

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: P881867

Luminaire Tested: **NAV-SB1C-722-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5918 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

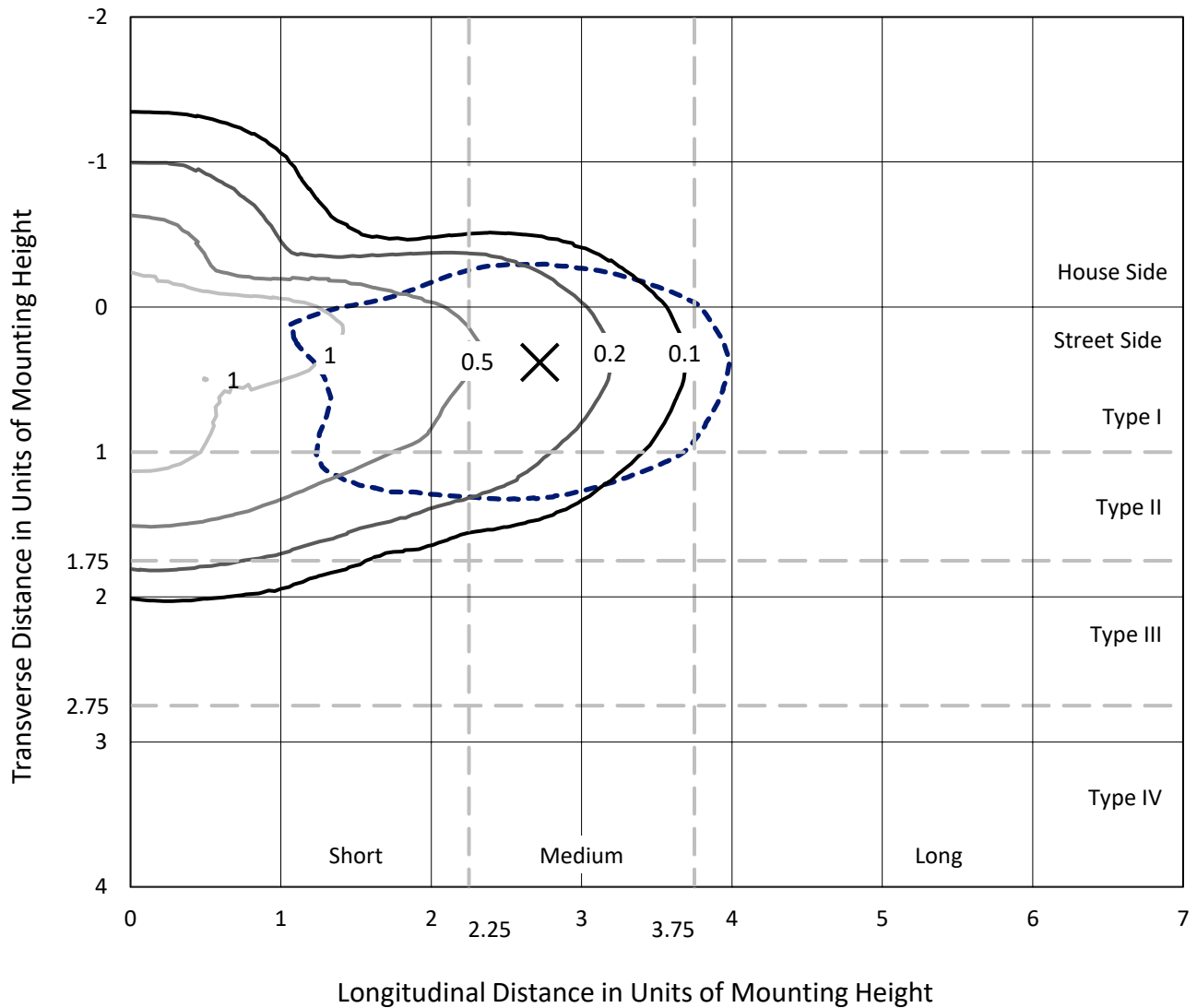
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

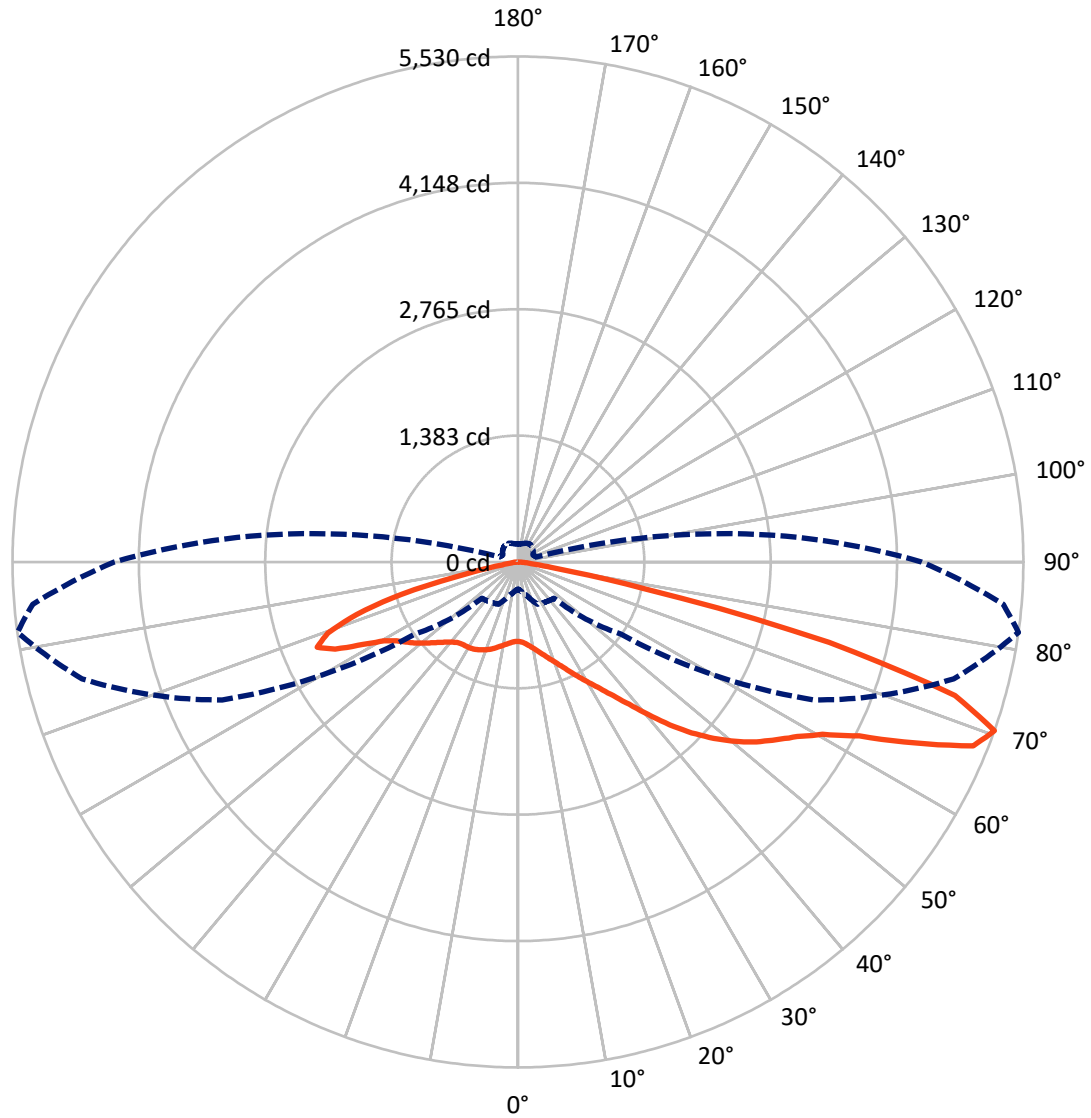
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1458.9	0.0	1458.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	4459.1	0.0	4459.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	5918.0	0.0	5918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	1.4
10°-20°	235.4	4.0
20°-30°	393.7	6.7
30°-40°	615.1	10.4
40°-50°	979.7	16.6
50°-60°	1363.3	23.0
60°-70°	1426.1	24.1
70°-80°	745.4	12.6
80°-90°	77.4	1.3
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°	5918.0	100.0
0°-180°	5918.0	100.0

Coefficient of Utilization

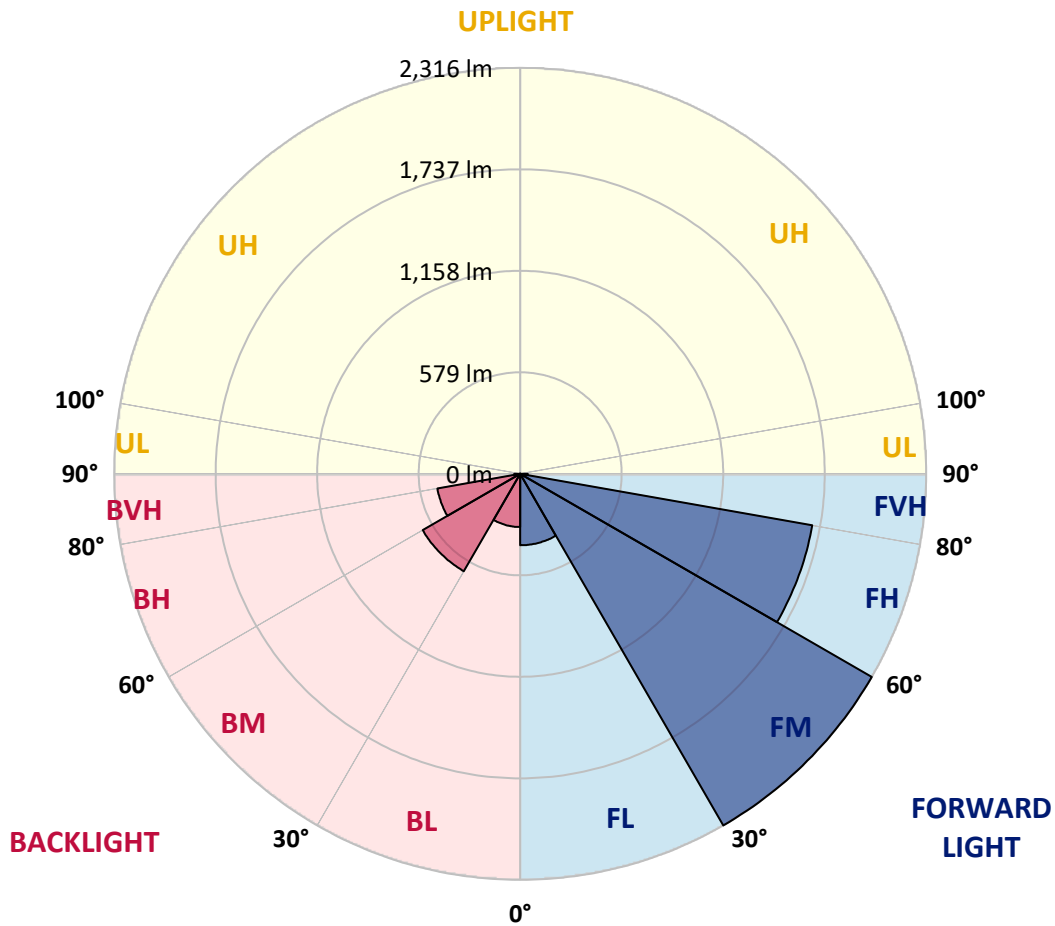


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.5	6.9			
FM (30°-60°)	2316.3	39.1			
FH (60°-80°)	1692.0	28.6			G1/1800
FVH (80°-90°)	43.3	0.7			G1/100
BL (0°-30°)	303.5	5.1	B1/500		
BM (30°-60°)	641.9	10.8	B1/1000		
BH (60°-80°)	479.5	8.1	B1/500		G1/500
BVH (80°-90°)	34.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7
2.5°	888.4	893.4	891.8	890.3	890.3	888.1	887.8	884.6	882.1	878.0	877.1
