

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: P881939

Luminaire Tested: **NAV-SB1C-827-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6094 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

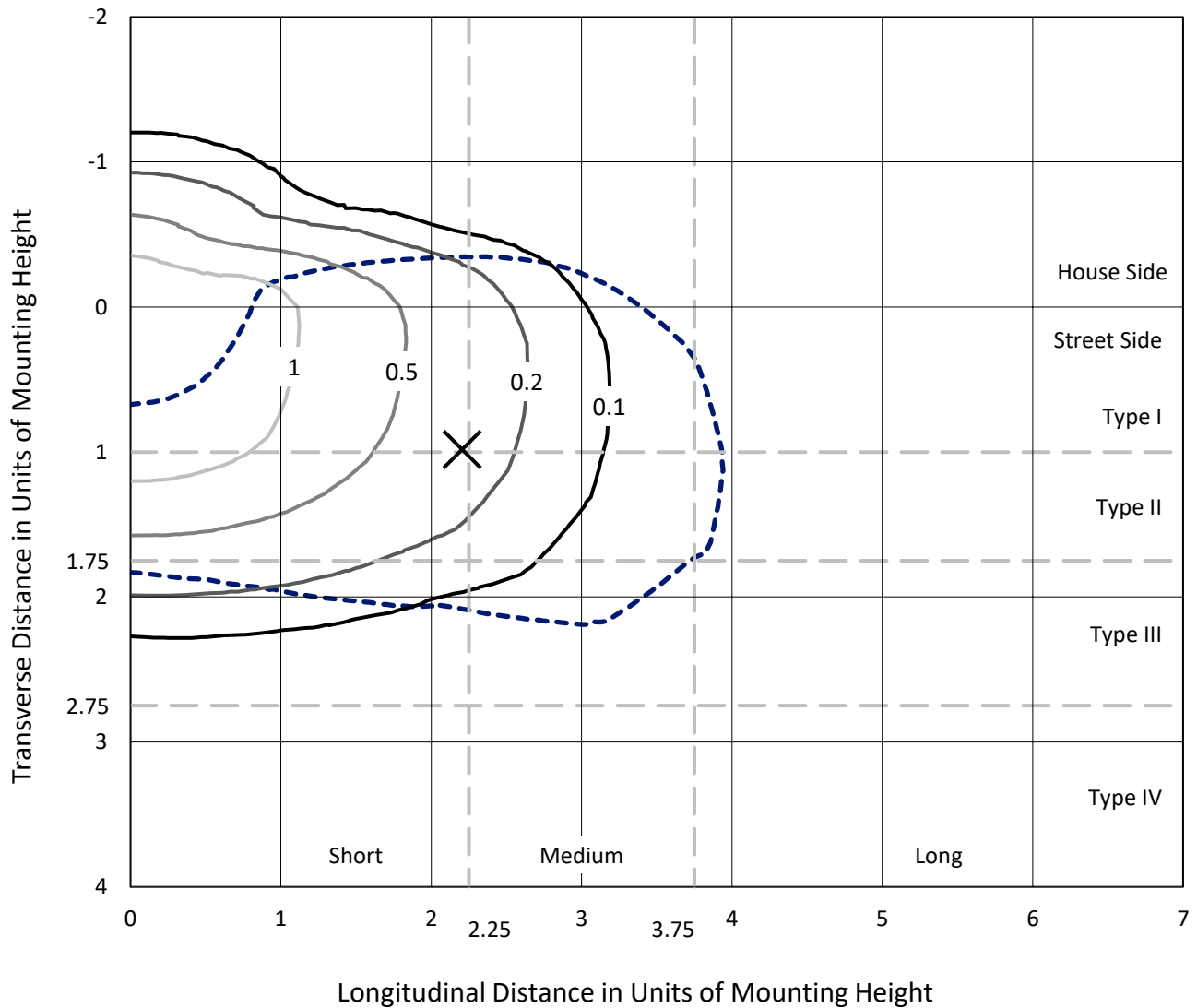
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

