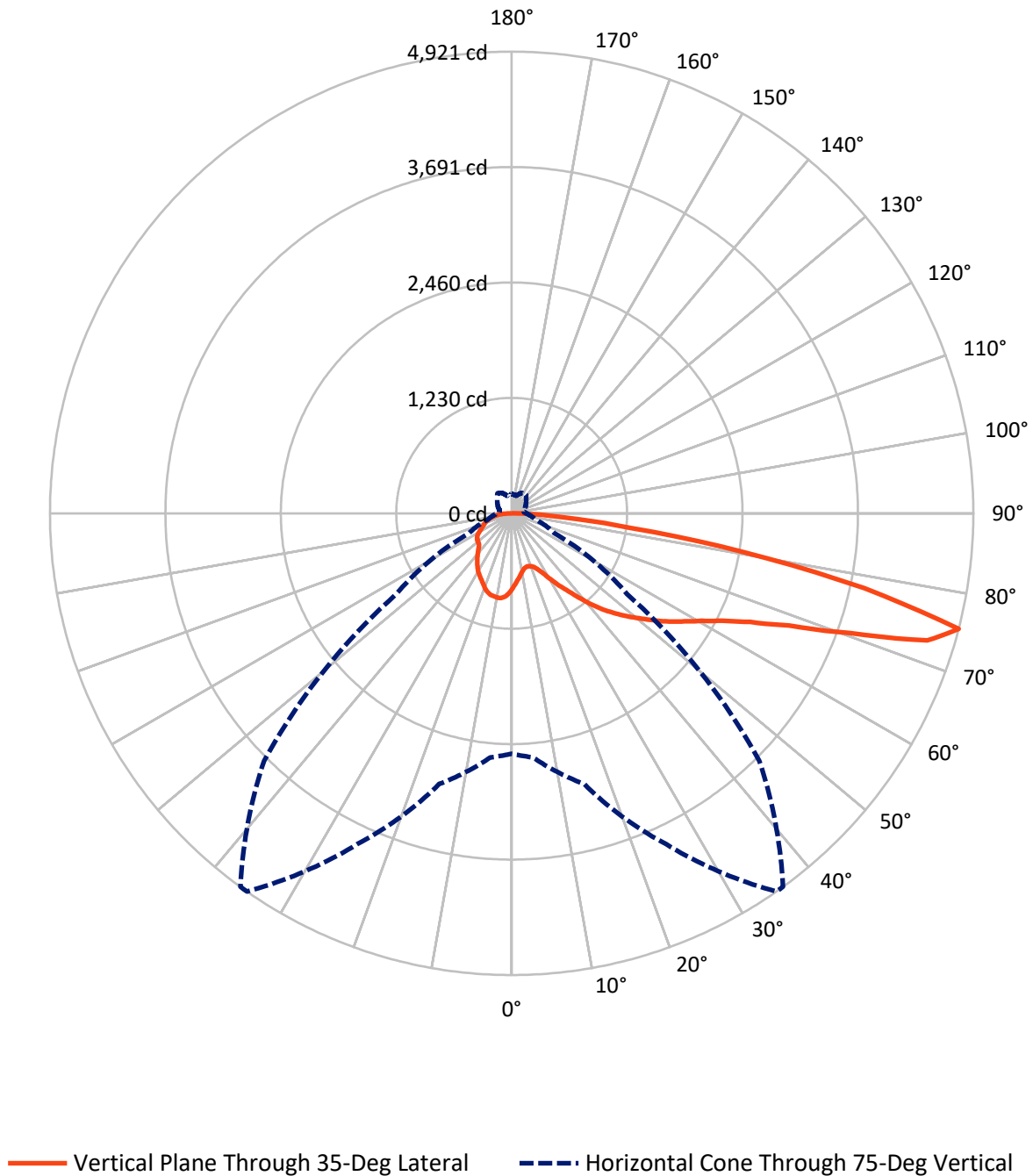


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc

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	1436.7	0.0	1436.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4600.5	0.0	4600.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	6037.2	0.0	6037.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	1.3
10°-20°	219.7	3.6
20°-30°	369.0	6.1
30°-40°	573.4	9.5
40°-50°	851.1	14.1
50°-60°	1175.0	19.5
60°-70°	1425.5	23.6
70°-80°	1178.1	19.5
80°-90°	169.4	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°	6037.2	100.0
0°-180°	6037.2	100.0

Coefficient of Utilization



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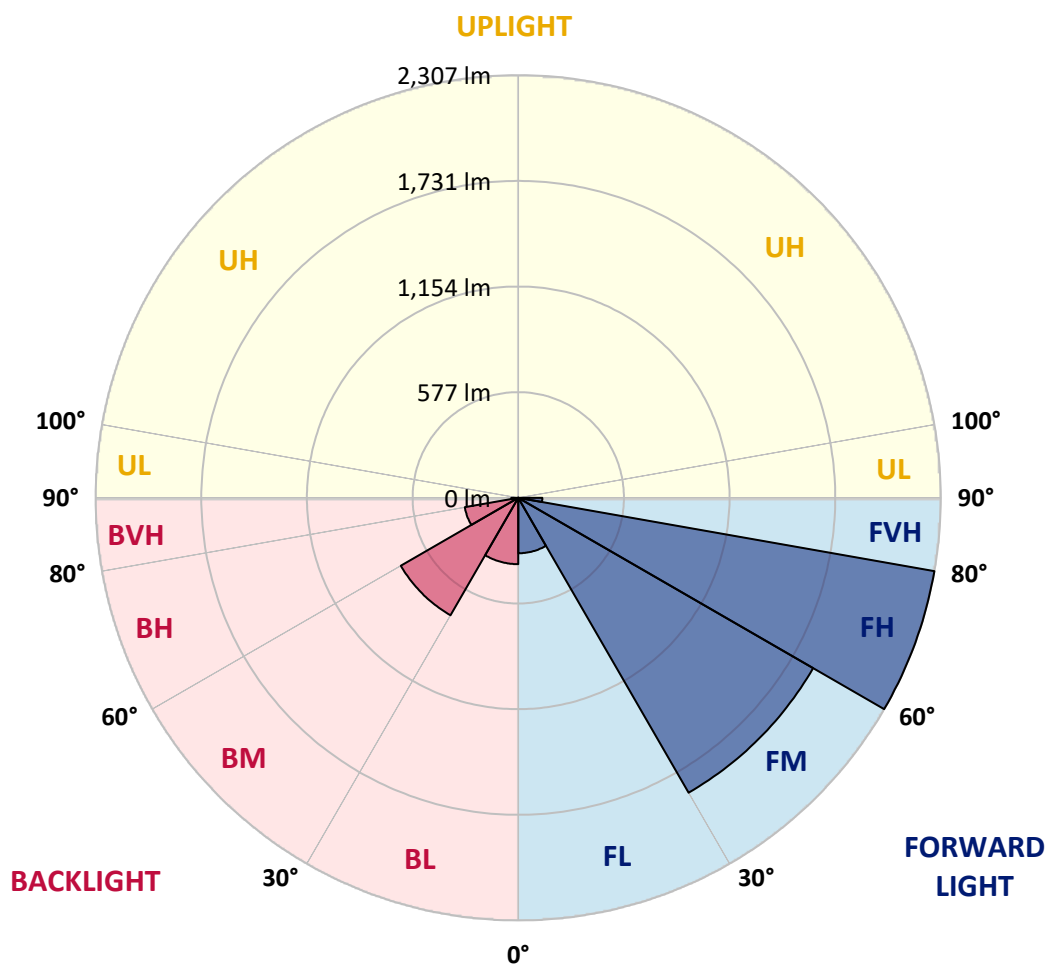
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.8	5.0			
FM	(30°-60°)	1859.1	30.8			
FH	(60°-80°)	2307.3	38.2			G2/5000
FVH	(80°-90°)	131.3	2.2			G2/225
BL	(0°-30°)	362.1	6.0	B1/500		
BM	(30°-60°)	740.3	12.3	B1/1000		
BH	(60°-80°)	296.2	4.9	B1/500		G1/500
BVH	(80°-90°)	38.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	804.5	804.5	804.5	804.5	804.5	804.5	804.5	804.5	804.5	804.5	804.5
2.5°	741.8	746.4	748.4	747.4	752.2	751.6	758.5	767.0	778.7	790.2	806.8
5°	684.7	689.6	693.8	697.8	707.2	710.2	721.0	737.3	758.8	780.6	808.1
7.5°	631.5	635.8	642.3	649.4	665.4	668.4	686.3	711.9	741.8	773.9	811.7
10°	588.1	592.3	599.2	607.4	627.3	630.9	653.7	687.7	726.8	767.3	815.6
12.5°	569.5	570.8	574.7	582.9	600.2	602.5	627.6	666.5	712.2	762.4	821.4
15°	568.6	571.1	571.4	575.7	590.1	591.0	614.2	652.7	703.0	761.5	830.2
17.5°	578.3	580.3	577.4	579.9	592.0	593.7	611.9	646.3	700.1	765.7	845.3
