

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: P881864

Luminaire Tested: **NAV-SB1C-722-U-SL4**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881864  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-722-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

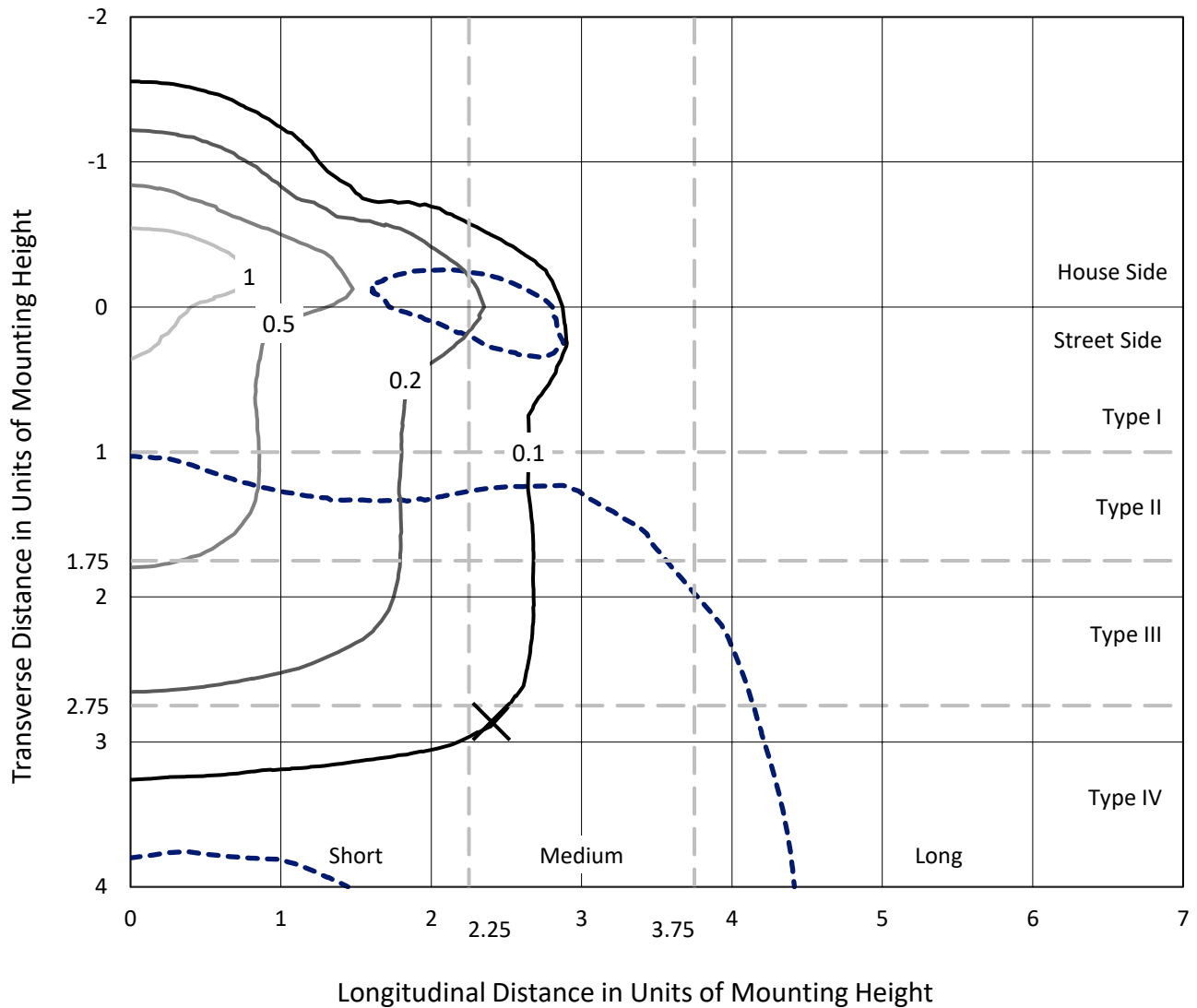
Lumens per Lamp: N/A  
Luminaire Lumens: 5921 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): 120.0  
Input Current (Ain): 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

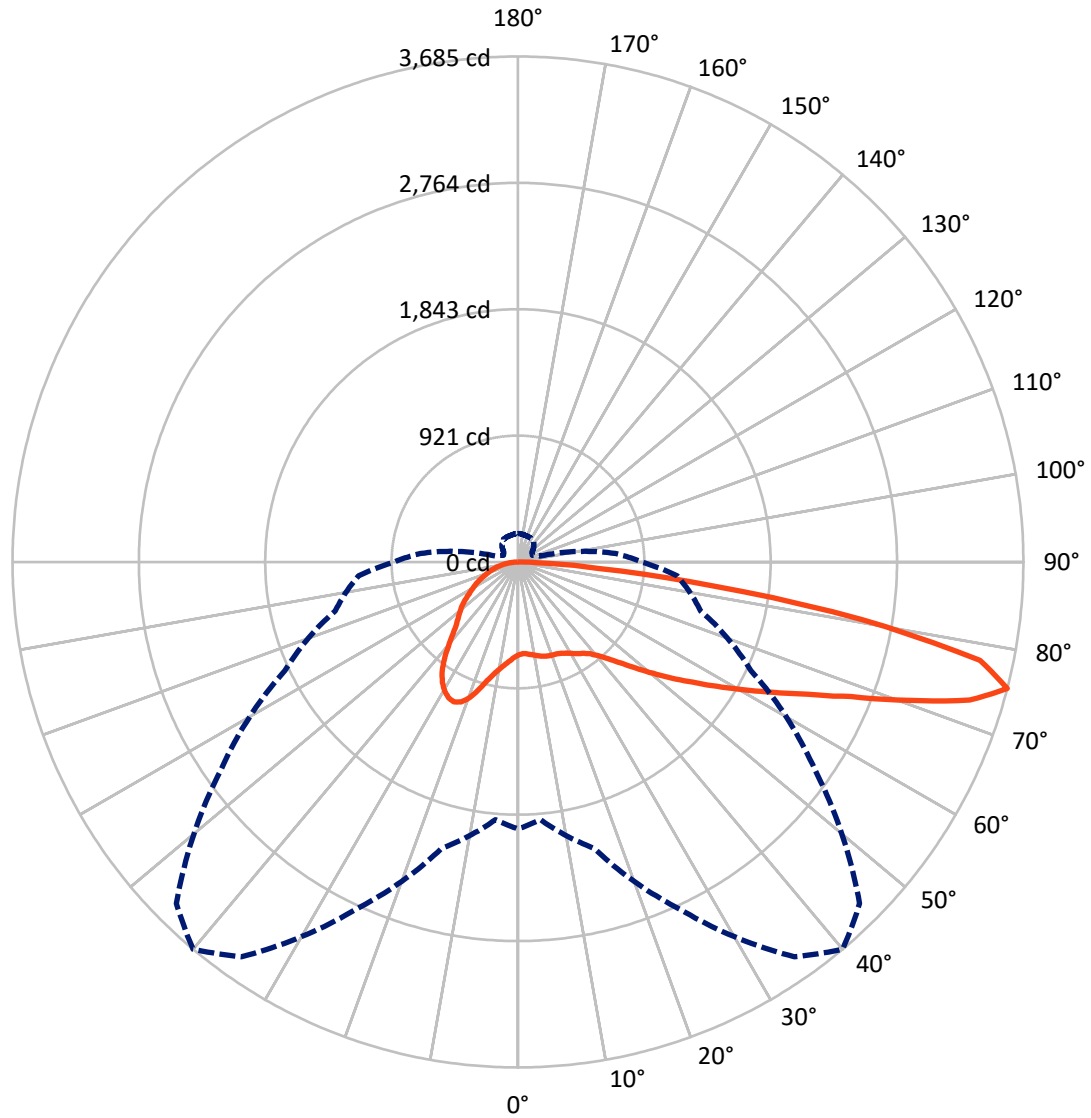
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1834.5	0.0	1834.5
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	4086.5	0.0	4086.5
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	5921.0	0.0	5921.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.6	1.1
10°-20°	226.9	3.8
20°-30°	414.3	7.0
30°-40°	587.6	9.9
40°-50°	793.5	13.4
50°-60°	1067.4	18.0
60°-70°	1354.8	22.9
70°-80°	1229.6	20.8
80°-90°	179.2	3.0
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°	5921.0	100.0
0°-180°	5921.0	100.0

**Coefficient of Utilization**



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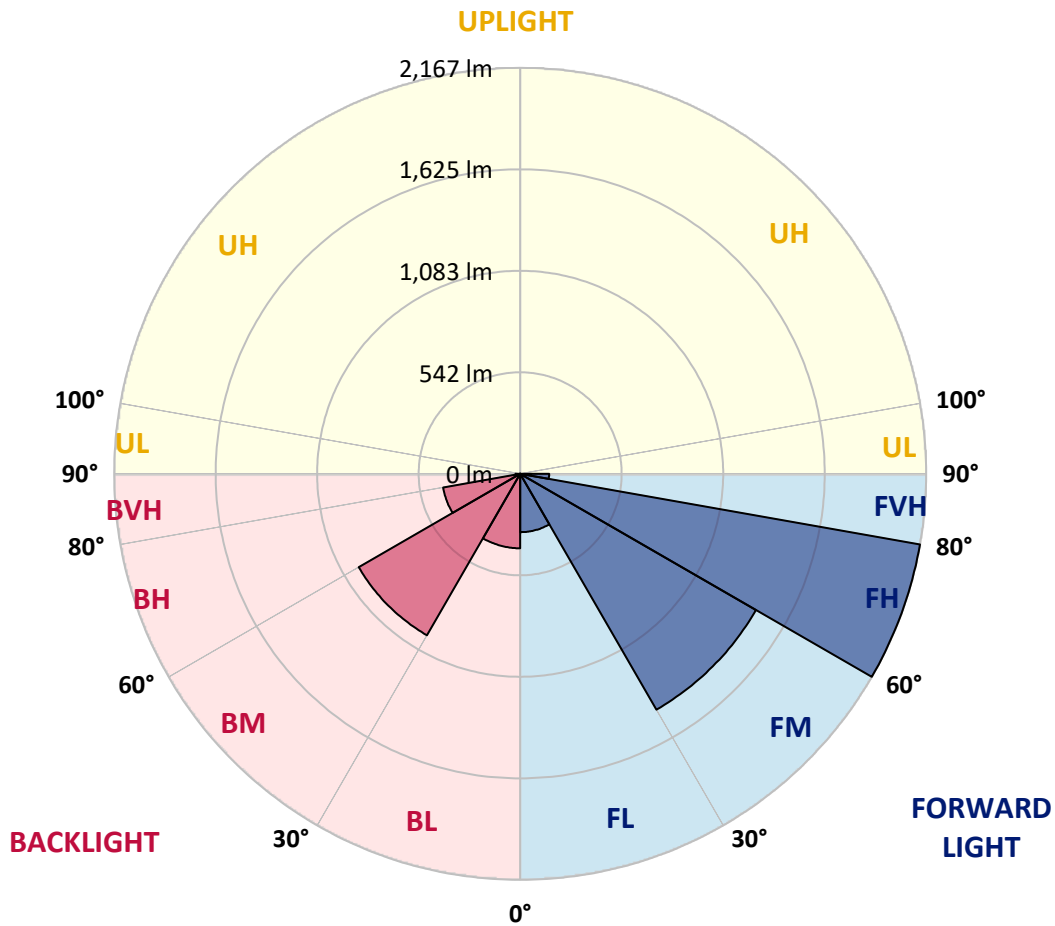
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.5	5.3			
FM (30°-60°)	1453.5	24.5			
FH (60°-80°)	2167.0	36.6			G2/5000
FVH (80°-90°)	154.6	2.6			G2/225