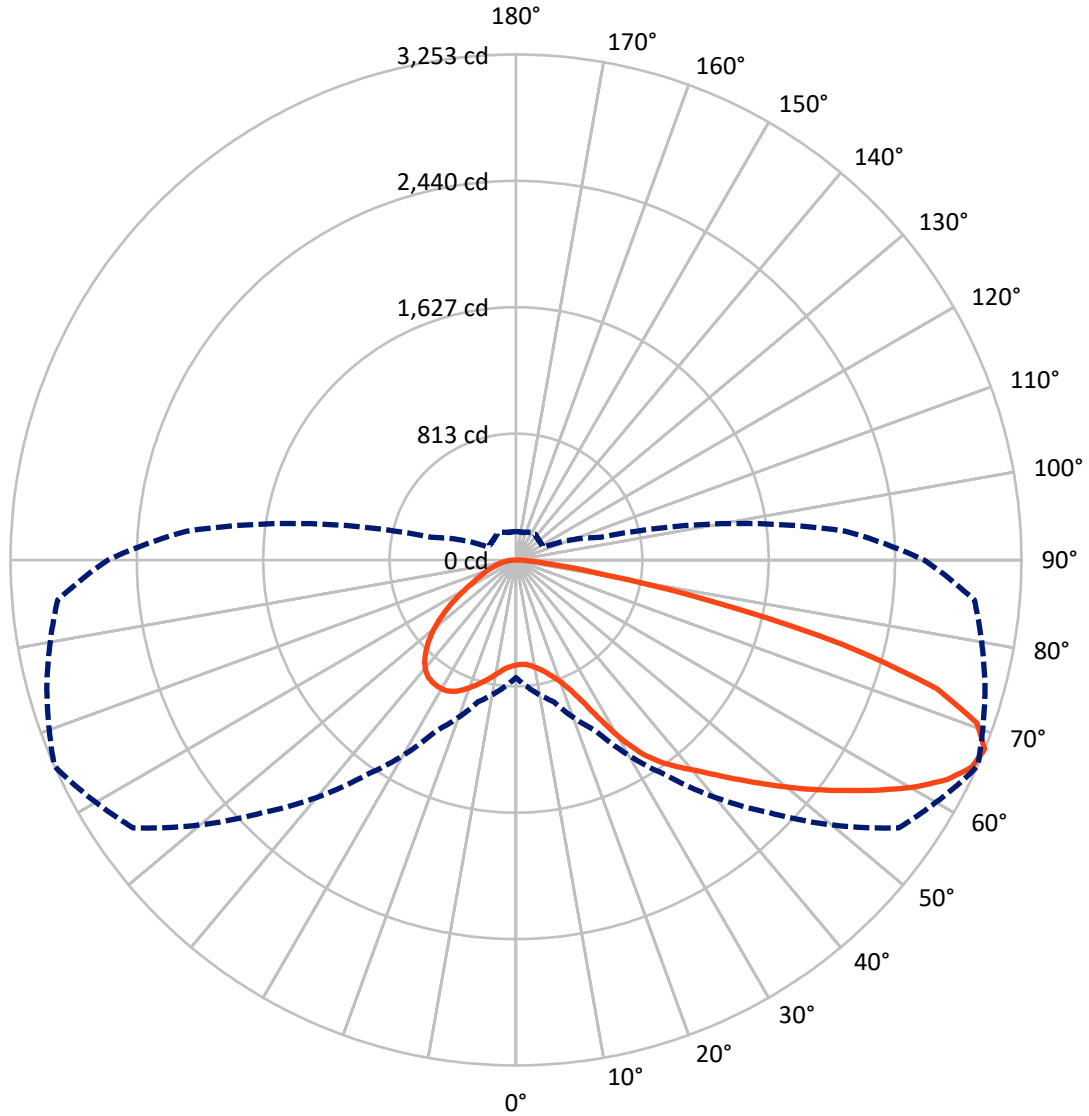
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

REPORT NUMBER: P881939
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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1515.3	0.0	1515.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4578.7	0.0	4578.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	6094.0	0.0	6094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	1.1
10°-20°	221.4	3.6
20°-30°	426.7	7.0
30°-40°	748.2	12.3
40°-50°	1112.4	18.3
50°-60°	1410.1	23.1
60°-70°	1379.7	22.6
70°-80°	658.1	10.8
80°-90°	70.3	1.2
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°	6094.0	100.0
0°-180°	6094.0	100.0

