

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: P960893

Luminaire Tested: **NAV-SB1D-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

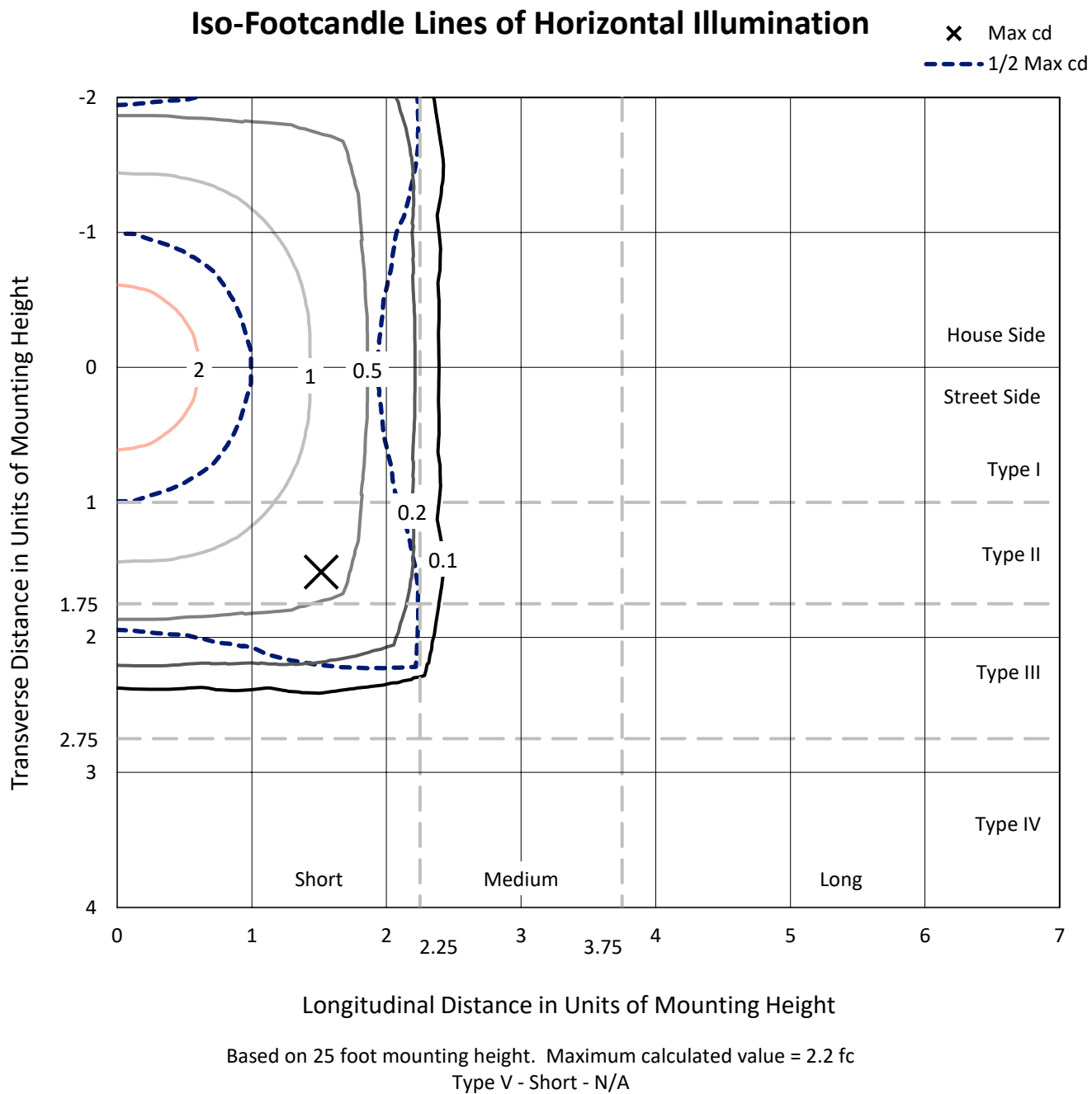
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11567.1 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 79.6
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

