

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: P961528

Luminaire Tested: **NAV-SB2A-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

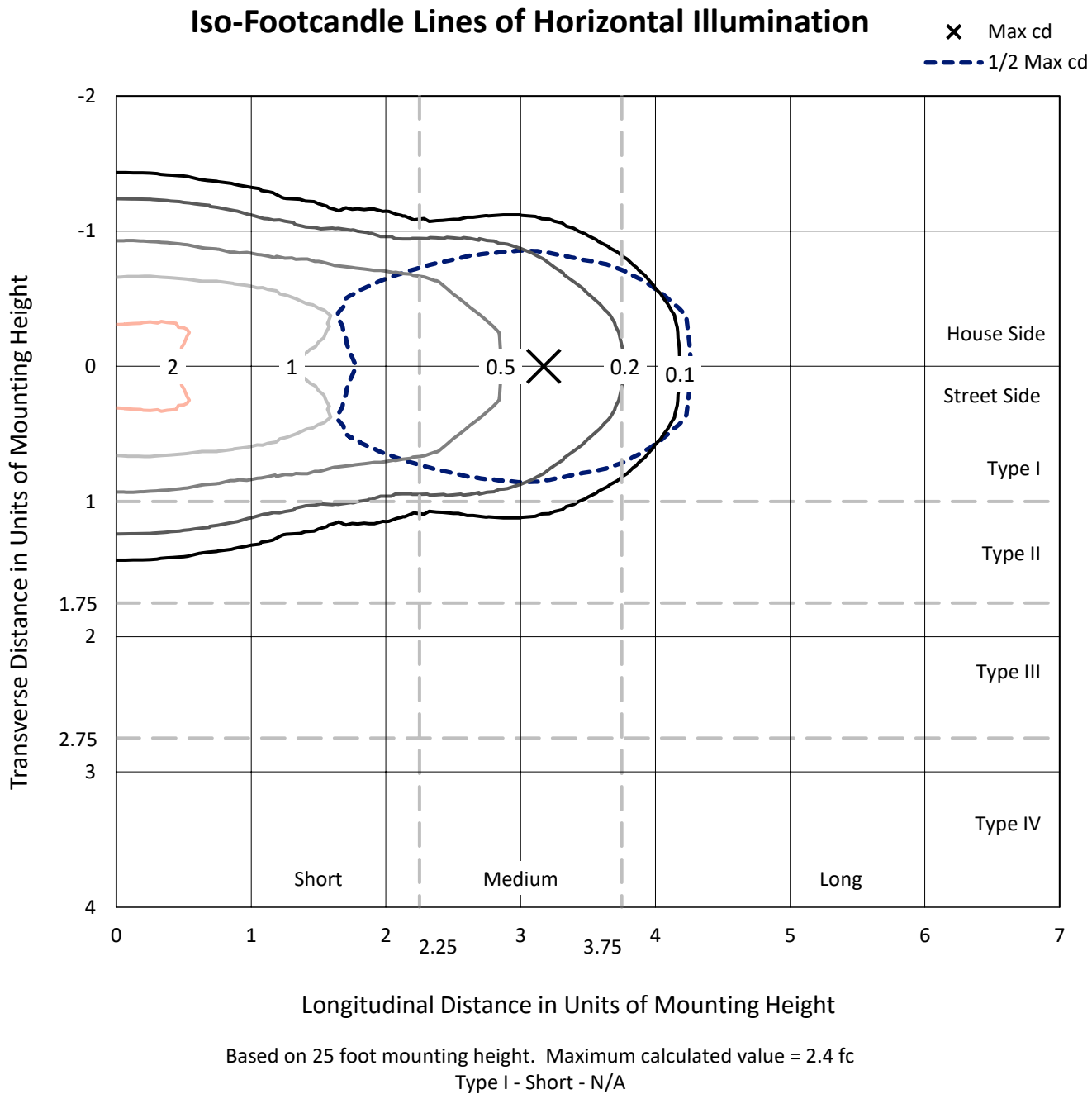
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7909.9 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 57.3
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

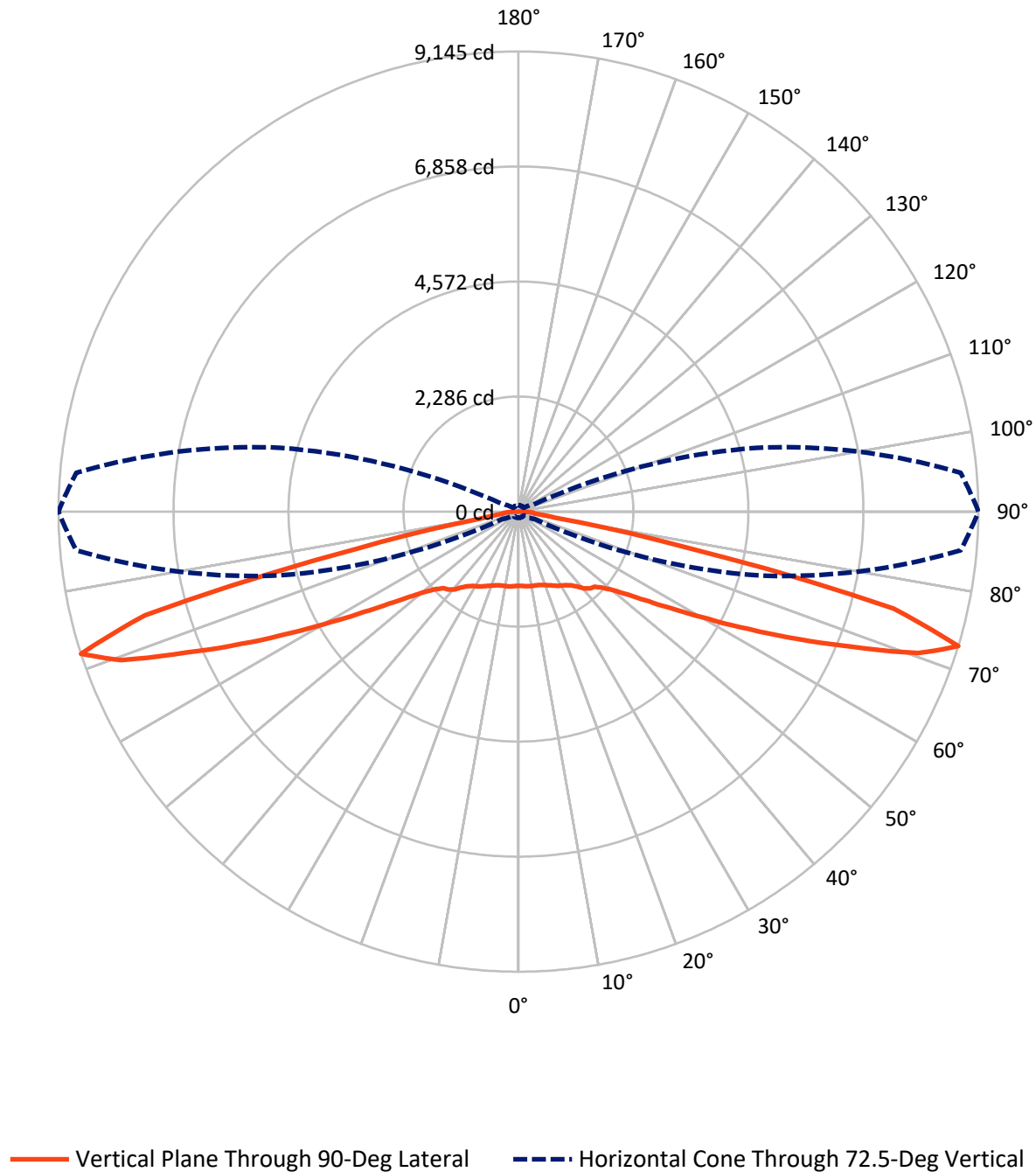


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Luminous Intensity Polar Plot



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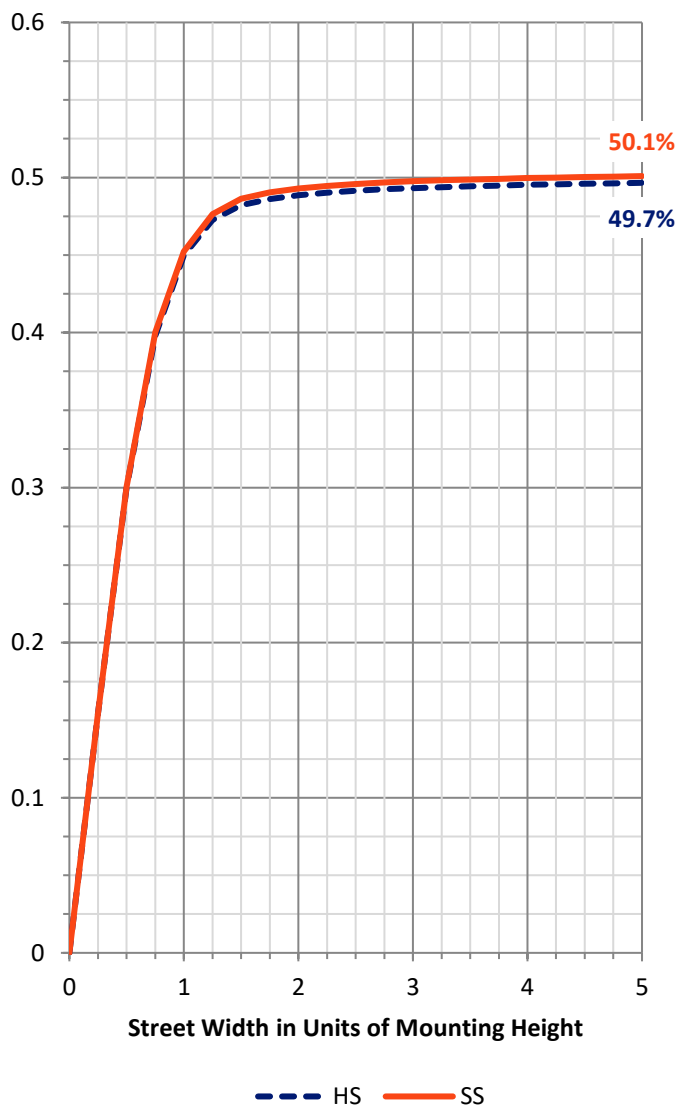
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3955.0	0.0	3955.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3955.0	0.0	3955.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7909.9	0.0	7909.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	1.8
