

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: P961559

Luminaire Tested: **NAV-SB2A-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961559
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-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

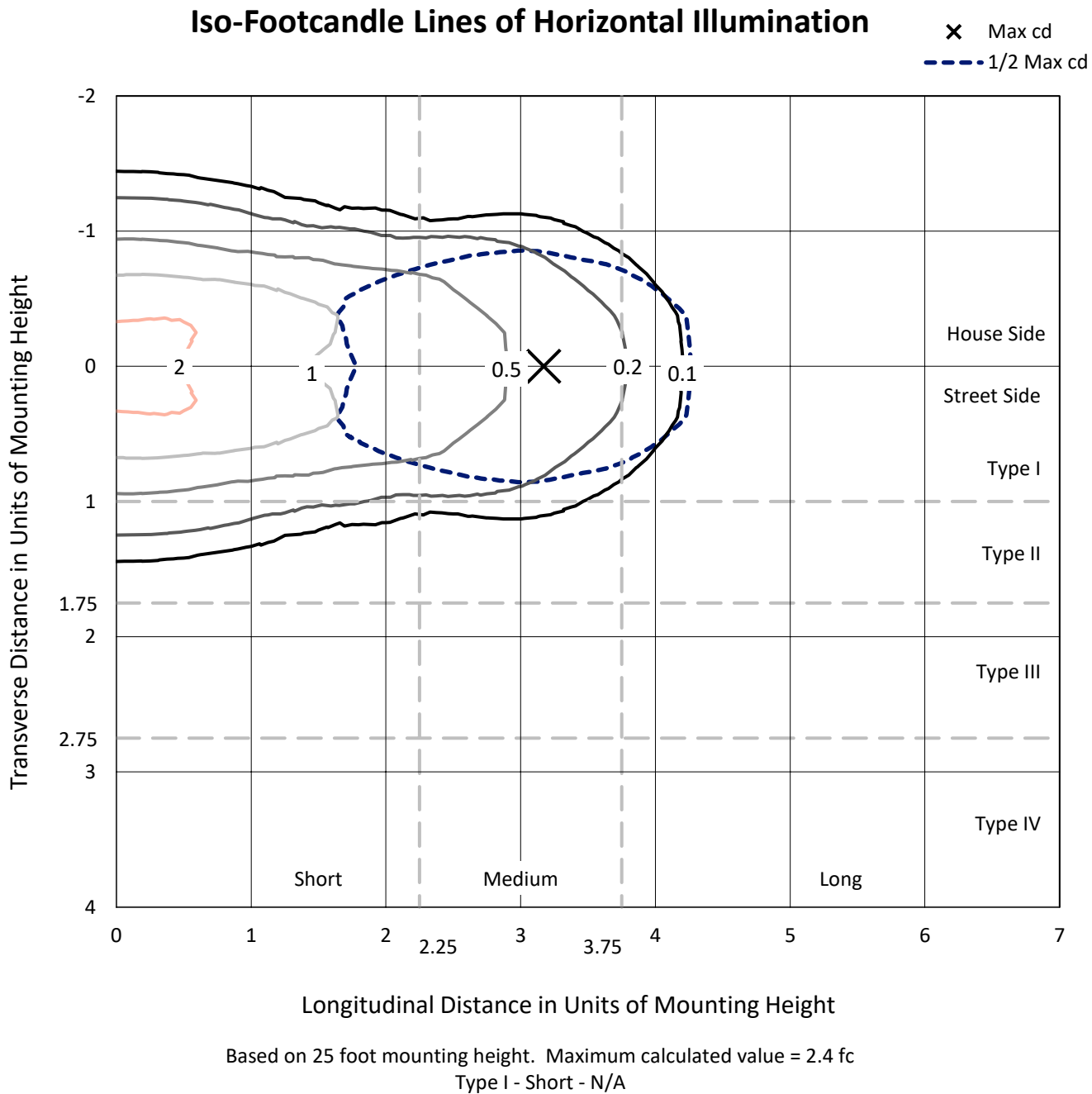
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8173.3 lumens
Efficiency: N/A
Efficacy: 142.6 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

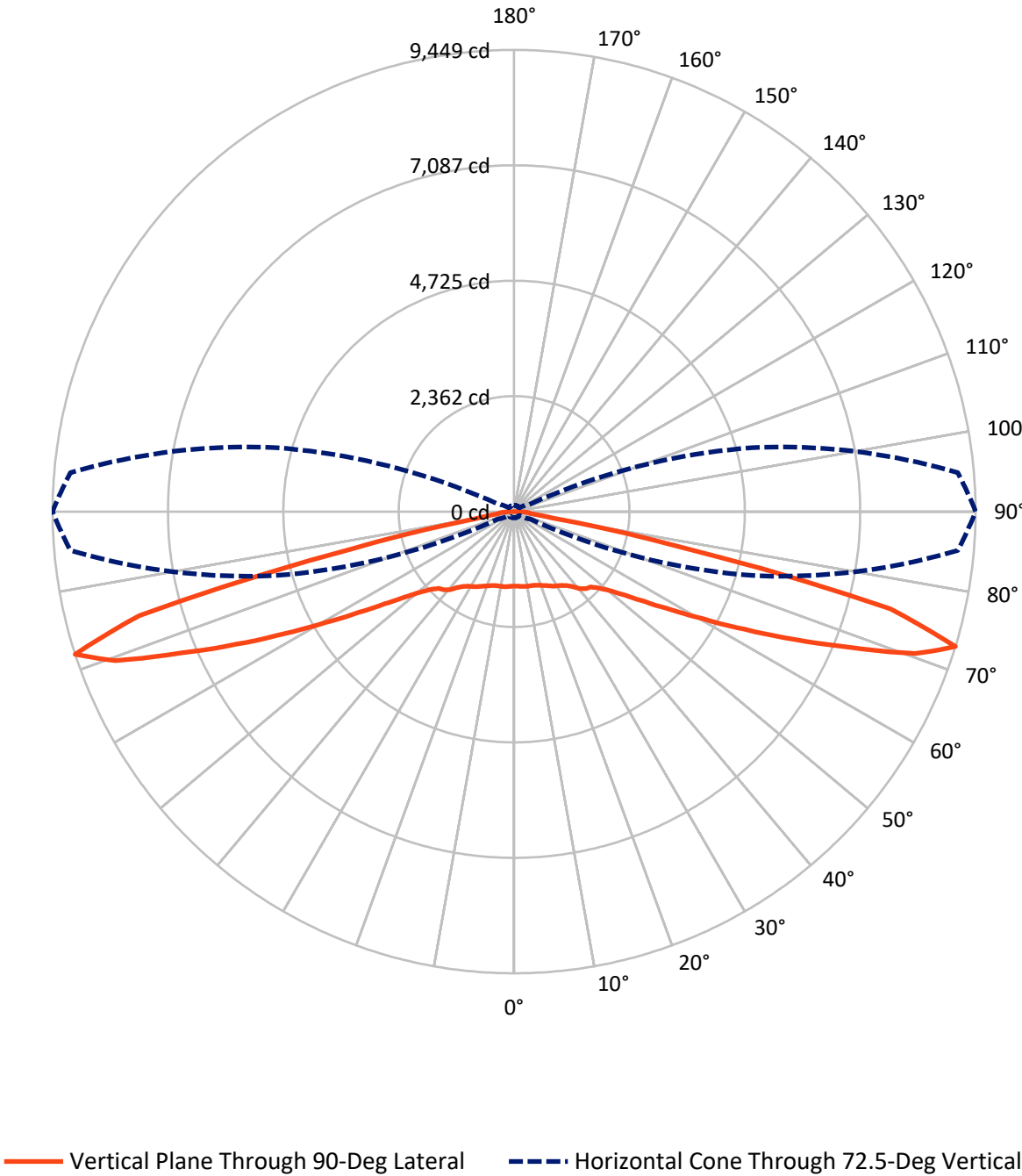


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Luminous Intensity Polar Plot



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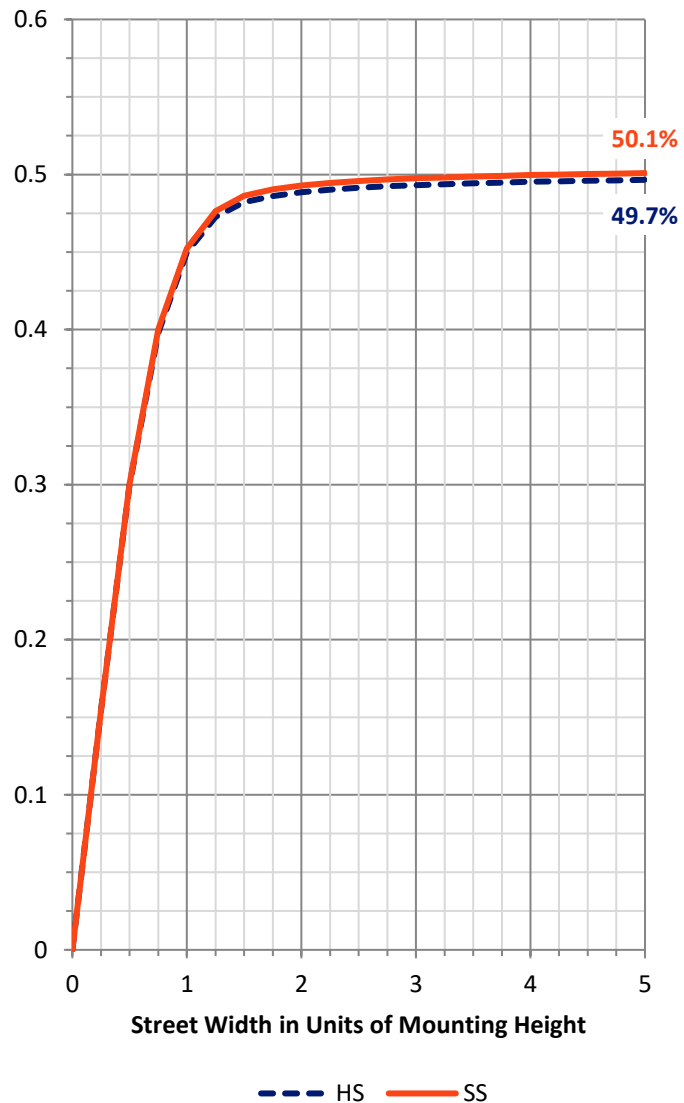
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4086.7	0.0	4086.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4086.7	0.0	4086.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8173.3	0.0	8173.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	1.8
