

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: P962086

Luminaire Tested: **NAV-SB2B-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962086
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-SB2B-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

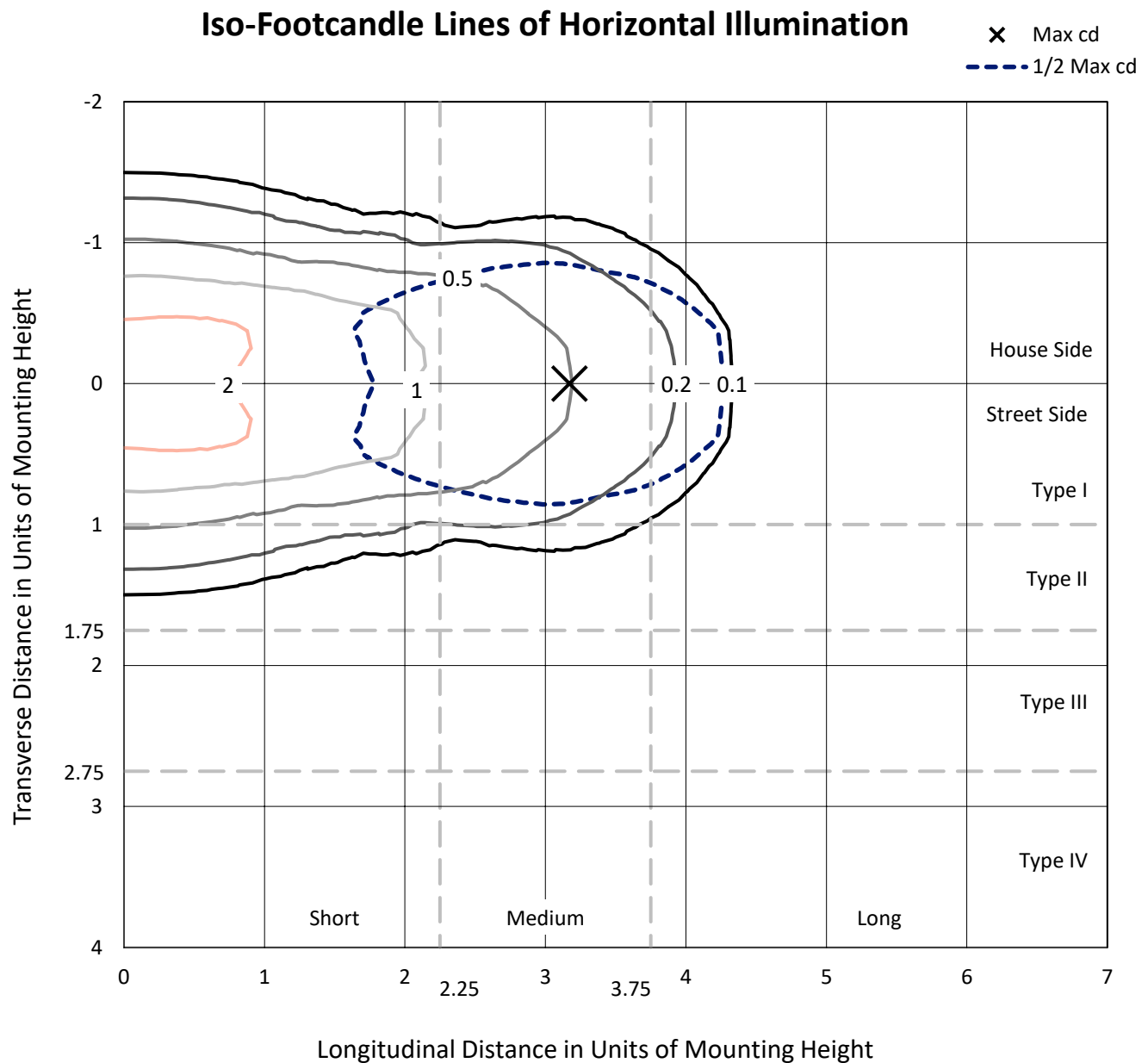
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10260.2 lumens
Efficiency: N/A
Efficacy: 138.8 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): 73.9
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



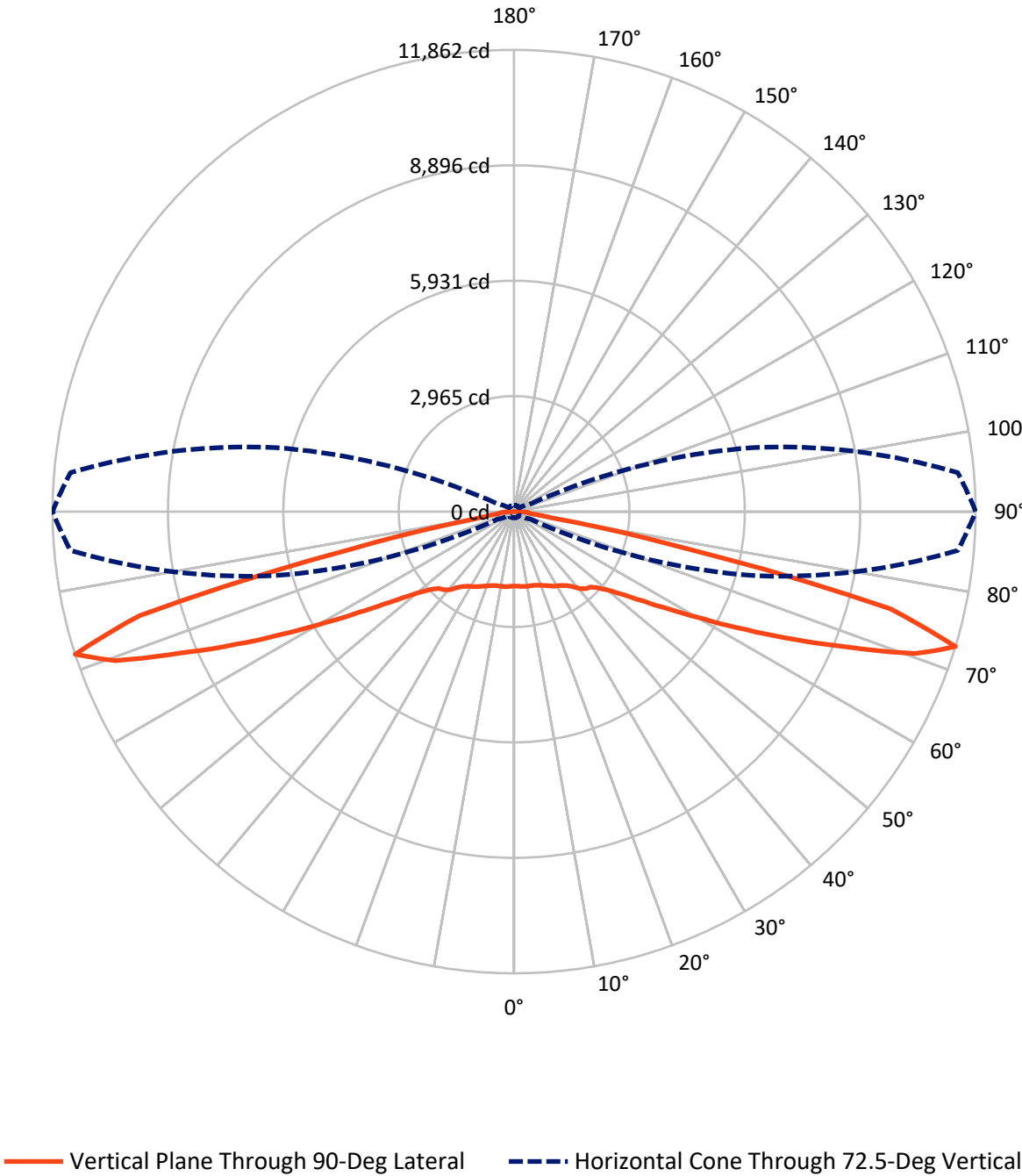
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Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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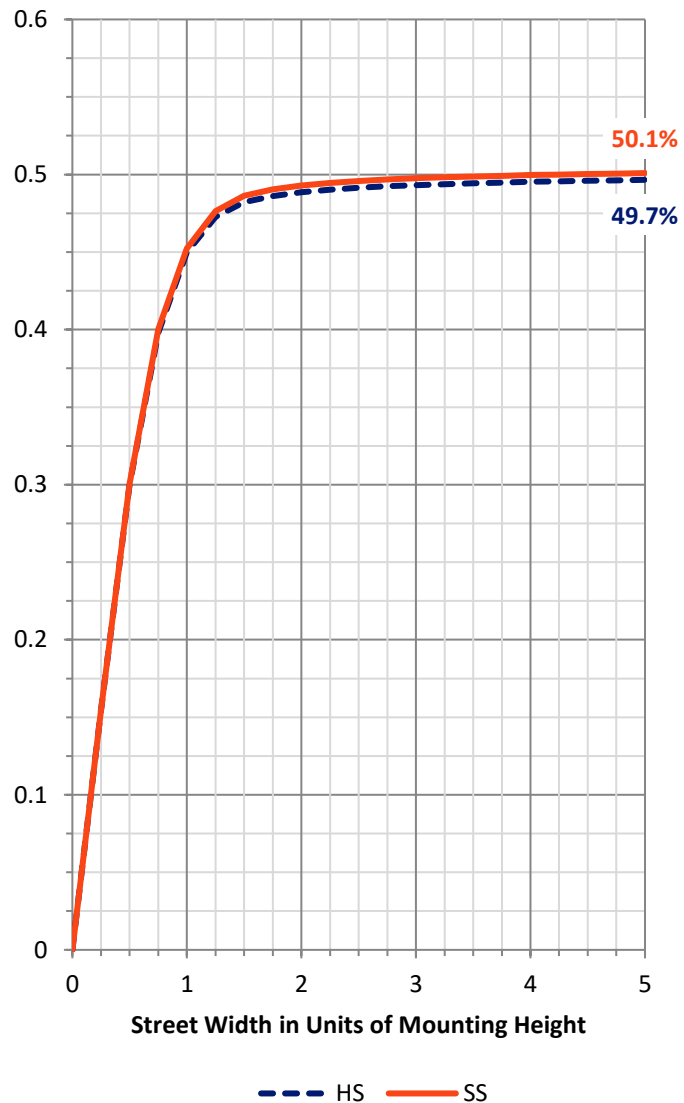
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5130.1	0.0	5130.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5130.1	0.0	5130.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10260.2	0.0	10260.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	1.8