10°-20°	438.2	5.5
20°-30°	730.7	9.2
30°-40°	1004.9	12.7
40°-50°	1227.2	15.5
50°-60°	1419.4	17.9
60°-70°	1692.4	21.4
70°-80°	1181.2	14.9
80°-90°	72.5	0.9
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°	7909.9	100.0
0°-180°	7909.9	100.0

Coefficient of Utilization



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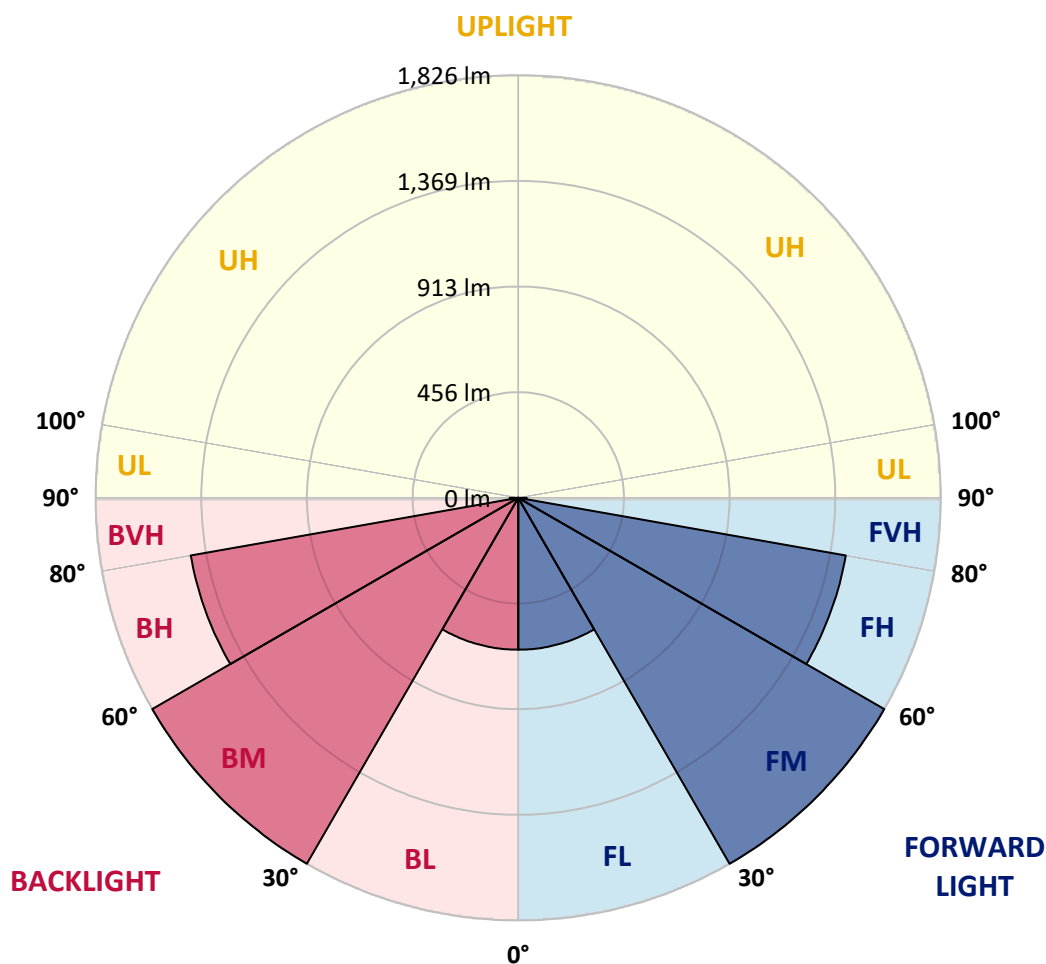
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	656.1	8.3			
FM	(30°-60°)	1825.8	23.1			
FH	(60°-80°)	1436.8	18.2			G1/1800
FVH	(80°-90°)	36.3	0.5			G1/100
BL	(0°-30°)	656.1	8.3	B2/1000		
BM	(30°-60°)	1825.8	23.1	B2/2500		
BH	(60°-80°)	1436.8	18.2	B3/2500		G3/2500
BVH	(80°-90°)	36.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0
2.5°	1479.3	1481.0	1481.0	1479.7	1482.7	1480.2	1480.2	1478.9	1480.2	1478.9	1478.9
5°	1486.9	1489.0	1489.8	1489.4	1493.2	1491.1	1491.1	1489.4	1489.8	1488.6	1488.6
