

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: P959198

Luminaire Tested: **NAV-SB1A-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3765.8 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

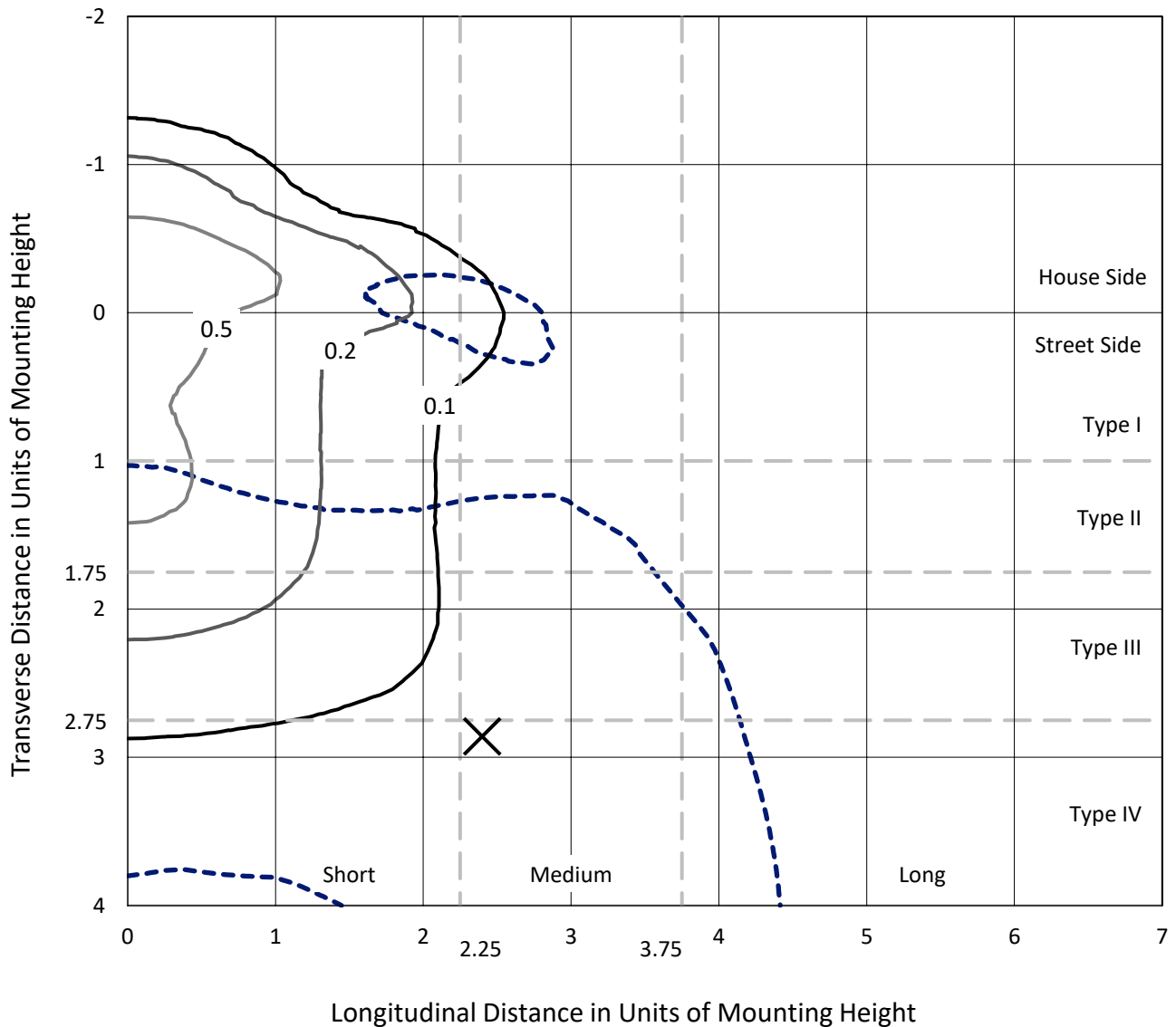
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

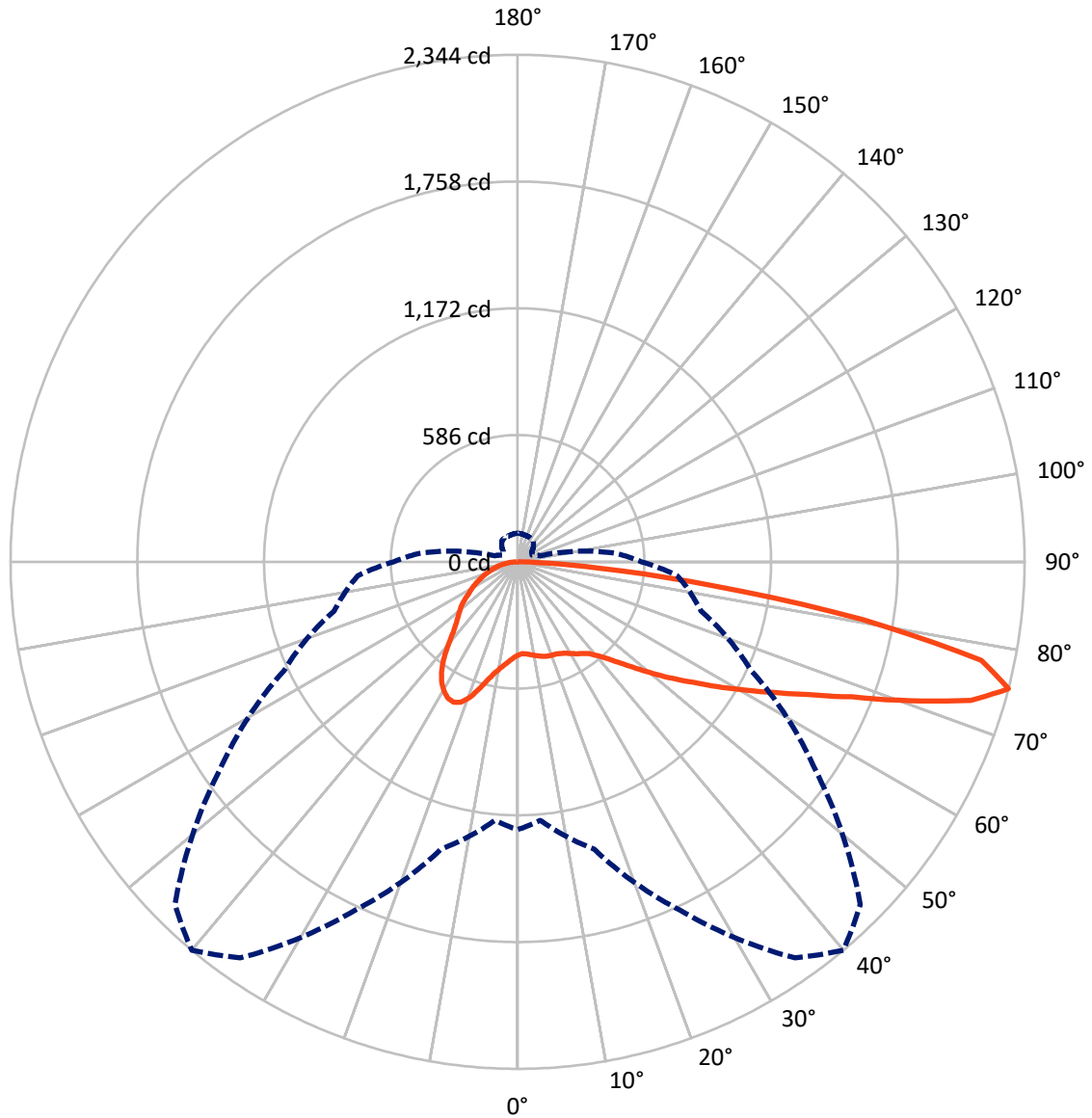
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P959198
CATALOG NUMBER: NAV-SB1A-722-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1166.8	0.0	1166.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	2599.1	0.0	2599.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	3765.8	0.0	3765.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.1
10°-20°	144.3	3.8
20°-30°	263.5	7.0
30°-40°	373.7	9.9
40°-50°	504.7	13.4
50°-60°	678.9	18.0
60°-70°	861.7	22.9
70°-80°	782.0	20.8
80°-90°	114.0	3.0
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°	3765.8	100.0
0°-180°	3765.8	100.0

Coefficient of Utilization

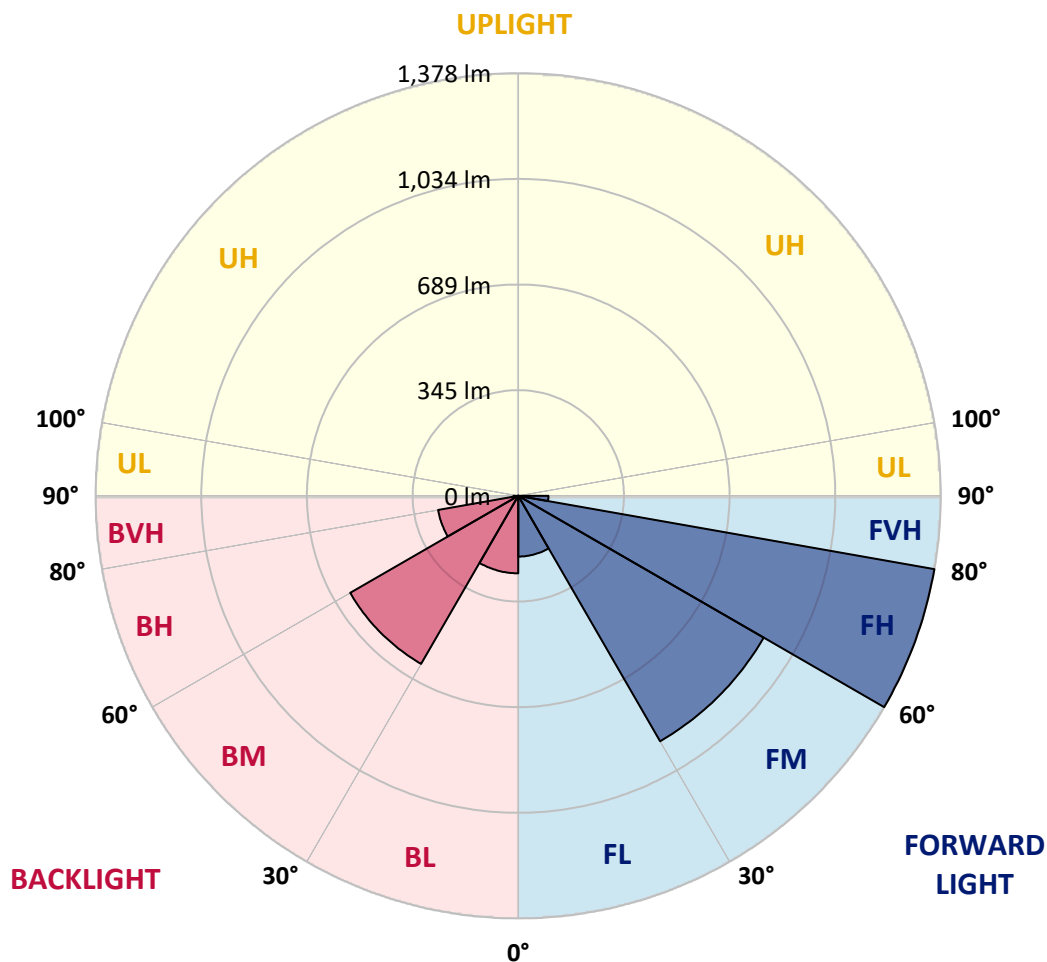


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.1	5.3			
FM (30°-60°)	924.4	24.5			
FH (60°-80°)	1378.2	36.6			G1/1800
FVH (80°-90°)	98.3	2.6			G1/100
BL (0°-30°)	252.7	6.7	B1/500		
BM (30°-60°)	632.9	16.8	B1/1000		
BH (60°-80°)	265.5	7.0	B1/500		G1/500
BVH (80°-90°)	15.7	0.4			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 IV Medium