10°-20°	568.4	5.5
20°-30°	947.8	9.2
30°-40°	1303.5	12.7
40°-50°	1591.9	15.5
50°-60°	1841.2	17.9
60°-70°	2195.3	21.4
70°-80°	1532.2	14.9
80°-90°	94.1	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°	10260.2	100.0
0°-180°	10260.2	100.0

Coefficient of Utilization



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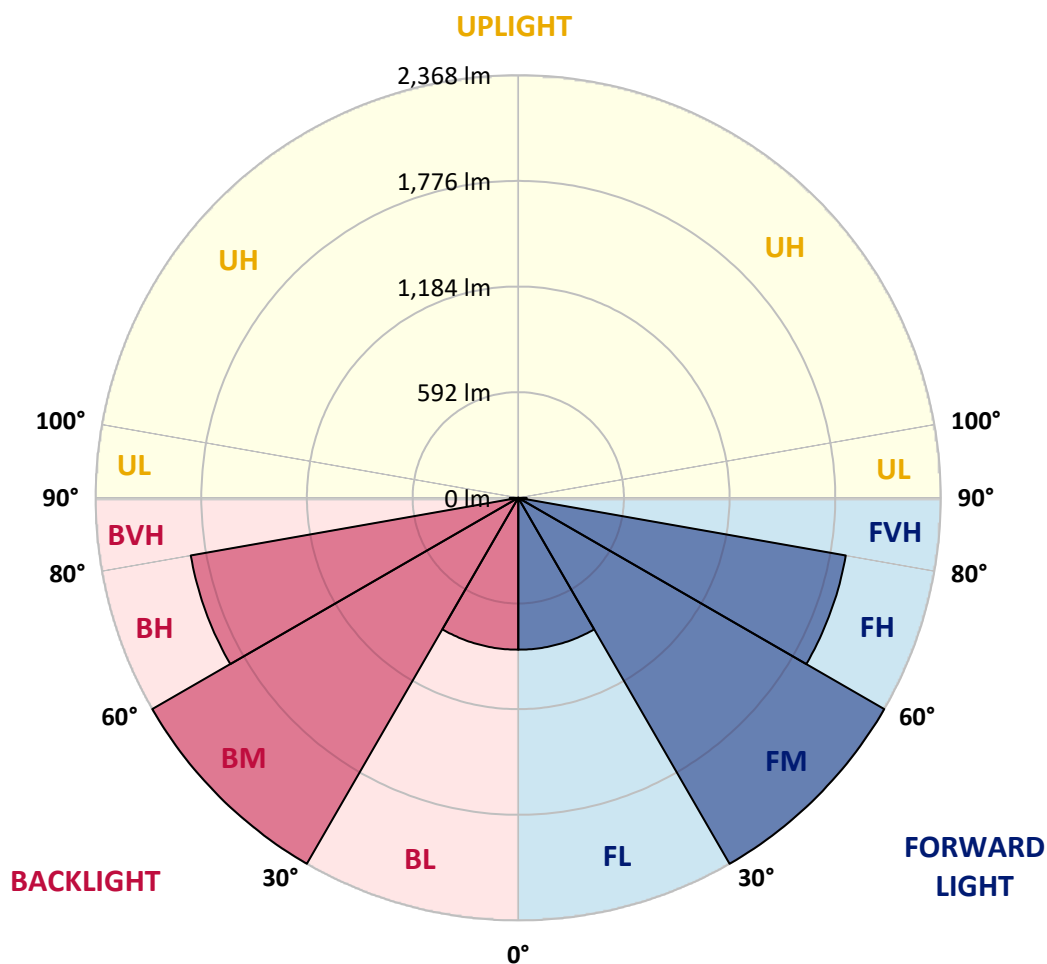
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.0	8.3			
FM	(30°-60°)	2368.3	23.1			
FH	(60°-80°)	1863.8	18.2			G2/5000
FVH	(80°-90°)	47.1	0.5			G1/100
BL	(0°-30°)	851.0	8.3	B2/1000		
BM	(30°-60°)	2368.3	23.1	B2/2500		
BH	(60°-80°)	1863.8	18.2	B3/2500		G3/2500
BVH	(80°-90°)	47.1	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°	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3
