

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: P962055

Luminaire Tested: **NAV-SB2B-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962055
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-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

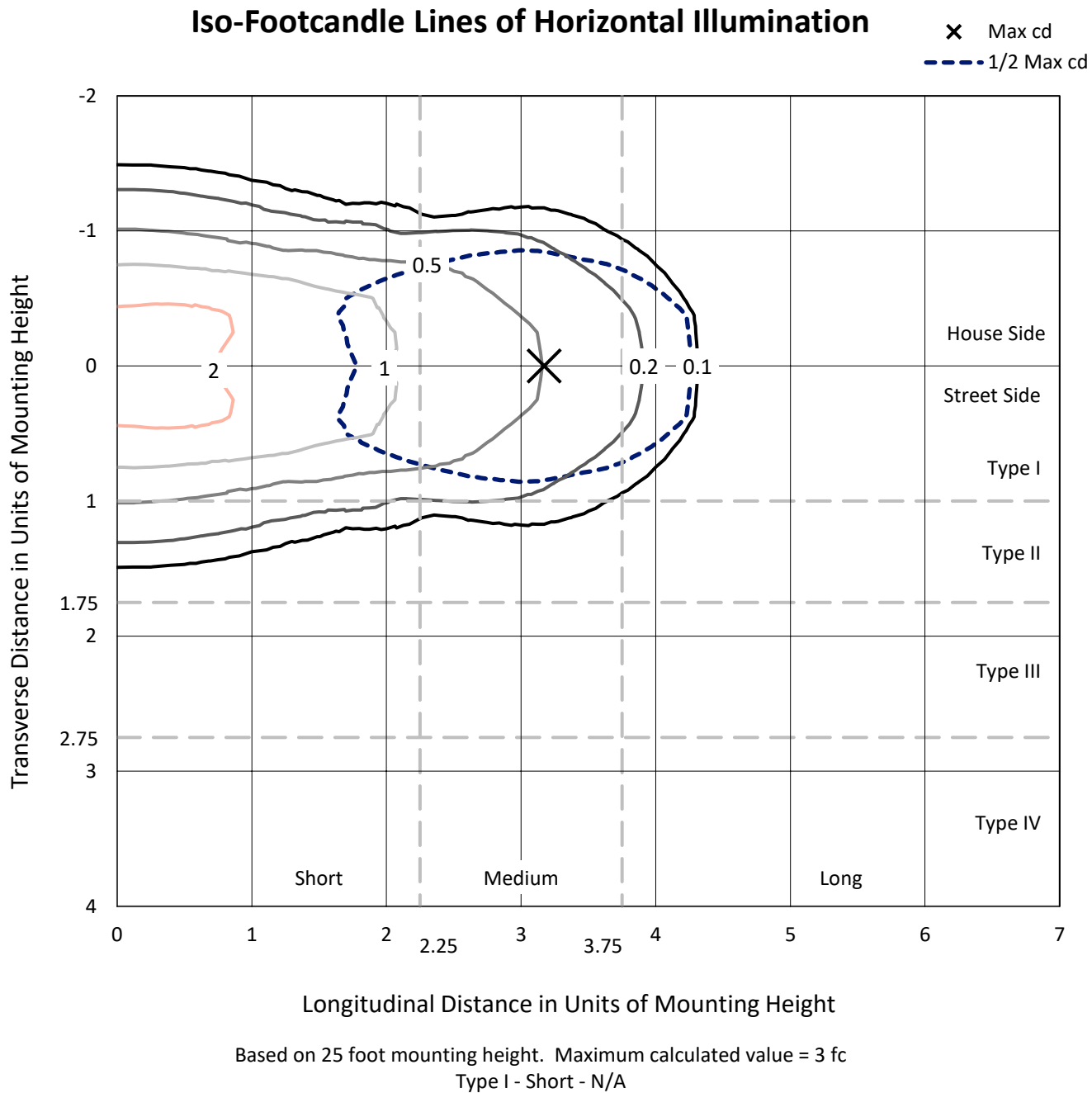
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9929.2 lumens
Efficiency: N/A
Efficacy: 134.4 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

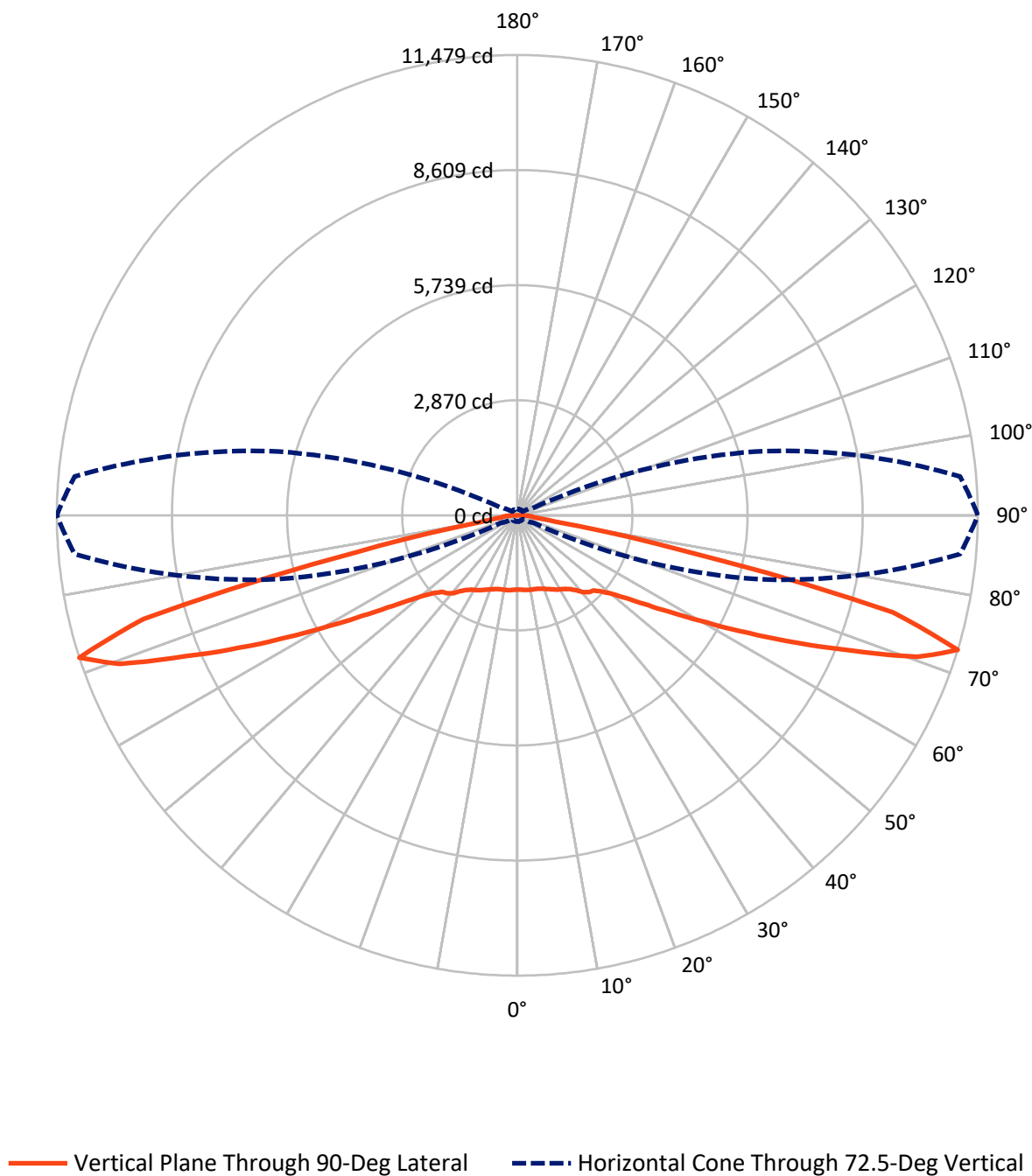


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Luminous Intensity Polar Plot



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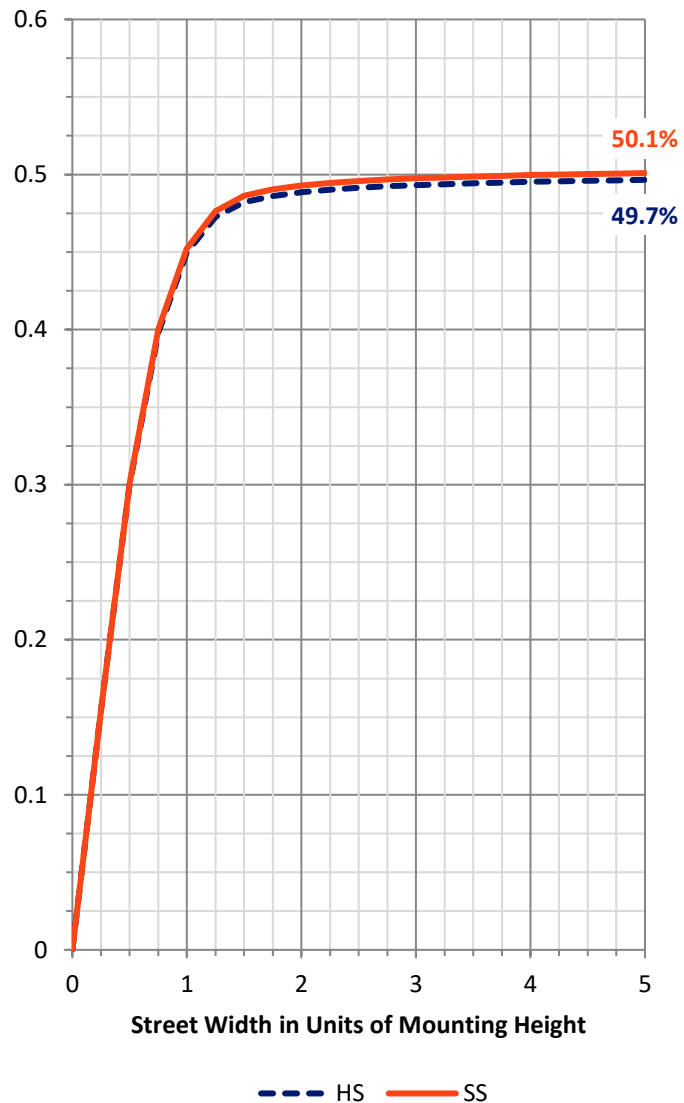
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4964.6	0.0	4964.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4964.6	0.0	4964.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	9929.2	0.0	9929.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.8