5°	899.7	905.0	904.4	905.6	909.7	910.7	911.6	909.7	904.7	899.7	897.5
7.5°	889.6	895.6	897.5	905.0	917.6	928.9	937.4	940.8	936.1	928.9	925.4
10°	855.7	862.3	868.9	886.8	909.1	935.8	958.4	971.9	971.0	964.1	958.1
12.5°	786.9	793.9	808.0	842.8	883.7	930.8	972.9	1001.1	1010.8	1005.8	995.5
15°	732.0	738.0	748.6	784.4	837.5	909.1	978.2	1033.1	1058.0	1055.1	1042.6
17.5°	730.4	732.9	739.5	756.5	797.3	875.2	972.5	1064.5	1112.0	1111.7	1095.9
20°	758.1	759.0	762.8	766.2	789.5	849.4	958.1	1090.6	1172.6	1172.6	1155.6
22.5°	796.4	795.7	799.5	796.4	807.7	847.2	949.0	1113.5	1240.1	1245.1	1223.8
25°	853.8	850.7	849.8	842.5	844.7	867.7	959.0	1139.6	1320.2	1330.5	1303.8
27.5°	930.5	925.4	922.0	905.3	899.7	909.7	989.8	1171.0	1409.3	1427.2	1393.3
30°	1030.3	1021.2	1016.2	987.3	966.9	968.5	1036.3	1212.8	1502.6	1531.5	1488.5
32.5°	1166.6	1152.5	1139.0	1091.6	1054.2	1041.9	1096.3	1270.5	1603.7	1649.9	1594.6
35°	1319.2	1307.9	1293.5	1220.3	1162.8	1134.6	1177.3	1351.3	1722.1	1795.3	1723.4
37.5°	1466.2	1456.5	1463.4	1364.8	1290.6	1249.5	1283.4	1459.6	1868.1	1976.2	1884.8
40°	1618.2	1610.6	1611.6	1517.4	1431.0	1384.9	1412.2	1595.6	2035.5	2191.3	2078.8
42.5°	1783.4	1777.7	1758.9	1675.3	1578.3	1535.3	1560.4	1752.6	2215.1	2436.2	2291.8
45°	1968.3	1964.9	1947.3	1851.5	1740.3	1692.0	1725.9	1925.9	2395.7	2666.7	2505.6