2.5°	1918.9	1921.1	1921.1	1919.4	1923.2	1919.9	1919.9	1918.3	1919.9	1918.3	1918.3
5°	1928.6	1931.4	1932.5	1931.9	1936.8	1934.2	1934.2	1931.9	1932.5	1930.9	1930.9
7.5°	1947.2	1951.1	1953.2	1955.9	1963.1	1959.8	1957.5	1951.1	1948.3	1943.9	1943.9
10°	1953.2	1957.5	1964.7	1978.9	1995.2	1995.8	1989.2	1972.8	1960.3	1950.5	1948.8
12.5°	1934.7	1940.6	1955.4	1984.3	2020.9	2035.5	2025.2	1997.9	1973.4	1955.9	1953.2
15°	1911.2	1917.8	1940.1	1983.8	2037.7	2072.1	2071.0	2035.0	1995.8	1968.5	1964.1
17.5°	1874.7	1881.3	1913.5	1974.5	2050.8	2107.5	2122.8	2085.8	2030.6	1994.1	1988.1
20°	1808.7	1814.8	1859.5	1945.0	2055.2	2145.1	2185.0	2152.3	2083.5	2033.9	2024.7
22.5°	1723.1	1732.4	1784.7	1894.3	2044.9	2184.4	2255.8	2233.5	2145.1	2076.4	2063.9
25°	1631.5	1641.3	1702.4	1832.2	2018.1	2212.8	2339.9	2325.6	2214.9	2129.3	2111.9
27.5°	1552.5	1562.8	1629.3	1770.6	1976.7	2223.7	2422.7	2429.8	2299.5	2187.7	2169.2
30°	1490.2	1500.1	1571.0	1721.0	1923.2	2212.8	2495.3	2544.4	2385.7	2238.4	2211.6