7.5°	1501.2	1504.1	1505.8	1507.9	1513.4	1510.8	1509.2	1504.1	1502.0	1498.7	1498.7
10°	1505.8	1509.2	1514.6	1525.5	1538.2	1538.6	1533.5	1520.9	1511.3	1503.7	1502.4
12.5°	1491.5	1496.1	1507.5	1529.7	1557.9	1569.3	1561.3	1540.3	1521.3	1507.9	1505.8
15°	1473.4	1478.5	1495.7	1529.3	1570.9	1597.5	1596.6	1568.9	1538.6	1517.6	1514.2
17.5°	1445.2	1450.3	1475.1	1522.2	1581.1	1624.7	1636.5	1607.9	1565.5	1537.3	1532.7
20°	1394.4	1399.0	1433.5	1499.5	1584.4	1653.7	1684.5	1659.3	1606.3	1568.0	1560.9
22.5°	1328.4	1335.6	1375.9	1460.4	1576.4	1684.1	1739.1	1721.9	1653.7	1600.8	1591.1
25°	1257.8	1265.4	1312.4	1412.4	1555.8	1705.9	1803.9	1792.9	1707.5	1641.5	1628.1
27.5°	1196.8	1204.8	1256.1	1365.0	1523.9	1714.3	1867.8	1873.2	1772.7	1686.5	1672.3
30°	1148.9	1156.5	1211.1	1326.8	1482.7	1705.9	1923.6	1961.4	1839.2	1725.7	1705.1