10°-20°	452.8	5.5
20°-30°	755.0	9.2
30°-40°	1038.3	12.7
40°-50°	1268.1	15.5
50°-60°	1466.7	17.9
60°-70°	1748.8	21.4
70°-80°	1220.5	14.9
80°-90°	75.0	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°	8173.3	100.0
0°-180°	8173.3	100.0

Coefficient of Utilization



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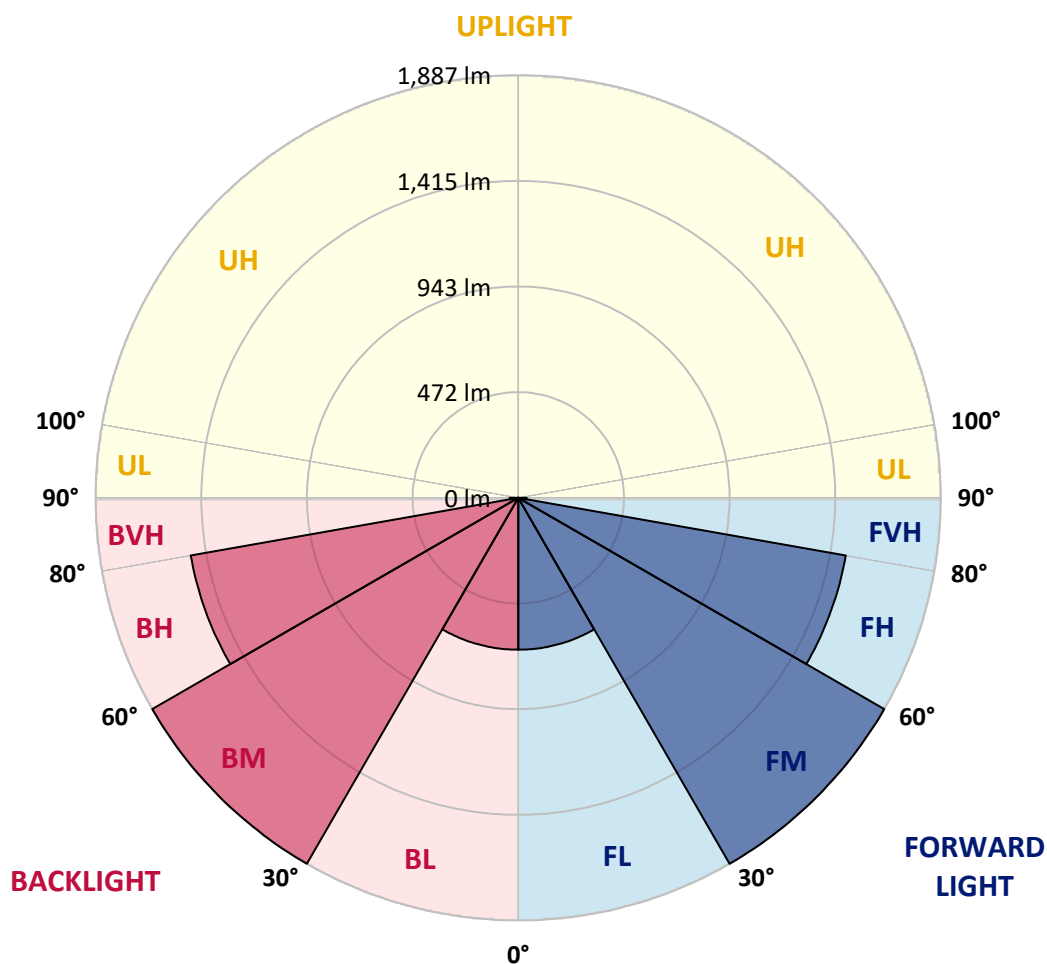
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	677.9	8.3			
FM	(30°-60°)	1886.6	23.1			
FH	(60°-80°)	1484.7	18.2			G1/1800
FVH	(80°-90°)	37.5	0.5			G1/100
BL	(0°-30°)	677.9	8.3	B2/1000		
BM	(30°-60°)	1886.6	23.1	B2/2500		
BH	(60°-80°)	1484.7	18.2	B3/2500		G3/2500
BVH	(80°-90°)	37.5	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°	1527.2	1527.2	1527.2	1527.2	1527.2	1527.2	1527.2	1527.2	1527.2	1527.2	1527.2
2.5°	1528.6	1530.3	1530.3	1529.0	1532.1	1529.4	1529.4	1528.2	1529.4	1528.2	1528.2