10°-20°	550.1	5.5
20°-30°	917.2	9.2
30°-40°	1261.4	12.7
40°-50°	1540.5	15.5
50°-60°	1781.8	17.9
60°-70°	2124.5	21.4
70°-80°	1482.8	14.9
80°-90°	91.1	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°	9929.2	100.0
0°-180°	9929.2	100.0

Coefficient of Utilization



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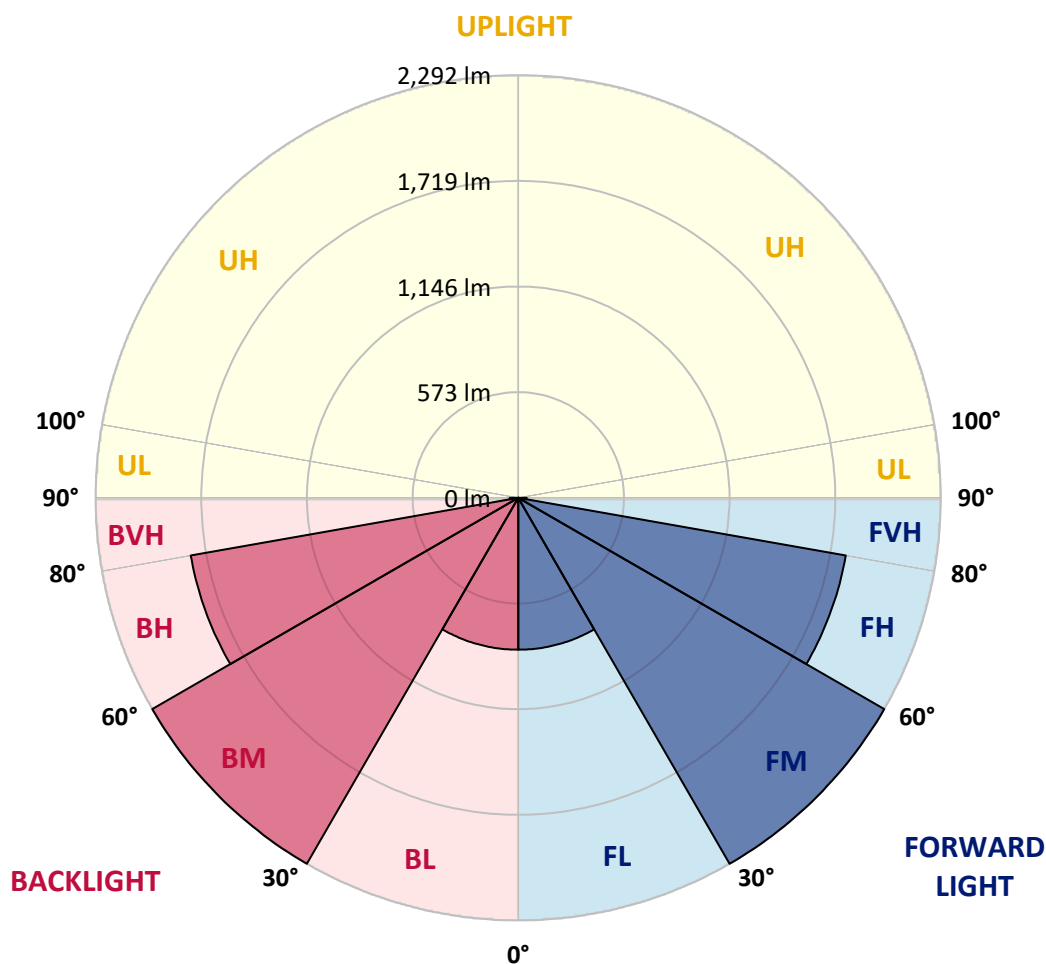
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	823.6	8.3			
FM	(30°-60°)	2291.9	23.1			
FH	(60°-80°)	1803.6	18.2			G2/5000
FVH	(80°-90°)	45.5	0.5			G1/100
BL	(0°-30°)	823.6	8.3	B2/1000		
BM	(30°-60°)	2291.9	23.1	B2/2500		
BH	(60°-80°)	1803.6	18.2	B3/2500		G3/2500
BVH	(80°-90°)	45.5	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°	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4	1855.4
2.5°	1857.0	1859.0	1859.0	1857.5	1861.2	1858.0	1858.0	1856.4	1858.0	1856.4	1856.4