20°	604.4	606.1	597.3	593.7	602.5	603.8	621.8	650.5	703.0	774.5	865.8
22.5°	659.9	660.9	639.4	624.6	625.4	626.0	641.6	667.8	714.4	790.5	892.0
25°	746.4	745.8	711.5	683.1	666.8	663.2	673.6	695.9	733.7	811.7	925.6
27.5°	847.6	842.7	808.4	766.0	730.4	725.2	722.9	732.4	761.1	839.8	966.7
30°	961.9	957.2	920.3	864.9	815.6	807.1	785.6	780.6	801.9	877.9	1023.9
32.5°	1087.1	1084.2	1040.2	972.9	907.0	897.2	861.0	847.9	864.6	935.7	1103.4
35°	1192.3	1189.6	1153.0	1083.8	1003.3	991.2	954.3	939.6	948.1	1009.8	1207.6
37.5°	1287.2	1285.9	1254.6	1200.1	1116.8	1102.2	1060.7	1055.9	1054.2	1107.4	1333.8
40°	1375.3	1372.1	1339.5	1310.7	1249.1	1235.6	1199.0	1194.8	1182.4	1227.4	1476.8
42.5°	1472.9	1464.4	1417.1	1403.7	1387.0	1376.0	1354.1	1354.7	1327.4	1362.9	1628.3
45°	1552.6	1547.6	1499.1	1491.2	1509.1	1504.6	1523.5	1528.4	1475.2	1504.9	1785.6
47.5°	1638.1	1633.4	1592.3	1586.8	1635.5	1636.7	1703.7	1705.3	1619.5	1652.4	1943.2
50°	1743.4	1737.0	1696.2	1703.0	1757.5	1762.4	1884.8	1873.7	1752.2	1802.3	2099.5
52.5°	1813.0	1816.9	1808.1	1819.2	1893.6	1898.2	2063.0	2034.6	1883.8	1950.1	2253.0
55°	1864.3	1872.1	1899.5	1925.0	2037.2	2041.8	2231.1	2187.7	1992.8	2087.1	2397.2
57.5°	1930.2	1919.1	1970.3	2019.9	2173.6	2185.7	2394.6	2335.2	2089.5	2205.3	2496.1
60°	2024.8	2017.0	2056.8	2130.3	2326.3	2345.6	2567.5	2468.0	2160.3	2299.0	2515.4
62.5°	2216.7	2197.1	2203.3	2268.3	2518.9	2544.4	2762.7	2583.9	2195.4	2335.5	2412.2
65°	2503.6	2469.9	2438.7	2483.7	2790.2	2815.3	2983.1	2674.9	2182.4	2264.7	2138.4
67.5°	2864.9	2831.6	2793.1	2835.6	3189.6	3209.6	3254.9	2726.2	2079.6	1991.9	1654.4