BL (0°-30°)	397.4	6.7	B1/500		
BM (30°-60°)	995.1	16.8	B1/1000		
BH (60°-80°)	417.4	7.0	B1/500		G1/500
BVH (80°-90°)	24.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	677.1	677.1	677.1	677.1	677.1	677.1	677.1	677.1	677.1	677.1	677.1
2.5°	666.7	670.5	669.5	668.3	668.3	668.6	668.3	670.5	672.7	674.9	678.3
5°	673.6	677.4	675.5	673.9	672.7	672.4	671.4	671.1	672.4	675.2	679.9
7.5°	687.1	690.9	688.1	685.2	682.7	681.5	680.2	678.3	677.4	679.0	685.6
10°	702.2	706.0	702.5	697.5	693.4	691.8	690.6	688.7	687.4	688.4	695.6
12.5°	717.3	721.0	716.3	709.4	704.1	703.1	701.6	700.9	700.6	700.3	707.5
15°	731.4	734.5	728.6	720.4	714.8	713.2	711.6	712.6	714.1	716.0	724.2
17.5°	742.4	745.5	736.7	726.1	720.7	720.1	719.2	722.3	726.7	731.4	741.5
20°	752.4	755.6	744.3	729.8	723.6	723.6	723.9	730.5	736.7	743.7	757.5
22.5°	766.6	769.1	755.3	735.5	726.4	727.0	729.5	736.1	744.0	753.4	772.5
25°	787.6	789.5	772.5	746.2	735.8	737.7	739.9	743.0	750.6	761.6	787.3
27.5°	821.5	823.1	800.8	765.0	749.3	752.4	755.6	753.4	756.8	766.3	799.2
30°	869.3	870.2	841.9	794.5	772.2	773.8	774.4	765.3	758.7	766.3	807.7
32.5°	925.8	925.5	891.9	830.3	798.3	796.7	791.4	773.5	758.1	764.7	815.3
35°	1013.4	1010.0	966.6	880.6	827.8	818.1	805.5	782.6	761.2	763.1	821.8
37.5°	1158.5	1147.8	1087.8	962.9	871.8	847.0	828.4	797.4	768.1	762.5	829.7
