

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: P881869

Luminaire Tested: **NAV-SB1C-722-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881869
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-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5977 lumens
Efficiency: N/A
Efficacy: 109.9 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

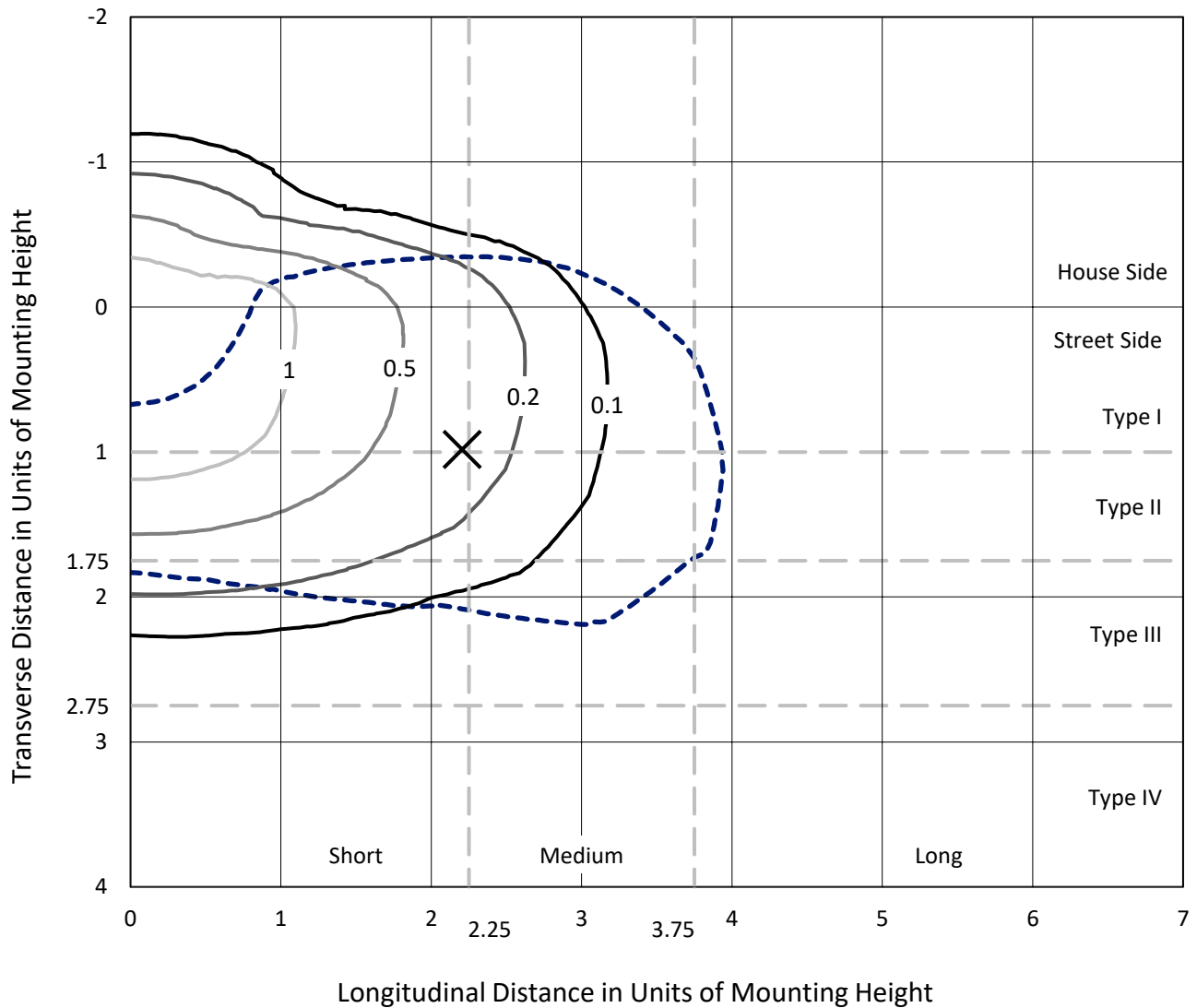
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

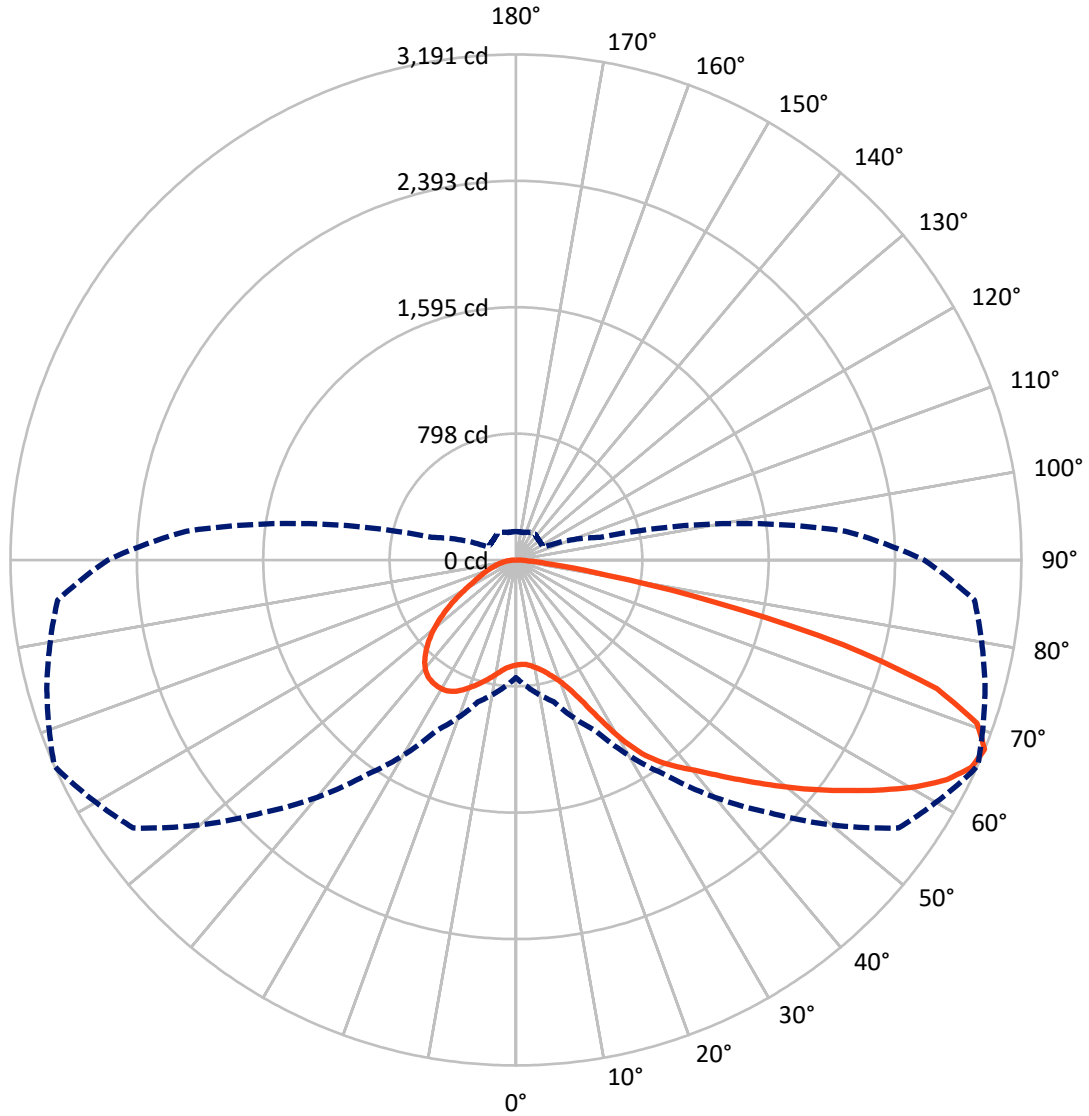
✕ Max cd
 - - - 1/2 Max cd



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

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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	1486.2	0.0	1486.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4490.8	0.0	4490.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	5977.0	0.0	5977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	1.1
10°-20°	217.2	3.6
20°-30°	418.6	7.0
30°-40°	733.9	12.3
40°-50°	1091.0	18.3
50°-60°	1383.0	23.1
60°-70°	1353.2	22.6
70°-80°	645.5	10.8
80°-90°	69.0	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°	5977.0	100.0
0°-180°	5977.0	100.0

Coefficient of Utilization



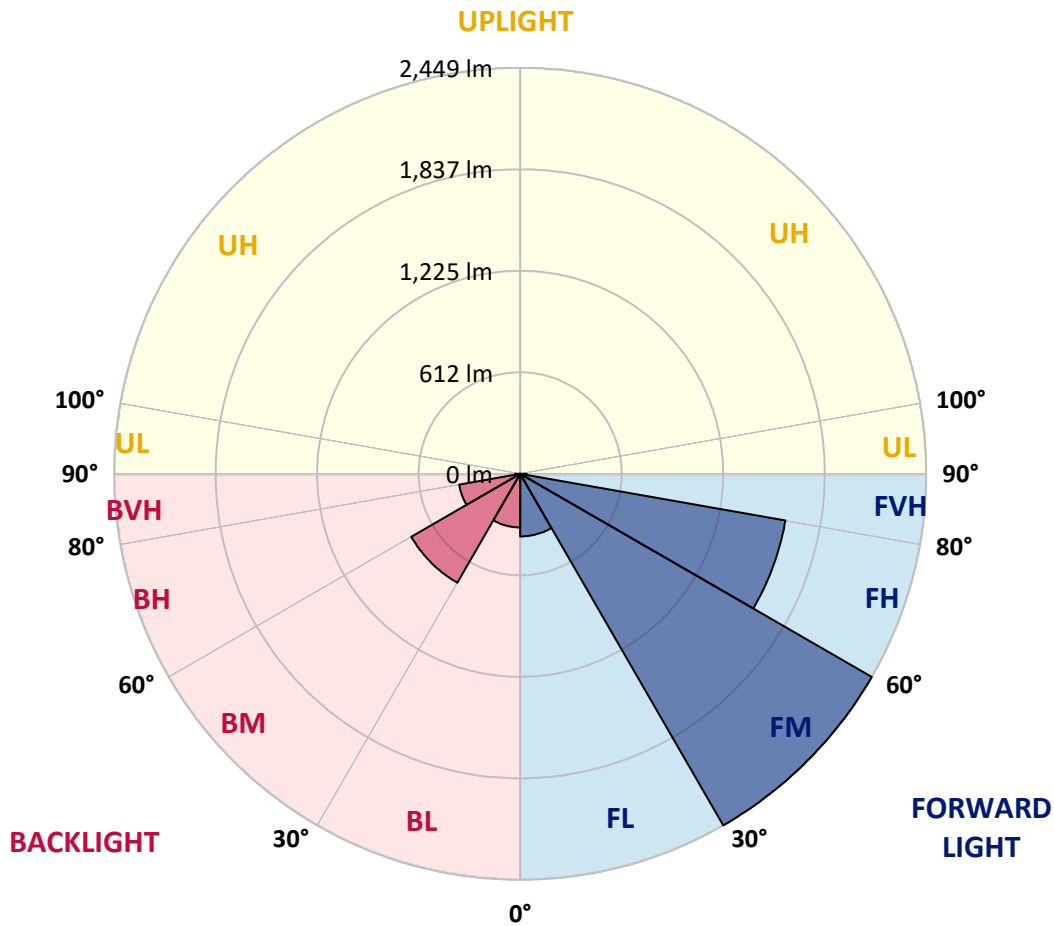
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	377.7	6.3			
FM (30°-60°)	2449.3	41.0			
FH (60°-80°)	1624.7	27.2			G1/1800
FVH (80°-90°)	39.1	0.7			G1/100