70°	3162.8	3150.4	3196.5	3371.1	3827.7	3828.4	3603.5	2683.8	1798.0	1412.2	957.2
72.5°	3123.4	3115.9	3358.3	3898.2	4631.9	4614.5	3933.4	2362.6	1211.1	637.0	358.6
75°	2562.3	2611.0	2986.6	3888.7	4920.7	4918.4	3731.4	1501.9	501.0	264.0	185.4
77.5°	1374.0	1451.1	1939.0	2871.1	3841.4	3899.2	2623.4	525.4	215.0	169.0	128.2
80°	448.1	515.4	772.8	1461.9	2496.1	2485.3	1124.3	206.2	147.2	119.8	88.8
82.5°	190.2	198.1	345.3	690.2	1281.0	1261.1	358.0	118.5	103.4	81.9	54.8
85°	74.4	83.2	152.4	319.2	554.8	542.7	129.3	58.7	66.2	53.5	32.6
87.5°	24.5	29.7	54.5	109.4	172.6	166.5	31.7	20.2	28.7	24.5	11.8
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°	804.5	804.5	804.5	804.5	804.5	804.5	804.5	804.5	804.5	804.5	804.5
2.5°	811.4	816.6	822.8	831.9	839.8	846.2	853.1	857.4	859.1	863.9	863.6
5°	817.2	828.6	844.0	859.1	873.7	882.5	890.3	894.2	897.8	900.5	901.1
7.5°	827.1	841.7	865.8	885.4	897.8	905.1	910.2	909.0	910.2	910.9	911.8
10°	835.5	856.1	884.8	903.4	912.9	913.2	911.8	907.3	905.1	905.4	906.0
12.5°	845.6	868.5	899.4	915.1	917.8	910.6	905.1	897.2	894.2	893.0	892.3
15°	859.4	885.4	915.4	921.4	914.8	905.7	896.3	883.4	877.0	871.8	873.4
17.5°	876.0	904.7	927.8	923.6	909.6	894.6	879.2	860.0	846.6	841.0	841.4
20°	899.1	925.0	937.4	918.7	897.5	874.6	848.6	825.0	812.6	807.1	806.5
22.5°	927.2	952.0	946.5	910.2	880.3	843.7	811.1	793.8	787.5	783.6	784.2
25°	960.8	982.1	953.0	897.8	851.9	802.6	777.5	771.8	769.0	766.0	766.0
27.5°	1004.6	1016.0	957.9	879.6	807.4	758.8	749.7	750.6	749.7	744.8	745.8
30°	1062.3	1060.1	962.5	849.8	756.6	719.3	720.0	724.3	724.9	721.6	723.2
32.5°	1138.4	1115.2	964.7	811.4	707.9	684.7	685.4	689.9	693.2	687.7	690.2