32.5°	1096.3	1106.0	1163.6	1280.0	1433.9	1685.7	1972.4	2056.9	1916.1	1767.7	1741.7
35°	1029.9	1038.7	1099.3	1216.2	1370.0	1653.3	2013.2	2162.9	2026.2	1831.6	1802.6
37.5°	949.3	957.7	1017.7	1136.3	1306.6	1607.9	2044.3	2282.3	2157.4	1923.6	1885.0
40°	868.1	876.1	932.4	1047.1	1230.4	1549.9	2055.2	2399.1	2307.9	2050.2	2009.0
42.5°	793.7	800.8	852.5	959.3	1145.1	1476.0	2041.0	2500.8	2442.8	2138.5	2085.5
45°	725.2	731.4	777.3	876.9	1056.4	1386.0	1998.0	2610.2	2603.4	2201.5	2130.1
47.5°	647.0	653.2	700.8	797.0	967.7	1280.4	1925.4	2717.8	2826.6	2344.5	2262.1
50°	551.6	557.0	605.8	705.0	875.7	1168.2	1824.4	2802.2	3108.3	2561.0	2457.5
52.5°	438.5	444.3	491.8	591.0	766.4	1047.6	1691.6	2857.3	3433.6	2877.1	2749.7
55°	326.3	330.5	371.7	460.7	631.0	910.1	1525.1	2872.9	3802.7	3309.2	3149.9
57.5°	236.7	239.2	265.7	332.1	478.4	738.2	1323.0	2832.5	4242.1	3863.3	3662.7