BL (0°-30°)	323.7	5.4	B1/500		
BM (30°-60°)	758.6	12.7	B1/1000		
BH (60°-80°)	374.0	6.3	B1/500		G1/500
BVH (80°-90°)	29.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9
2.5°	656.0	659.8	658.8	657.3	657.0	657.6	658.5	659.5	659.2	660.7	663.2
5°	654.1	657.9	657.6	657.6	658.8	661.4	662.9	664.5	662.9	664.8	668.3
7.5°	655.4	658.2	659.5	660.7	663.9	668.6	672.3	675.8	673.9	676.1	680.5
10°	671.4	673.6	674.9	674.9	677.1	682.4	686.2	692.4	690.9	694.3	700.0
12.5°	700.6	702.8	702.8	701.6	703.1	706.6	707.8	714.7	711.9	717.6	723.2
15°	736.4	740.8	737.4	735.2	735.8	739.2	738.9	744.3	741.4	746.1	751.2
17.5°	776.0	781.6	776.0	775.7	774.4	778.2	778.5	783.2	778.2	781.6	785.1
20°	822.8	830.6	825.9	827.5	824.7	826.2	827.8	834.7	826.9	829.4	828.4
22.5°	888.7	898.1	893.1	899.1	897.2	895.9	895.6	907.9	895.6	896.6	887.5
25°	984.8	996.1	987.3	995.5	995.5	999.6	1004.3	1020.0	999.6	993.6	970.1
27.5°	1126.8	1138.1	1120.8	1125.8	1124.2	1134.3	1129.3	1168.2	1146.2	1136.5	1089.1
30°	1297.6	1317.7	1285.0	1283.8	1282.2	1298.2	1305.4	1331.2	1308.9	1299.2	1242.0
32.5°	1482.2	1503.3	1464.3	1453.0	1447.1	1456.8	1450.8	1471.6	1456.2	1441.1	1370.4
35°	1677.6	1698.3	1661.2	1639.3	1615.4	1595.0	1573.6	1579.0	1564.5	1541.6	1468.4
37.5°	1862.2	1900.2	1861.0	1837.4	1793.5	1753.6	1693.9	1669.1	1655.6	1634.6	1560.8
40°	2050.3	2072.0	2042.2	2022.1	1974.3	1911.8	1816.4	1763.9	1745.7	1725.3	1662.8