REPORT NUMBER: P959198
 CATALOG NUMBER: NAV-SB1A-722-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6
2.5°	424.0	426.4	425.9	425.1	425.1	425.3	425.1	426.4	427.8	429.3	431.4
5°	428.4	430.8	429.7	428.7	427.8	427.6	427.0	426.8	427.6	429.5	432.4
7.5°	437.1	439.4	437.6	435.8	434.2	433.5	432.7	431.4	430.8	431.8	436.0
10°	446.6	449.1	446.8	443.6	441.1	440.0	439.2	438.0	437.3	437.8	442.4
12.5°	456.2	458.6	455.6	451.2	447.8	447.2	446.2	445.8	445.6	445.4	450.0
15°	465.1	467.2	463.4	458.2	454.6	453.6	452.6	453.2	454.2	455.4	460.6
17.5°	472.2	474.2	468.6	461.8	458.4	458.0	457.4	459.4	462.2	465.1	471.6
20°	478.6	480.5	473.3	464.2	460.2	460.2	460.4	464.6	468.6	472.9	481.7
22.5°	487.6	489.1	480.3	467.8	462.0	462.4	464.0	468.2	473.1	479.2	491.4
25°	500.9	502.1	491.4	474.6	468.0	469.1	470.6	472.5	477.3	484.3	500.7
27.5°	522.5	523.5	509.3	486.6	476.5	478.6	480.5	479.2	481.3	487.4	508.3
30°	552.9	553.5	535.5	505.3	491.2	492.1	492.5	486.8	482.6	487.4	513.7
32.5°	588.9	588.7	567.2	528.1	507.7	506.8	503.4	492.0	482.2	486.4	518.5
35°	644.5	642.4	614.8	560.1	526.5	520.3	512.3	497.7	484.2	485.3	522.8
37.5°	736.9	730.0	691.9	612.4	554.4	538.6	527.0	507.2	488.5	484.9	527.7
40°	840.9	832.3	790.4	684.1	596.4	571.0	552.1	520.5	495.8	486.8	535.0
42.5°	964.3	952.1	907.0	768.5	649.5	612.7	584.2	537.5	506.4	492.5	545.1