32.5°	1422.1	1434.7	1509.3	1660.4	1860.0	2186.6	2558.5	2668.1	2485.4	2292.9	2259.1
35°	1336.0	1347.4	1426.0	1577.5	1777.1	2144.6	2611.4	2805.5	2628.3	2375.8	2338.2
37.5°	1231.2	1242.2	1320.1	1473.9	1694.7	2085.8	2651.8	2960.4	2798.5	2495.3	2445.0
40°	1126.1	1136.4	1209.5	1358.3	1596.0	2010.4	2665.9	3112.0	2993.6	2659.4	2606.0
42.5°	1029.5	1038.7	1105.9	1244.4	1485.3	1914.5	2647.4	3243.9	3168.7	2773.9	2705.2
45°	940.6	948.8	1008.2	1137.4	1370.3	1797.8	2591.7	3385.7	3377.0	2855.6	2763.0
47.5°	839.2	847.4	909.0	1033.9	1255.2	1660.9	2497.4	3525.3	3666.5	3041.1	2934.2
50°	715.4	722.5	785.8	914.4	1135.8	1515.4	2366.5	3634.9	4031.8	3321.9	3187.7
52.5°	568.8	576.4	638.0	766.7	994.0	1358.8	2194.2	3706.3	4453.9	3731.9	3566.7
55°	423.1	428.6	482.1	597.7	818.5	1180.6	1978.4	3726.5	4932.7	4292.5	4085.9
57.5°	307.0	310.3	344.6	430.8	620.5	957.6	1716.1	3674.1	5502.5	5011.2	4751.1