40°	1322.1	1308.6	1242.7	1075.6	937.7	897.8	868.0	818.4	779.5	765.3	841.3
42.5°	1516.2	1497.0	1426.1	1208.4	1021.3	963.5	918.6	845.1	796.1	774.4	857.0
45°	1754.6	1729.1	1628.6	1358.2	1126.5	1049.5	989.5	885.6	821.5	792.0	880.6
47.5°	1995.4	2001.7	1858.8	1529.7	1252.7	1155.7	1078.4	946.5	858.6	820.3	918.6
50°	2251.4	2255.8	2087.8	1719.7	1395.9	1275.6	1178.3	1014.7	910.1	860.5	975.4
52.5°	2451.1	2451.7	2295.6	1918.5	1545.1	1407.5	1286.0	1092.6	969.8	913.9	1051.1
55°	2576.1	2574.5	2441.4	2106.6	1716.6	1546.0	1405.3	1181.1	1042.6	976.7	1146.3
57.5°	2666.8	2662.1	2541.9	2268.3	1899.3	1709.6	1540.4	1281.6	1128.7	1051.4	1271.6
60°	2701.4	2698.6	2610.0	2408.1	2091.5	1890.5	1696.1	1394.0	1226.3	1139.7	1432.7
62.5°	2714.6	2719.9	2676.9	2543.4	2297.2	2090.9	1867.3	1528.4	1336.2	1239.5	1602.6
65°	2761.1	2770.8	2762.0	2720.5	2529.6	2325.5	2094.3	1688.3	1456.2	1346.6	1780.0
67.5°	2853.1	2862.8	2866.6	2932.5	2813.5	2617.9	2377.6	1887.4	1596.6	1457.8	1913.5
70°	2850.9	2848.0	2914.6	3101.2	3169.0	3022.7	2759.5	2132.3	1764.0	1550.1	1930.4
72.5°	2594.9	2572.3	2729.7	3099.3	3464.8	3445.4	3225.8	2448.3	1908.4	1561.4	1675.1
75°	1946.7	1886.4	2164.4	2793.1	3514.1	3685.3	3522.3	2644.2	1874.2	1379.6	1165.7
77.5°	832.5	771.9	1099.5	2067.7	3145.1	3445.0	3250.3	2307.0	1496.1	912.3	572.5
80°	217.9	217.6	332.3	937.4	2138.9	2544.1	2231.9	1489.8	854.8	326.0	158.0