45°	1115.9	1099.7	1035.9	863.9	716.5	667.5	629.3	563.2	522.5	503.7	560.1
47.5°	1269.2	1273.2	1182.2	972.9	796.7	735.0	685.9	602.0	546.1	521.7	584.2
50°	1431.9	1434.7	1327.9	1093.8	887.9	811.3	749.4	645.3	578.8	547.2	620.3
52.5°	1558.9	1559.3	1460.1	1220.2	982.7	895.2	817.9	694.8	616.7	581.3	668.5
55°	1638.5	1637.4	1552.8	1339.8	1091.7	983.3	893.8	751.2	663.1	621.2	729.1
57.5°	1696.2	1693.2	1616.6	1442.7	1208.0	1087.3	979.7	815.1	717.8	668.7	808.7
60°	1718.1	1716.4	1660.0	1531.6	1330.2	1202.4	1078.8	886.6	779.9	724.9	911.2
62.5°	1726.5	1729.9	1702.5	1617.7	1461.0	1329.8	1187.7	972.1	849.8	788.3	1019.3
65°	1756.0	1762.3	1756.6	1730.3	1608.8	1479.1	1332.0	1073.8	926.2	856.5	1132.1
67.5°	1814.6	1820.8	1823.2	1865.1	1789.4	1665.0	1512.2	1200.4	1015.5	927.2	1217.0
70°	1813.2	1811.4	1853.7	1972.4	2015.6	1922.5	1755.1	1356.2	1122.0	985.8	1227.7
72.5°	1650.5	1636.0	1736.1	1971.2	2203.6	2191.3	2051.6	1557.2	1213.8	993.1	1065.4
75°	1238.2	1199.8	1376.6	1776.4	2235.0	2343.9	2240.2	1681.8	1192.0	877.4	741.4
77.5°	529.5	491.0	699.3	1315.1	2000.4	2191.1	2067.2	1467.3	951.5	580.3	364.1
80°	138.6	138.4	211.4	596.2	1360.4	1618.1	1419.5	947.5	543.7	207.4	100.4
82.5°	57.3	56.0	77.7	231.9	664.7	908.0	741.0	422.6	196.4	56.2	33.3
85°	21.4	21.2	37.7	80.1	234.5	374.5	271.0	108.0	48.9	27.4	15.0
87.5°	5.9	5.8	8.2	27.8	57.1	86.7	46.3	17.7	13.7	10.8	4.4