35°	1230.4	1179.5	961.1	763.0	670.3	651.8	646.9	648.2	649.1	643.9	647.5
37.5°	1337.8	1251.6	945.2	709.5	639.4	619.4	609.1	600.2	595.0	590.1	593.4
40°	1455.6	1330.2	915.8	657.3	604.8	585.2	569.5	552.9	535.3	528.7	531.7
42.5°	1579.0	1411.2	880.3	607.4	565.0	549.0	532.3	508.2	481.7	468.3	470.0
45°	1706.9	1494.1	845.3	558.1	524.2	517.3	498.0	469.0	440.2	423.3	422.0
47.5°	1832.3	1572.5	794.1	508.5	486.0	493.4	478.5	451.7	419.7	393.0	390.0
50°	1952.0	1645.8	710.2	458.2	455.0	486.3	471.9	433.4	396.9	362.6	359.7
52.5°	2070.8	1705.3	602.8	412.6	438.3	484.3	463.4	421.0	376.3	340.4	336.5
55°	2171.7	1735.9	499.4	373.4	414.2	467.7	453.4	406.3	347.3	309.0	305.9
57.5°	2229.1	1711.1	413.2	334.9	380.9	440.2	436.0	375.0	312.6	283.3	279.4
60°	2204.3	1610.7	342.7	301.2	349.2	410.6	406.0	344.0	286.2	258.5	254.6
62.5°	2067.5	1419.0	286.9	271.8	320.5	380.2	376.0	320.2	266.0	239.2	235.0
65°	1792.1	1154.4	243.4	247.4	291.4	343.7	349.8	300.2	250.0	223.9	219.7
67.5°	1366.8	836.2	209.5	226.2	263.0	307.8	325.7	285.9	236.6	211.8	207.9
70°	779.0	474.9	180.8	205.6	237.9	274.5	307.1	274.5	222.2	201.7	199.1
72.5°	295.4	218.0	156.3	185.0	213.8	246.4	286.6	256.6	205.6	190.2	187.7
75°	157.6	132.8	131.5	160.9	186.0	219.0	260.8	238.9	193.2	201.0	207.6
77.5°	107.4	94.0	110.0	137.8	155.7	188.6	233.4	212.2	167.4	166.8	153.8
80°	74.4	66.6	89.4	111.0	120.4	158.6	203.7	182.1	136.4	127.3	121.8
82.5°	44.7	43.4	66.9	82.9	85.2	122.4	168.7	152.7	111.6	97.3	97.9
85°	24.5	25.8	42.7	48.6	49.6	85.5	132.2	118.2	85.8	72.2	72.8
87.5°	6.9	8.8	15.7	19.3	23.8	44.4	78.6	70.2	43.0	30.0	30.0
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)