5°	1866.4	1869.1	1870.1	1869.6	1874.4	1871.8	1871.8	1869.6	1870.1	1868.6	1868.6
7.5°	1884.4	1888.0	1890.2	1892.9	1899.7	1896.6	1894.4	1888.0	1885.5	1881.2	1881.2
10°	1890.2	1894.4	1901.3	1915.0	1930.8	1931.4	1925.1	1909.2	1897.1	1887.5	1886.0
12.5°	1872.3	1878.1	1892.4	1920.2	1955.6	1969.8	1959.9	1933.5	1909.7	1892.9	1890.2
15°	1849.6	1855.9	1877.5	1919.7	1972.0	2005.2	2004.2	1969.3	1931.4	1905.0	1900.8
17.5°	1814.2	1820.5	1851.7	1910.8	1984.6	2039.5	2054.3	2018.4	1965.1	1929.8	1923.9
20°	1750.4	1756.1	1799.4	1882.3	1988.9	2075.9	2114.5	2082.8	2016.3	1968.3	1959.3
22.5°	1667.5	1676.5	1727.1	1833.2	1978.9	2114.0	2183.0	2161.4	2075.9	2009.4	1997.3
25°	1578.9	1588.3	1647.5	1773.0	1953.0	2141.4	2264.3	2250.6	2143.5	2060.7	2043.7
27.5°	1502.3	1512.4	1576.8	1713.4	1912.9	2151.9	2344.6	2351.5	2225.3	2117.1	2099.2
30°	1442.2	1451.7	1520.3	1665.4	1861.2	2141.4	2414.7	2462.3	2308.7	2166.1	2140.3