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: P959198
 CATALOG NUMBER: NAV-SB1A-722-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6
2.5°	432.0	433.1	434.8	436.2	438.0	440.0	442.8	444.6	446.4	447.6	446.8
5°	433.8	436.0	440.6	445.3	450.6	455.6	461.4	465.6	468.9	470.0	470.4
7.5°	437.8	441.4	449.2	456.9	465.6	473.8	482.2	489.3	495.2	497.3	497.5
10°	444.8	449.6	460.6	471.6	483.0	495.6	506.4	516.7	524.9	528.3	528.5
12.5°	453.6	459.6	474.0	489.1	504.9	522.3	536.3	549.1	559.2	563.9	563.9
15°	464.9	472.7	491.2	511.5	534.7	558.8	576.7	590.8	602.2	607.8	607.4
17.5°	477.3	487.8	511.0	541.7	574.8	606.6	627.4	637.8	649.5	655.0	654.8
20°	489.3	502.1	535.3	580.0	624.2	657.9	674.8	677.5	678.3	678.9	680.5
22.5°	501.7	519.0	565.8	628.3	675.7	699.0	701.5	689.5	672.7	664.9	667.1
25°	515.3	538.1	605.8	681.7	720.1	722.8	704.5	675.3	643.6	628.9	631.2
27.5°	528.5	560.3	653.7	732.7	752.0	727.4	687.9	646.6	608.2	592.9	594.6
30°	541.7	585.6	706.6	777.2	766.6	716.1	661.7	615.6	577.1	560.9	562.6
32.5°	555.0	615.2	767.6	809.3	764.0	691.9	629.1	580.9	546.8	529.9	532.1
35°	570.2	651.5	825.3	826.9	746.6	656.3	586.2	539.3	509.7	496.1	499.2
37.5°	590.0	697.7	876.3	831.3	716.3	604.2	532.9	490.2	465.8	459.6	464.0
40°	614.6	753.2	915.2	824.3	671.3	540.9	474.6	440.4	426.6	428.0	432.9