60°	191.7	192.5	200.5	229.9	332.5	544.0	1078.7	2693.8	4718.8	4577.5	4324.9
62.5°	174.0	174.0	176.1	184.1	224.9	359.0	783.2	2406.3	5230.0	5480.1	5141.7
65°	161.8	161.8	162.7	166.5	177.4	228.7	494.4	1938.0	5660.9	6537.3	6109.4
67.5°	150.9	151.3	150.9	152.2	158.5	169.0	286.7	1338.4	5892.8	7632.9	7170.8
70°	139.6	140.4	138.3	138.3	143.4	143.8	179.5	734.0	5700.3	8551.0	8429.4
72.5°	126.1	127.4	124.0	123.2	127.0	125.3	135.0	352.3	4894.1	8825.0	9144.5
75°	114.4	116.0	108.4	106.4	106.4	105.1	109.7	180.8	3176.4	7199.0	7700.1
77.5°	103.8	107.2	95.0	88.3	86.6	82.8	89.6	110.6	1389.4	3379.8	3309.6
80°	85.8	90.4	78.2	70.2	67.2	63.0	70.6	77.4	413.3	784.8	751.6
82.5°	63.9	66.0	55.5	50.0	47.5	44.6	53.0	53.8	134.5	277.9	314.1
85°	40.8	41.6	34.0	29.4	28.2	26.9	33.6	29.4	51.2	204.3	296.7
87.5°	14.2	16.4	13.0	11.8	12.6	10.6	15.6	8.8	14.2	144.2	178.7
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)