42.5°	2188.8	2209.6	2193.5	2179.7	2142.3	2069.8	1946.4	1880.8	1854.4	1831.5	1778.4
45°	2298.7	2314.1	2304.1	2309.1	2293.1	2222.7	2081.1	2006.1	1978.7	1950.8	1909.0
47.5°	2343.0	2359.3	2375.4	2405.2	2432.5	2380.7	2225.9	2141.7	2112.8	2084.3	2043.1
50°	2338.0	2354.6	2401.1	2464.5	2549.3	2532.1	2378.5	2286.2	2259.5	2226.8	2188.8
52.5°	2297.8	2316.6	2376.3	2481.8	2616.9	2645.4	2533.9	2435.3	2410.2	2371.3	2333.3
55°	2192.3	2203.6	2293.1	2442.6	2632.9	2724.6	2686.3	2594.2	2569.1	2514.8	2473.3
57.5°	1996.6	2013.0	2143.3	2336.7	2592.7	2778.3	2820.0	2761.3	2737.1	2658.9	2615.6
60°	1741.3	1767.4	1916.6	2159.0	2490.3	2778.0	2941.6	2925.6	2905.5	2800.9	2755.7
62.5°	1452.4	1482.6	1626.1	1907.8	2311.3	2699.1	3017.6	3063.1	3052.7	2931.8	2874.1
65°	1115.5	1136.2	1279.1	1582.7	2032.7	2529.9	3026.4	3157.0	3158.9	3031.4	2935.9
67.5°	742.7	802.4	926.4	1187.7	1659.7	2253.2	2949.1	3172.4	3190.6	3065.6	2904.8
70°	362.4	440.9	562.4	771.9	1187.7	1828.9	2747.2	3046.1	3086.7	2965.7	2719.5
72.5°	150.4	175.9	242.1	380.9	681.8	1234.2	2341.4	2703.8	2778.9	2627.8	2286.5
75°	101.4	109.9	138.5	195.3	310.6	608.6	1688.6	2016.1	2137.0	1984.7	1622.3
77.5°	78.2	83.5	100.8	136.6	184.7	230.2	903.8	1215.0	1277.5	1182.7	844.1
80°	61.6	65.6	75.4	99.5	131.0	123.1	308.1	550.5	586.6	492.1	271.3
82.5°	53.4	55.0	54.0	67.5	87.0	71.9	101.1	203.2	224.2	162.7	88.6
85°	38.6	43.0	44.9	41.8	46.2	36.4	41.5	71.9	79.1	70.7	49.9