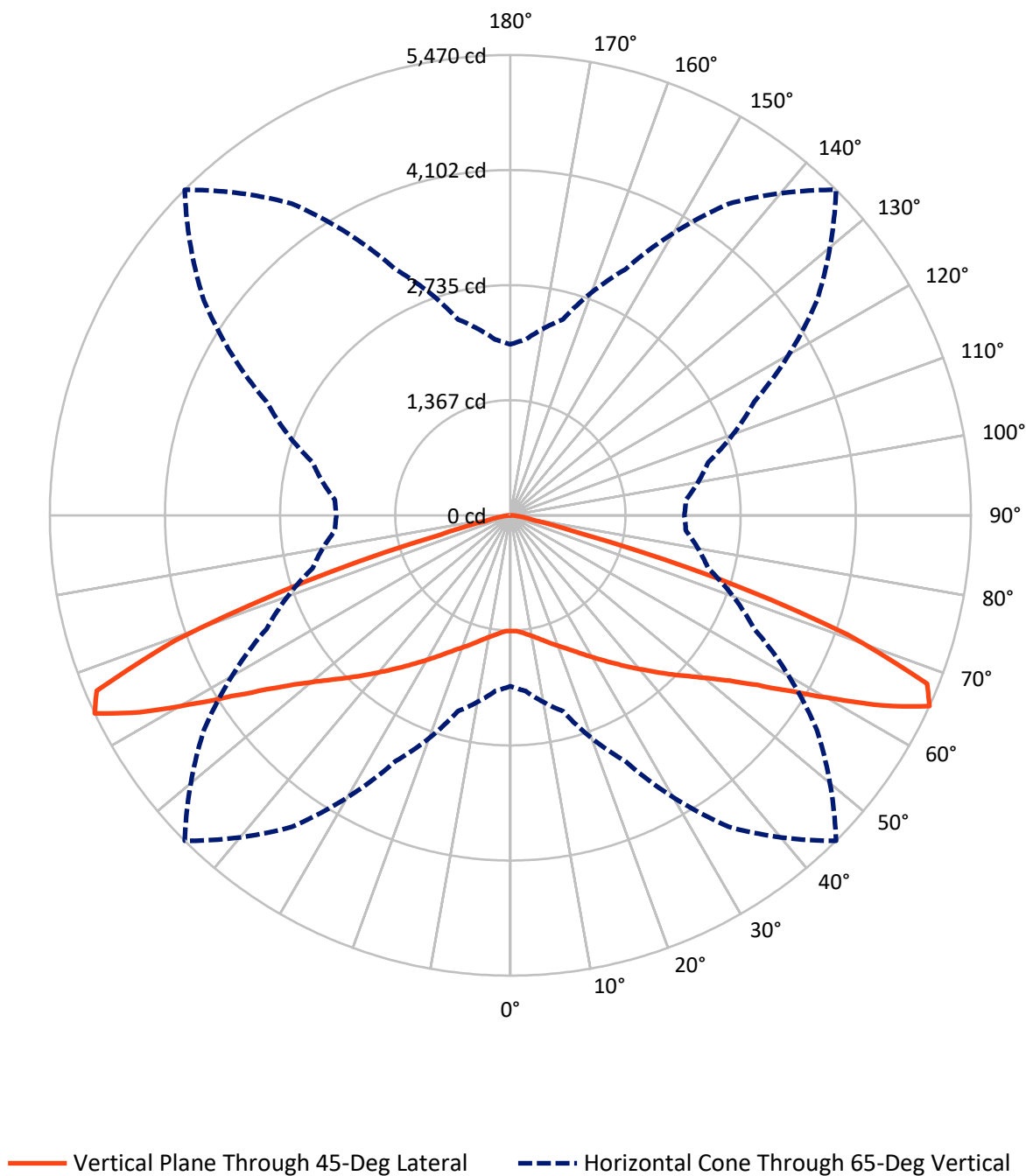


REPORT NUMBER: P960893
CATALOG NUMBER: NAV-SB1D-740-U-5NQ



REPORT NUMBER: P960893
CATALOG NUMBER: NAV-SB1D-740-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P960893