60°	248.7	249.8	260.1	298.3	431.3	705.6	1399.2	3494.2	6120.9	5937.6	5609.9
62.5°	225.7	225.7	228.5	238.8	291.7	465.7	1015.9	3121.2	6784.0	7108.4	6669.5
65°	209.9	209.9	211.0	216.0	230.1	296.6	641.2	2513.8	7342.9	8479.8	7924.7
67.5°	195.8	196.3	195.8	197.4	205.6	219.2	371.9	1736.2	7643.8	9900.8	9301.6
70°	181.0	182.1	179.4	179.4	185.9	186.4	232.9	952.1	7394.1	11091.7	10934.1
72.5°	163.6	165.2	160.8	159.8	164.7	162.5	175.1	456.9	6348.2	11447.3	11861.7
75°	148.3	150.5	140.7	138.0	138.0	136.3	142.3	234.5	4120.2	9338.1	9988.0
77.5°	134.7	139.1	123.2	114.5	112.3	107.4	116.1	143.4	1802.2	4384.1	4293.1
80°	111.2	117.3	101.4	91.0	87.2	81.8	91.6	100.3	536.0	1018.0	975.0
82.5°	82.9	85.6	72.0	64.9	61.6	57.8	68.7	69.8	174.5	360.4	407.3
85°	52.9	54.0	44.2	38.1	36.5	34.8	43.7	38.1	66.5	265.0	385.0
87.5°	18.6	21.2	16.9	15.3	16.4	13.6	20.2	11.5	18.6	187.1	231.8
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)