87.5°	15.7	23.2	28.6	27.0	17.0	10.4	12.9	21.0	24.2	26.4	16.3
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°	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9
2.5°	663.6	665.8	667.3	669.2	670.5	672.3	676.1	678.3	678.6	680.2	679.9
5°	669.5	672.7	676.1	681.1	686.8	691.5	698.7	703.8	705.6	707.2	706.9
7.5°	682.4	686.8	693.1	701.9	710.0	716.3	725.1	731.1	737.0	739.2	739.6
10°	701.6	707.8	716.9	728.9	737.7	745.8	754.9	760.0	765.9	768.4	769.7
12.5°	725.4	732.0	743.9	760.6	768.8	774.4	777.6	776.3	777.6	779.7	780.4
15°	752.7	760.0	773.5	791.4	797.0	792.0	785.1	778.8	777.9	778.5	780.7
17.5°	785.1	790.4	806.1	821.2	817.1	796.4	781.3	771.3	766.2	764.7	766.9
20°	830.3	830.3	843.2	852.6	825.3	790.1	766.6	750.2	739.9	735.5	734.5
22.5°	885.3	880.2	888.4	881.8	823.7	772.5	739.9	711.6	695.9	689.6	688.7
25°	955.0	949.0	946.8	906.0	812.4	744.6	691.5	657.3	643.5	640.0	640.6
27.5°	1060.2	1045.1	1016.5	919.2	791.7	700.6	635.0	603.3	595.4	595.7	596.7
30°	1200.2	1170.1	1100.1	921.4	757.8	638.4	577.2	554.6	550.8	552.4	557.7
32.5°	1329.9	1301.4	1185.5	911.3	705.6	577.5	525.4	510.3	504.7	506.5	509.1
35°	1431.7	1423.8	1264.6	897.2	641.6	520.4	478.9	466.0	455.0	452.5	454.4
37.5°	1527.8	1524.6	1324.0	877.4	578.1	479.8	441.5	424.6	408.6	399.8	400.1
40°	1633.3	1630.2	1362.9	847.0	521.9	444.7	407.9	385.6	365.9	349.8	351.4