CATALOG NUMBER: NAV-SB1D-740-U-5NQ

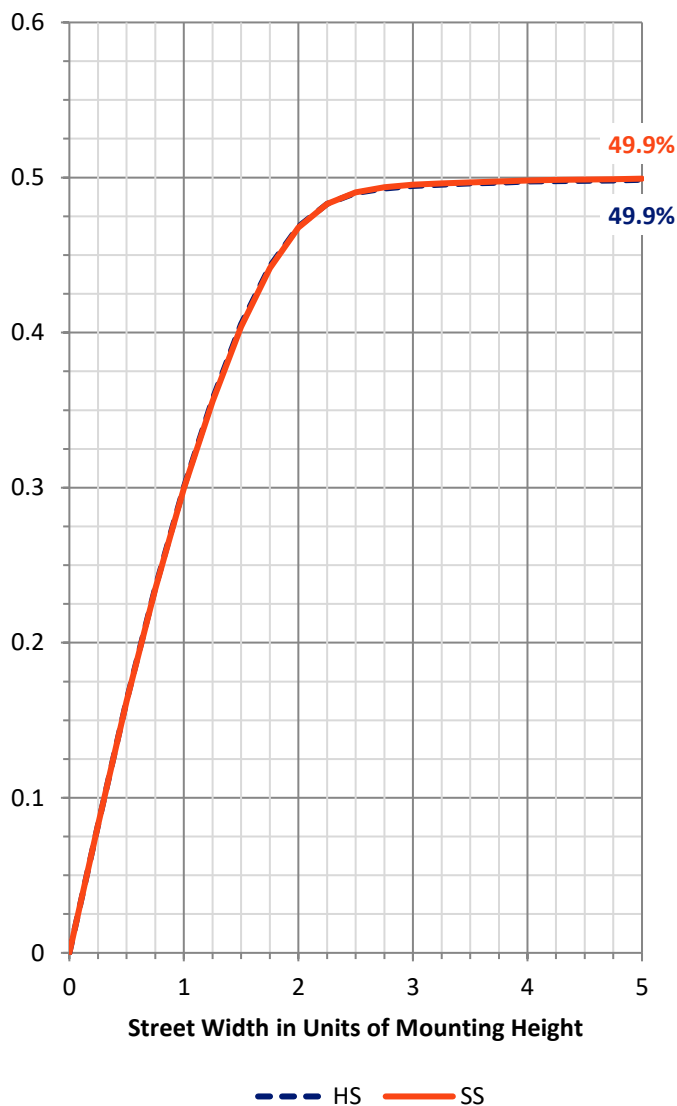
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5783.5	0.0	5783.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5783.5	0.0	5783.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11567.1	0.0	11567.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	1.2
10°-20°	443.3	3.8
20°-30°	837.0	7.2
30°-40°	1370.6	11.8
40°-50°	2125.1	18.4
50°-60°	3139.3	27.1
60°-70°	2988.3	25.8
70°-80°	482.2	4.2
80°-90°	45.4	0.4
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°	11567.1	100.0
0°-180°	11567.1	100.0