Coefficient of Utilization

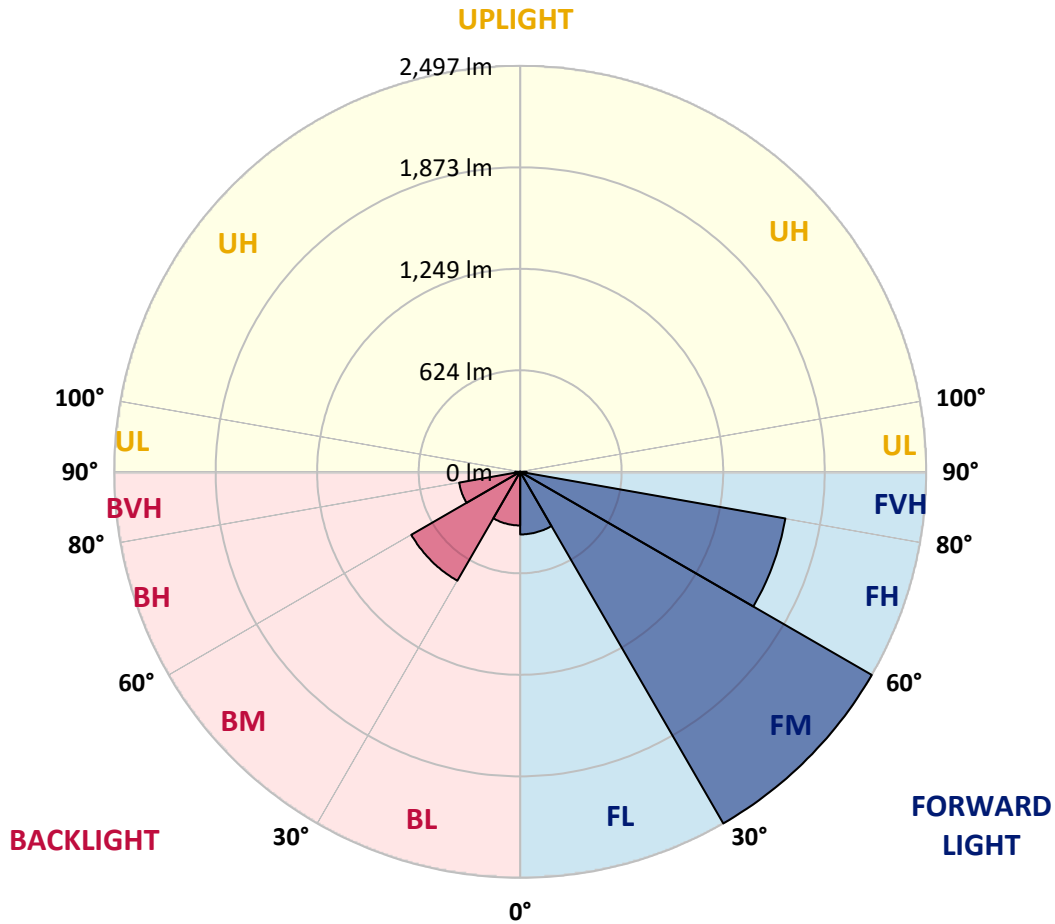


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.1	6.3			
FM (30°-60°)	2497.3	41.0			
FH (60°-80°)	1656.5	27.2			G1/1800
FVH (80°-90°)	39.9	0.7			G1/100
BL (0°-30°)	330.1	5.4	B1/500		
BM (30°-60°)	773.4	12.7	B1/1000		
BH (60°-80°)	381.3	6.3	B1/500		G1/500
BVH (80°-90°)	30.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Short