42.5°	646.6	815.3	942.6	806.4	608.7	475.6	423.4	408.3	414.8	420.5	425.7
45°	688.1	879.9	959.5	775.8	538.1	420.2	393.3	396.9	401.9	402.5	406.4
47.5°	741.2	945.2	970.7	729.6	466.0	381.3	374.1	374.9	373.9	369.7	372.9
50°	807.5	1008.7	980.7	668.5	404.7	356.9	347.4	344.5	330.8	317.1	319.0
52.5°	883.0	1067.0	984.9	592.7	356.9	336.5	320.9	303.4	277.7	273.5	274.8
55°	966.9	1120.9	974.2	499.4	316.8	310.4	286.8	265.7	262.8	259.2	259.8
57.5°	1067.2	1179.1	952.1	395.2	275.6	279.8	256.9	259.2	254.3	248.7	247.6
60°	1176.8	1239.1	913.6	300.4	233.1	241.7	249.1	248.9	247.4	242.9	241.3
62.5°	1275.5	1278.7	837.7	230.1	195.8	212.1	232.3	232.1	230.9	228.3	227.3
65°	1334.2	1272.7	711.0	181.1	165.0	187.8	209.5	211.2	211.4	211.2	211.2
67.5°	1323.9	1202.6	537.3	144.2	139.6	163.0	187.0	189.1	190.8	191.2	191.6
70°	1206.4	1048.6	350.3	115.0	117.1	141.2	165.5	167.8	169.1	170.8	171.6
72.5°	940.3	771.0	200.5	93.1	97.3	122.5	144.4	147.0	147.8	150.8	152.0
75°	573.1	453.4	108.2	73.3	79.8	104.7	123.4	126.4	127.8	131.4	131.8
77.5°	272.4	196.4	61.7	57.1	64.3	85.5	104.2	107.6	103.8	105.9	104.2
80°	92.0	72.9	38.9	43.6	49.1	66.7	83.5	86.9	78.9	78.5	77.7
82.5°	32.2	29.5	24.8	29.0	31.8	47.8	63.1	67.5	58.7	58.5	55.8
85°	12.6	12.0	13.7	15.8	19.0	29.3	41.5	43.8	36.2	29.2	28.8
87.5°	2.6	2.8	3.4	3.6	5.8	10.1	15.0	18.3	14.6	12.4	11.4
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)