82.5°	90.1	87.9	122.2	364.6	1045.1	1427.6	1165.1	664.5	308.7	88.2	52.4
85°	33.6	33.3	59.4	125.9	368.7	588.8	426.2	169.9	76.9	43.0	23.6
87.5°	9.4	9.1	12.9	43.7	89.8	136.3	72.9	27.9	21.7	17.0	6.9
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°	677.1	677.1	677.1	677.1	677.1	677.1	677.1	677.1	677.1	677.1	677.1
2.5°	679.3	680.8	683.7	685.9	688.7	691.8	696.2	699.1	701.9	703.8	702.5
5°	682.1	685.6	692.8	700.0	708.5	716.3	725.4	732.0	737.4	738.9	739.6
7.5°	688.4	694.0	706.3	718.5	732.0	744.9	758.1	769.4	778.5	782.0	782.3
10°	699.4	706.9	724.2	741.5	759.4	779.1	796.1	812.4	825.3	830.6	831.0
12.5°	713.2	722.6	745.2	769.1	793.9	821.2	843.2	863.3	879.3	886.5	886.5
15°	731.1	743.3	772.2	804.3	840.7	878.7	906.6	928.9	946.8	955.6	955.0
17.5°	750.6	766.9	803.3	851.7	903.8	953.7	986.4	1002.7	1021.3	1029.7	1029.4
20°	769.4	789.5	841.6	912.0	981.4	1034.5	1060.8	1065.2	1066.5	1067.4	1069.9
22.5°	788.9	815.9	889.7	988.0	1062.4	1099.1	1102.9	1084.1	1057.7	1045.4	1048.9
25°	810.2	846.0	952.5	1071.8	1132.1	1136.5	1107.6	1061.8	1011.8	988.9	992.4
27.5°	831.0	880.9	1027.9	1151.9	1182.4	1143.7	1081.6	1016.6	956.3	932.1	934.9
30°	851.7	920.8	1111.1	1221.9	1205.3	1125.8	1040.4	967.9	907.3	881.8	884.7
32.5°	872.7	967.2	1206.9	1272.5	1201.2	1087.8	989.2	913.2	859.8	833.2	836.6
35°	896.6	1024.4	1297.6	1300.1	1173.9	1031.9	921.7	847.9	801.4	780.1	784.8