32.5°	1376.3	1388.4	1460.6	1606.8	1800.0	2116.0	2476.0	2582.0	2405.3	2218.9	2186.2
35°	1292.8	1303.9	1380.0	1526.6	1719.7	2075.4	2527.1	2715.0	2543.4	2299.2	2262.8
37.5°	1191.6	1202.1	1277.6	1426.4	1640.1	2018.4	2566.2	2864.9	2708.2	2414.7	2366.2
40°	1089.7	1099.7	1170.4	1314.5	1544.6	1945.7	2579.9	3011.6	2897.1	2573.6	2521.8
42.5°	996.3	1005.2	1070.2	1204.2	1437.5	1852.7	2562.0	3139.3	3066.4	2684.4	2617.8
45°	910.3	918.2	975.7	1100.7	1326.1	1739.8	2508.2	3276.4	3268.0	2763.5	2673.8
47.5°	812.1	820.0	879.7	1000.5	1214.7	1607.4	2416.8	3411.5	3548.2	2943.0	2839.6
50°	692.3	699.2	760.4	885.0	1099.2	1466.5	2290.2	3517.6	3901.8	3214.7	3084.9
52.5°	550.4	557.8	617.4	741.9	962.0	1315.0	2123.4	3586.8	4310.2	3611.5	3451.7
55°	409.5	414.8	466.5	578.3	792.0	1142.5	1914.5	3606.3	4773.5	4154.0	3954.0
57.5°	297.0	300.2	333.5	416.9	600.5	926.6	1660.6	3555.6	5325.0	4849.5	4597.8