Coefficient of Utilization



REPORT NUMBER: P960893

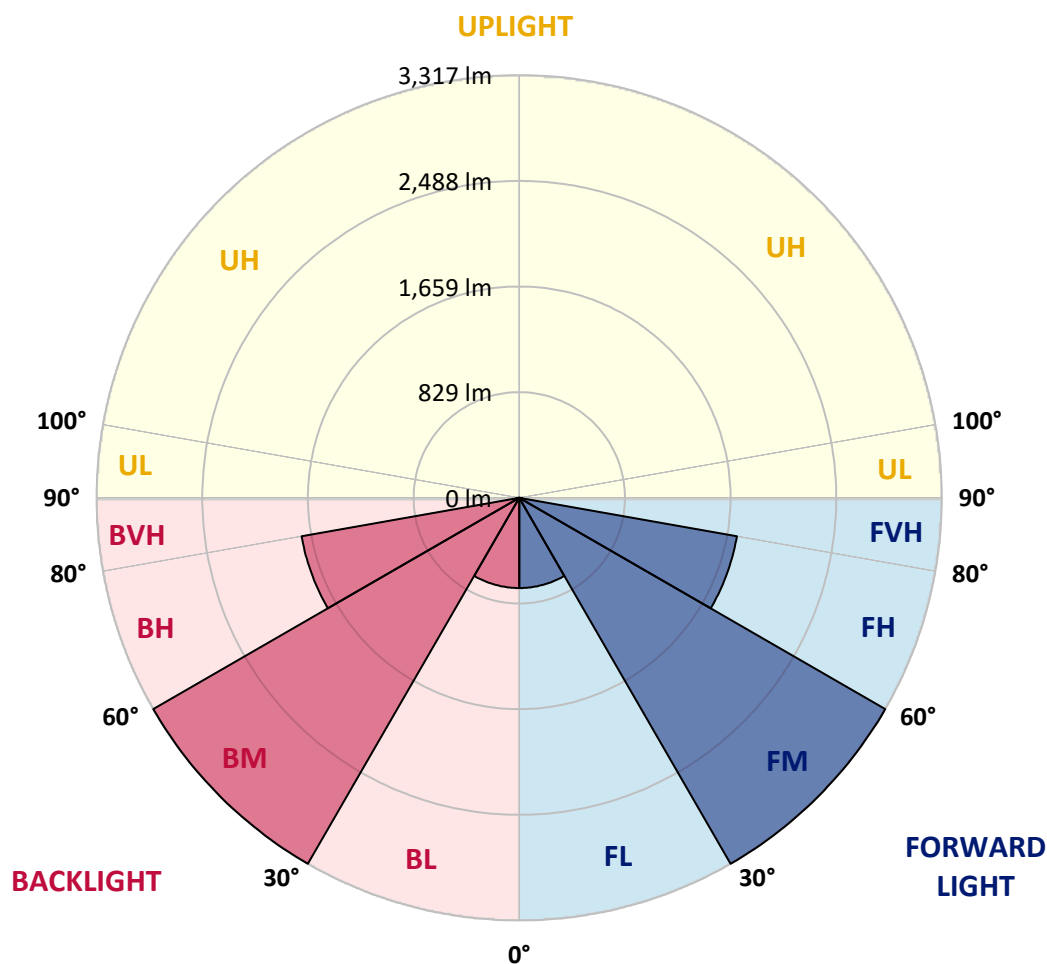
CATALOG NUMBER: NAV-SB1D-740-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	708.1	6.1			
FM	(30°-60°)	3317.5	28.7			
FH	(60°-80°)	1735.2	15.0			G1/1800
FVH	(80°-90°)	22.7	0.2			G1/100
BL	(0°-30°)	708.1	6.1	B2/1000		
BM	(30°-60°)	3317.5	28.7	B3/5000		
BH	(60°-80°)	1735.2	15.0	B3/2500		G1/1800
BVH	(80°-90°)	22.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