5°	1536.4	1538.5	1539.4	1539.0	1542.9	1540.8	1540.8	1539.0	1539.4	1538.1	1538.1
7.5°	1551.1	1554.2	1555.9	1558.1	1563.7	1561.2	1559.4	1554.2	1552.1	1548.6	1548.6
10°	1555.9	1559.4	1565.1	1576.3	1589.4	1589.9	1584.6	1571.6	1561.6	1553.8	1552.5
12.5°	1541.2	1545.9	1557.7	1580.8	1609.8	1621.6	1613.2	1591.5	1572.0	1558.1	1555.9
15°	1522.5	1527.7	1545.5	1580.2	1623.3	1650.7	1649.7	1621.1	1589.9	1568.1	1564.7
17.5°	1493.4	1498.7	1524.3	1572.9	1633.7	1678.8	1691.0	1661.5	1617.7	1588.5	1583.7
20°	1440.8	1445.7	1481.2	1549.4	1637.1	1708.9	1740.6	1714.5	1659.8	1620.2	1612.8
22.5°	1372.7	1380.1	1421.7	1509.0	1628.9	1740.1	1797.0	1779.2	1708.9	1654.1	1644.1
25°	1299.7	1307.5	1356.2	1459.5	1607.6	1762.7	1864.0	1852.6	1764.4	1696.3	1682.3
27.5°	1236.7	1245.0	1298.0	1410.4	1574.6	1771.4	1930.0	1935.6	1831.8	1742.7	1727.9
30°	1187.2	1194.9	1251.4	1370.9	1532.1	1762.7	1987.7	2026.8	1900.5	1783.1	1761.9