REPORT NUMBER: P881939
 CATALOG NUMBER: NAV-SB1C-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9
2.5°	668.9	672.7	671.7	670.1	669.8	670.5	671.4	672.4	672.1	673.7	676.2
5°	666.9	670.8	670.5	670.5	671.7	674.3	675.9	677.5	675.9	677.8	681.3
7.5°	668.2	671.1	672.4	673.7	676.9	681.7	685.5	689.0	687.1	689.4	693.8
10°	684.6	686.8	688.1	688.1	690.3	695.8	699.6	706.0	704.4	707.9	713.7
12.5°	714.3	716.6	716.6	715.3	716.9	720.4	721.7	728.7	725.9	731.6	737.4
15°	750.8	755.3	751.8	749.5	750.2	753.7	753.4	758.8	756.0	760.8	765.9
17.5°	791.2	796.9	791.2	790.9	789.6	793.4	793.7	798.5	793.4	796.9	800.5
20°	838.9	846.9	842.1	843.7	840.8	842.4	844.0	851.0	843.0	845.6	844.6
22.5°	906.1	915.7	910.6	916.7	914.8	913.5	913.2	925.6	913.2	914.1	904.8
25°	1004.1	1015.6	1006.7	1015.0	1015.0	1019.1	1023.9	1040.0	1019.1	1013.1	989.0
27.5°	1148.8	1160.3	1142.7	1147.9	1146.3	1156.5	1151.4	1191.1	1168.7	1158.7	1110.4
30°	1323.0	1343.5	1310.2	1308.9	1307.3	1323.6	1331.0	1357.3	1334.5	1324.6	1266.3
32.5°	1511.3	1532.7	1493.0	1481.5	1475.4	1485.3	1479.2	1500.4	1484.7	1469.3	1397.3
35°	1710.4	1731.5	1693.8	1671.4	1647.0	1626.2	1604.4	1609.9	1595.1	1571.8	1497.2
37.5°	1898.7	1937.4	1897.4	1873.4	1828.6	1787.9	1727.1	1701.8	1688.0	1666.5	1591.3
40°	2090.5	2112.6	2082.1	2061.7	2013.0	1949.3	1851.9	1798.5	1779.9	1759.1	1695.4
42.5°	2231.7	2252.8	2236.5	2222.4	2184.3	2110.3	1984.5	1917.6	1890.7	1867.3	1813.2
45°	2343.7	2359.4	2349.2	2354.3	2338.0	2266.3	2121.8	2045.3	2017.5	1989.0	1946.4
47.5°	2388.9	2405.5	2421.9	2452.3	2480.1	2427.3	2269.5	2183.6	2154.2	2125.1	2083.1
50°	2383.8	2400.7	2448.1	2512.8	2599.2	2581.6	2425.1	2330.9	2303.7	2270.4	2231.7
52.5°	2342.8	2362.0	2422.8	2530.4	2668.1	2697.2	2583.6	2483.0	2457.4	2417.7	2379.0
55°	2235.2	2246.7	2338.0	2490.4	2684.4	2777.9	2738.8	2645.0	2619.4	2564.0	2521.8
57.5°	2035.7	2052.4	2185.2	2382.5	2643.4	2832.7	2875.2	2815.4	2790.7	2711.0	2666.8
60°	1775.4	1802.0	1954.1	2201.3	2539.0	2832.3	2999.1	2982.8	2962.3	2855.7	2809.6
62.5°	1480.8	1511.6	1657.9	1945.1	2356.5	2752.0	3076.6	3123.1	3112.5	2989.2	2930.3
65°	1137.3	1158.4	1304.1	1613.7	2072.5	2579.4	3085.6	3218.8	3220.7	3090.7	2993.4
67.5°	757.2	818.1	944.5	1210.9	1692.2	2297.3	3006.8	3234.5	3253.1	3125.6	2961.7
70°	369.5	449.5	573.4	787.0	1210.9	1864.7	2801.0	3105.8	3147.1	3023.8	2772.8
72.5°	153.4	179.3	246.9	388.4	695.1	1258.3	2387.3	2756.8	2833.3	2679.3	2331.2
75°	103.4	112.1	141.2	199.2	316.7	620.5	1721.6	2055.6	2178.8	2023.6	1654.1
77.5°	79.7	85.2	102.8	139.3	188.3	234.7	921.5	1238.8	1302.5	1205.8	860.7
80°	62.8	66.9	76.8	101.5	133.5	125.5	314.1	561.3	598.1	501.7	276.6
82.5°	54.4	56.0	55.1	68.8	88.7	73.3	103.1	207.2	228.6	165.9	90.3
85°	39.4	43.9	45.8	42.6	47.1	37.1	42.3	73.3	80.7	72.0	50.9