47.5°	2128.2	2131.0	2128.8	2048.1	1932.8	1861.9	1902.4	2106.8	2563.7	2883.4	2710.7
50°	2205.1	2219.8	2241.5	2216.4	2144.8	2072.6	2080.4	2281.4	2723.9	3086.6	2907.2
52.5°	2164.9	2192.8	2251.9	2292.1	2319.7	2304.6	2283.6	2454.7	2874.6	3269.9	3093.2
55°	2015.1	2054.4	2152.3	2249.4	2390.4	2500.0	2527.6	2646.9	3021.6	3431.4	3269.0
57.5°	1742.2	1806.0	1893.9	2090.2	2327.6	2594.5	2812.1	2913.5	3177.3	3603.8	3453.0
60°	1274.3	1359.7	1469.0	1761.1	2107.7	2543.9	3054.2	3323.0	3398.7	3827.0	3692.6
62.5°	815.5	868.3	968.8	1243.9	1642.4	2284.9	3128.3	3834.9	3774.0	4193.2	4051.9
65°	558.3	592.3	684.3	838.8	1061.7	1700.8	2929.9	4218.6	4370.0	4773.5	4666.1
67.5°	405.7	431.5	510.0	645.3	691.8	1006.5	2273.5	4201.0	4949.4	5371.4	5204.3
70°	295.8	314.0	380.0	510.0	532.3	559.9	1377.3	3571.1	4936.8	5530.3	5330.3
72.5°	219.2	231.8	276.0	395.7	430.8	378.1	681.7	2595.4	4242.2	5002.1	4841.6
75°	158.6	168.0	200.7	302.7	344.8	288.0	340.1	1516.7	2959.1	3518.7	3546.9
77.5°	121.2	128.4	149.8	221.7	276.0	216.0	211.0	697.8	1403.1	1410.0	1489.1
80°	97.3	102.1	113.7	156.1	211.7	161.7	137.5	281.7	443.4	375.3	393.8
82.5°	71.6	79.4	96.1	109.6	151.4	111.5	83.8	142.3	168.6	145.1	146.3
85°	40.8	46.2	58.1	78.5	96.7	68.1	48.0	63.1	78.5	64.4	57.5
87.5°	14.4	18.8	20.4	30.8	42.1	28.3	18.5	18.2	25.8	19.2	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7