32.5°	1132.8	1142.9	1202.3	1322.7	1481.6	1741.9	2038.1	2125.4	1979.9	1826.6	1799.6
35°	1064.3	1073.4	1135.9	1256.6	1415.6	1708.4	2080.2	2234.9	2093.7	1892.6	1862.6
37.5°	980.8	989.5	1051.6	1174.1	1350.0	1661.5	2112.4	2358.2	2229.3	1987.7	1947.7
40°	897.0	905.3	963.5	1082.0	1271.4	1601.6	2123.7	2479.0	2384.8	2118.5	2075.9
42.5°	820.1	827.5	880.9	991.3	1183.3	1525.1	2108.9	2584.1	2524.2	2209.7	2155.0
45°	749.3	755.8	803.2	906.1	1091.6	1432.1	2064.6	2697.1	2690.1	2274.9	2201.0
47.5°	668.5	675.1	724.1	823.6	1000.0	1323.1	1989.4	2808.3	2920.7	2422.5	2337.4
50°	569.9	575.5	626.0	728.5	904.8	1207.1	1885.2	2895.5	3211.8	2646.2	2539.3
52.5°	453.0	459.1	508.2	610.7	791.9	1082.5	1747.9	2952.5	3548.0	2972.9	2841.3
55°	337.1	341.4	384.0	476.1	652.0	940.4	1575.9	2968.5	3929.4	3419.4	3254.8
57.5°	244.6	247.1	274.5	343.2	494.4	762.8	1366.9	2926.9	4383.3	3992.0	3784.7