42.5°	1752.0	1733.5	1381.4	803.3	474.2	414.8	380.6	350.5	324.4	309.6	310.6
45°	1881.7	1839.9	1381.1	747.7	434.0	387.5	351.4	308.7	284.5	270.7	270.1
47.5°	2019.2	1941.7	1364.2	686.2	395.1	357.4	306.2	273.5	257.5	249.0	247.1
50°	2161.2	2036.8	1335.3	615.5	355.2	323.1	277.9	255.6	243.4	235.5	232.7
52.5°	2294.7	2123.2	1300.4	535.4	314.7	289.9	265.4	248.1	235.2	226.4	222.7
55°	2418.7	2197.6	1251.1	453.5	281.7	267.6	259.4	244.9	230.2	219.8	215.7
57.5°	2528.9	2246.0	1166.0	376.5	258.1	252.2	253.1	239.6	222.7	213.9	208.2
60°	2620.6	2281.5	1040.1	305.2	239.0	237.1	243.4	229.6	209.8	199.7	195.3
62.5°	2675.6	2280.8	885.6	250.0	222.7	223.3	230.5	217.0	196.9	187.5	184.7
65°	2670.9	2224.9	716.0	213.9	206.9	207.6	217.0	203.2	186.2	180.6	180.3
67.5°	2576.3	2088.6	549.2	190.3	189.7	192.5	203.5	193.8	179.6	179.0	179.9
70°	2320.4	1805.7	395.7	171.5	171.8	175.9	190.3	187.8	176.2	177.4	177.1
72.5°	1860.7	1376.7	265.7	151.7	152.0	158.6	177.7	183.1	172.7	189.4	191.9
75°	1239.2	858.6	170.8	130.6	131.0	139.4	166.8	174.0	163.3	188.7	190.3
77.5°	595.4	385.9	123.7	109.9	109.9	117.8	144.1	155.8	139.1	146.7	134.4
80°	205.7	145.1	97.4	88.6	86.7	92.0	121.5	135.0	120.0	110.5	103.6
82.5°	81.0	75.4	78.2	68.8	62.5	65.9	94.5	111.5	88.2	79.8	79.5
85°	46.5	49.0	55.3	45.5	36.1	40.5	69.4	80.1	66.6	58.7	60.0
87.5°	12.6	17.3	25.4	23.6	16.3	17.3	33.0	44.3	38.3	29.5	30.5
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)