2.5°	873.9	872.4	866.1	857.6	848.8	840.3	837.5	831.5	827.5	825.3	827.8
5°	891.5	886.5	871.7	852.9	833.1	811.8	796.7	782.9	772.8	763.4	767.2
7.5°	916.6	907.8	882.4	849.4	814.3	778.8	752.4	732.3	718.8	710.0	711.9
10°	945.8	932.3	893.4	844.1	789.8	738.9	707.8	690.5	682.1	677.4	678.6
12.5°	979.4	960.3	904.7	831.9	752.4	694.3	673.0	667.9	668.2	668.6	669.2
15°	1020.9	994.2	913.8	805.2	703.7	660.1	656.3	664.5	673.0	677.0	676.7
17.5°	1067.7	1030.0	915.4	761.2	656.0	638.1	650.0	667.6	680.5	686.1	687.4
20°	1117.9	1066.4	904.1	699.0	616.7	620.2	641.6	664.2	678.3	685.5	687.4
22.5°	1175.4	1105.4	877.1	633.7	584.7	600.7	625.9	647.8	662.6	669.8	671.7
25°	1241.0	1149.0	834.7	578.7	557.1	578.7	603.9	622.1	634.0	640.6	642.5
27.5°	1313.9	1194.6	778.2	535.1	532.9	556.1	576.9	591.0	597.3	602.3	604.2
30°	1387.1	1236.0	709.7	502.1	511.9	533.8	548.6	554.9	556.8	557.7	559.9
32.5°	1466.2	1271.8	637.8	474.8	491.8	512.2	521.0	523.8	515.0	509.0	510.9
35°	1562.0	1310.1	567.4	453.1	472.0	489.6	492.4	489.9	479.5	467.3	467.9
37.5°	1680.4	1357.8	511.2	437.8	453.5	465.1	461.6	461.0	461.9	447.5	448.4
40°	1825.4	1420.0	470.1	425.8	438.4	440.9	431.2	436.5	441.2	419.2	419.9
42.5°	1986.5	1495.1	444.0	417.7	425.8	419.9	404.8	410.7	410.1	381.2	380.9