60°	240.7	241.7	251.7	288.6	417.4	682.9	1354.0	3381.5	5923.4	5746.0	5428.9
62.5°	218.4	218.4	221.1	231.1	282.3	450.7	983.1	3020.5	6565.0	6879.0	6454.2
65°	203.2	203.2	204.2	209.0	222.7	287.1	620.5	2432.6	7105.9	8206.2	7668.9
67.5°	189.4	189.9	189.4	191.1	199.0	212.2	359.9	1680.2	7397.2	9581.3	9001.4
70°	175.2	176.3	173.6	173.6	180.0	180.5	225.3	921.4	7155.5	10733.8	10581.3
72.5°	158.3	159.9	155.7	154.6	159.4	157.2	169.4	442.2	6143.4	11077.9	11478.9
75°	143.5	145.7	136.1	133.6	133.6	131.9	137.8	226.9	3987.2	9036.7	9665.8
77.5°	130.4	134.6	119.3	110.8	108.8	103.9	112.4	138.8	1744.0	4242.7	4154.5
80°	107.6	113.5	98.2	88.1	84.5	79.1	88.7	97.1	518.8	985.2	943.5
82.5°	80.3	82.8	69.7	62.8	59.7	56.0	66.5	67.5	168.8	348.8	394.2
85°	51.1	52.3	42.7	36.9	35.4	33.7	42.2	36.9	64.4	256.5	372.6
87.5°	17.9	20.6	16.4	14.8	15.8	13.2	19.5	11.1	17.9	181.0	224.3
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)