87.5°	16.0	23.7	29.1	27.5	17.3	10.6	13.1	21.5	24.7	26.9	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P881939
 CATALOG NUMBER: NAV-SB1C-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9
2.5°	676.5	678.8	680.4	682.3	683.6	685.5	689.4	691.6	691.9	693.5	693.2
5°	682.6	685.8	689.4	694.5	700.2	705.0	712.4	717.5	719.4	721.1	720.7
7.5°	695.8	700.2	706.6	715.6	723.9	730.3	739.3	745.4	751.5	753.7	754.0
10°	715.3	721.7	731.0	743.1	752.1	760.4	769.7	774.8	780.9	783.5	784.8
12.5°	739.6	746.3	758.5	775.5	783.8	789.6	792.8	791.5	792.8	795.0	795.7
15°	767.5	774.8	788.6	806.9	812.6	807.5	800.5	794.1	793.1	793.7	796.0
17.5°	800.5	805.9	821.9	837.3	833.1	812.0	796.6	786.4	781.2	779.6	781.9
20°	846.6	846.6	859.7	869.3	841.4	805.6	781.6	764.9	754.3	749.9	748.9
22.5°	902.6	897.5	905.8	899.1	839.8	787.6	754.3	725.5	709.5	703.1	702.2
25°	973.7	967.6	965.4	923.7	828.3	759.2	705.0	670.1	656.1	652.5	653.2
27.5°	1080.9	1065.6	1036.4	937.2	807.2	714.3	647.4	615.1	607.1	607.4	608.3
30°	1223.7	1193.0	1121.6	939.4	772.6	650.9	588.5	565.4	561.6	563.2	568.6
32.5°	1356.0	1326.8	1208.7	929.2	719.4	588.8	535.7	520.3	514.5	516.5	519.0
35°	1459.7	1451.7	1289.4	914.8	654.1	530.5	488.3	475.2	463.9	461.4	463.3
37.5°	1557.7	1554.5	1349.9	894.6	589.5	489.2	450.2	432.9	416.6	407.6	407.9
40°	1665.3	1662.1	1389.6	863.5	532.1	453.4	415.9	393.2	373.0	356.7	358.3
42.5°	1786.3	1767.4	1408.5	819.0	483.5	423.0	388.1	357.3	330.7	315.7	316.7
45°	1918.5	1875.9	1408.2	762.4	442.5	395.1	358.3	314.7	290.1	276.0	275.4
47.5°	2058.8	1979.7	1390.9	699.6	402.8	364.4	312.2	278.9	262.5	253.9	252.0
50°	2203.5	2076.7	1361.4	627.6	362.1	329.5	283.4	260.6	248.1	240.1	237.3
52.5°	2339.6	2164.8	1325.9	545.9	320.8	295.5	270.6	252.9	239.8	230.9	227.0
55°	2466.0	2240.6	1275.6	462.3	287.2	272.8	264.5	249.7	234.7	224.1	220.0
57.5°	2578.4	2289.9	1188.8	383.9	263.2	257.1	258.1	244.3	227.0	218.0	212.3
60°	2671.9	2326.1	1060.4	311.2	243.7	241.7	248.1	234.1	213.9	203.6	199.2
62.5°	2728.0	2325.5	902.9	254.9	227.0	227.6	235.0	221.2	200.8	191.1	188.3
65°	2723.2	2268.5	730.0	218.0	211.0	211.6	221.2	207.2	189.9	184.1	183.8
67.5°	2626.8	2129.5	560.0	194.0	193.4	196.3	207.5	197.6	183.1	182.5	183.5
70°	2365.8	1841.0	403.4	174.8	175.1	179.3	194.0	191.5	179.6	180.9	180.6
72.5°	1897.1	1403.7	270.9	154.6	155.0	161.7	181.2	186.7	176.1	193.1	195.6
75°	1263.4	875.4	174.2	133.2	133.5	142.2	170.0	177.4	166.5	192.4	194.0
77.5°	607.1	393.5	126.2	112.1	112.1	120.1	147.0	158.8	141.8	149.5	137.0
80°	209.7	147.9	99.3	90.3	88.4	93.8	123.9	137.7	122.3	112.7	105.7
82.5°	82.6	76.8	79.7	70.1	63.7	67.2	96.4	113.7	90.0	81.3	81.0
85°	47.4	49.9	56.4	46.4	36.8	41.3	70.8	81.6	67.9	59.9	61.2
87.5°	12.8	17.6	25.9	24.0	16.6	17.6	33.6	45.1	39.1	30.1	31.1
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)