REPORT NUMBER: P960893

CATALOG NUMBER: NAV-SB1D-740-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6
2.5°	1385.9	1381.3	1384.8	1381.8	1379.5	1377.2	1378.3	1382.4	1384.2	1384.8	1384.8
5°	1404.5	1400.4	1402.1	1402.1	1398.1	1396.9	1397.5	1400.4	1403.8	1403.8	1403.8
7.5°	1434.6	1430.6	1434.6	1432.3	1428.8	1427.7	1427.1	1429.5	1434.6	1434.6	1432.8
10°	1471.2	1466.6	1468.9	1467.7	1463.7	1462.0	1461.3	1464.8	1469.4	1468.9	1467.7
12.5°	1511.3	1506.0	1508.9	1505.4	1504.3	1502.5	1502.5	1501.9	1504.9	1502.5	1503.7
15°	1555.9	1552.5	1553.6	1551.3	1553.1	1551.8	1547.2	1544.9	1546.1	1542.6	1543.1
17.5°	1608.7	1600.6	1604.6	1603.5	1603.5	1605.9	1598.3	1595.4	1597.8	1594.3	1597.2
20°	1669.7	1661.5	1663.3	1661.0	1658.0	1660.4	1651.1	1653.4	1655.2	1652.8	1658.0
22.5°	1736.5	1726.0	1725.4	1726.5	1720.2	1720.8	1714.4	1720.2	1723.6	1717.3	1723.6
25°	1804.9	1793.9	1801.4	1798.6	1790.4	1792.1	1787.5	1793.3	1796.2	1788.1	1797.3
27.5°	1877.5	1869.9	1876.9	1878.6	1868.8	1875.7	1868.8	1874.0	1876.9	1864.7	1874.0
30°	1962.2	1954.7	1961.0	1965.6	1954.1	1965.1	1959.3	1962.8	1963.4	1948.8	1957.5
32.5°	2054.5	2042.8	2059.1	2061.4	2048.7	2062.0	2054.5	2059.1	2062.0	2042.3	2055.6
35°	2167.1	2152.5	2171.2	2168.2	2157.2	2168.2	2161.2	2168.2	2175.2	2151.4	2165.9
37.5°	2288.3	2273.2	2293.0	2287.8	2277.3	2284.8	2280.8	2285.4	2296.5	2270.9	2286.6
40°	2421.9	2403.2	2430.0	2420.6	2410.8	2409.7	2411.9	2414.9	2429.4	2401.0	2410.2
42.5°	2564.5	2544.9	2584.9	2570.4	2556.5	2547.2	2554.7	2560.6	2574.5	2542.5	2559.3
45°	2727.6	2705.1	2757.2	2739.8	2717.8	2698.6	2710.8	2719.5	2739.8	2701.6	2721.3
47.5°	2907.6	2882.1	2937.8	2932.5	2896.5	2854.7	2882.6	2907.6	2922.7	2876.3	2891.9
50°	3083.4	3063.7	3136.8	3143.2	3099.1	3040.5	3079.4	3117.1	3121.1	3060.2	3067.7
52.5°	3248.2	3228.5	3334.7	3374.8	3335.4	3265.6	3306.9	3345.2	3314.4	3235.5	3237.8
55°	3380.0	3363.7	3498.9	3602.3	3615.6	3558.2	3582.6	3581.4	3480.4	3359.1	3363.1
57.5°	3411.9	3409.6	3580.2	3799.0	3938.3	3945.2	3897.0	3774.0	3556.4	3393.4	3382.9
60°	3266.8	3281.3	3515.7	3901.8	4273.1	4427.5	4219.2	3868.0	3469.9	3243.6	3217.0
62.5°	2832.7	2871.0	3153.6	3776.4	4543.6	4982.3	4477.4	3725.3	3114.8	2819.4	2801.9
65°	2030.1	2096.8	2409.1	3222.7	4519.2	5469.8	4440.3	3196.6	2432.2	2091.6	2066.6
67.5°	921.1	988.9	1254.2	2206.5	3928.4	5337.5	3919.2	2229.7	1316.8	992.4	977.8
70°	333.7	345.3	430.6	883.3	2510.6	4252.8	2618.0	889.7	457.9	368.0	363.3
72.5°	201.9	203.7	221.7	316.3	872.3	2582.0	909.4	326.8	226.3	200.8	204.3
75°	128.2	127.1	157.8	193.2	309.3	871.1	324.4	193.2	157.2	143.4	144.5
77.5°	92.2	95.2	113.2	144.5	195.0	295.4	191.5	138.2	113.2	92.9	94.6
80°	69.1	70.8	82.4	112.5	136.9	184.0	121.9	102.2	85.3	58.0	59.8
82.5°	49.9	49.9	54.0	81.8	83.5	99.2	66.1	72.0	56.3	41.2	41.2
85°	29.6	29.0	33.6	48.8	43.6	36.6	30.1	44.1	35.4	25.5	24.9
87.5°	10.5	11.1	10.5	13.9	11.6	9.8	9.3	12.2	9.8	8.7	8.1
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)