45°	2150.8	1576.7	434.9	411.7	414.2	402.3	385.6	387.2	374.0	347.9	348.9
47.5°	2314.1	1664.3	440.6	406.7	399.8	386.3	373.4	366.5	347.0	327.5	327.5
50°	2474.2	1756.3	461.3	396.6	380.0	372.1	362.7	350.5	329.7	313.1	311.8
52.5°	2622.7	1849.0	484.5	380.0	355.2	359.9	353.9	339.8	319.4	302.4	302.7
55°	2763.4	1941.6	493.6	357.0	331.9	349.2	345.7	319.7	295.2	281.4	280.1
57.5°	2916.7	2053.1	483.6	327.8	313.1	336.9	323.8	294.9	280.7	270.4	269.4
60°	3129.0	2228.0	461.9	291.7	295.2	318.7	296.1	284.2	268.8	257.2	256.6
62.5°	3481.6	2554.3	427.1	255.9	274.1	291.7	282.9	271.0	255.3	244.0	244.0
65°	4002.9	3007.7	361.4	228.0	250.6	265.4	268.8	256.9	240.5	228.6	229.2
67.5°	4442.5	3292.2	273.5	204.7	226.4	244.0	253.7	242.1	224.8	213.2	213.5
70°	4418.3	3085.6	208.8	181.8	205.1	223.0	235.5	226.4	207.9	196.9	197.8
72.5°	3924.4	2581.3	168.9	158.6	183.4	201.0	216.0	209.1	190.3	179.6	179.6
75°	2883.1	1832.3	135.0	135.0	156.4	178.1	194.7	190.3	173.0	165.5	163.3
77.5°	1215.3	768.7	105.8	112.1	130.0	152.9	173.7	175.2	160.2	169.6	153.9
80°	323.1	212.0	80.7	88.2	102.1	126.2	151.0	150.4	134.1	125.3	116.5
82.5°	123.1	83.5	57.5	62.2	73.8	96.7	119.6	123.4	107.1	92.6	92.6
85°	47.4	35.8	35.5	37.4	43.0	64.1	90.4	93.6	80.7	68.5	70.7
87.5°	12.2	10.7	13.2	12.6	19.8	34.2	51.8	53.7	49.3	28.6	40.8
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)