60°	198.0	199.0	207.2	237.6	343.6	562.1	1114.6	2783.5	4875.9	4730.0	4468.9
62.5°	179.8	179.8	182.0	190.2	232.4	370.9	809.2	2486.3	5404.1	5662.6	5312.9
65°	167.3	167.3	168.1	172.0	183.3	236.3	510.9	2002.4	5849.4	6755.1	6312.9
67.5°	155.9	156.4	155.9	157.2	163.8	174.7	296.2	1383.0	6089.1	7887.1	7409.6
70°	144.2	145.0	142.9	142.9	148.1	148.5	185.5	758.4	5890.2	8835.7	8710.1
72.5°	130.3	131.6	128.1	127.3	131.2	129.5	139.4	364.0	5057.0	9118.9	9449.1
75°	118.2	119.9	112.0	109.9	109.9	108.5	113.4	186.8	3282.2	7438.7	7956.6
77.5°	107.3	110.8	98.2	91.2	89.5	85.6	92.6	114.3	1435.6	3492.4	3419.9
80°	88.7	93.4	80.8	72.6	69.5	65.2	73.0	79.9	427.0	811.0	776.6
82.5°	66.0	68.2	57.3	51.7	49.1	46.0	54.7	55.6	139.0	287.1	324.5
85°	42.1	43.0	35.2	30.4	29.1	27.8	34.7	30.4	53.0	211.2	306.7
87.5°	14.8	16.9	13.4	12.2	13.0	10.9	16.1	9.1	14.8	149.0	184.6
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)