37.5°	927.7	1096.9	1377.7	1307.0	1126.2	950.0	837.9	770.7	732.3	722.6	729.5
40°	966.3	1184.3	1438.9	1296.1	1055.5	850.4	746.2	692.5	670.8	673.0	680.5
42.5°	1016.6	1281.9	1482.0	1267.8	957.2	747.7	665.8	641.9	652.3	661.1	669.2
45°	1081.9	1383.4	1508.7	1219.7	846.0	660.7	618.3	624.0	631.9	632.8	639.1
47.5°	1165.4	1486.0	1526.2	1147.2	732.7	599.5	588.2	589.5	587.9	581.3	586.3
50°	1269.7	1585.9	1541.9	1051.1	636.2	561.2	546.1	541.7	520.1	498.7	501.5
52.5°	1388.4	1677.6	1548.5	931.8	561.2	529.2	504.7	477.0	436.5	429.9	432.1
55°	1520.3	1762.4	1531.6	785.1	498.1	488.0	451.0	417.7	413.3	407.6	408.6
57.5°	1677.9	1853.8	1497.0	621.5	433.4	440.0	403.9	407.6	399.8	391.0	389.4
60°	1850.3	1948.3	1436.4	472.3	366.5	380.0	391.6	391.3	389.1	381.9	379.4
62.5°	2005.5	2010.5	1317.1	361.8	307.8	333.5	365.2	364.9	363.0	358.9	357.4
65°	2097.8	2001.1	1118.0	284.8	259.4	295.2	329.4	331.9	332.3	331.9	331.9
67.5°	2081.5	1890.8	844.8	226.7	219.5	256.3	293.9	297.4	299.9	300.5	301.2
70°	1896.8	1648.7	550.8	180.9	184.0	222.0	260.3	263.8	266.0	268.5	269.8
72.5°	1478.5	1212.2	315.3	146.3	152.9	192.5	227.1	231.1	232.4	237.1	239.0
75°	901.0	712.9	170.2	115.3	125.6	164.6	194.1	198.8	201.0	206.6	207.3
77.5°	428.4	308.7	97.0	89.8	101.1	134.4	163.9	169.3	163.3	166.4	163.9
80°	144.8	114.6	61.2	68.5	77.3	104.9	131.3	136.6	124.0	123.4	122.2
82.5°	50.6	46.5	38.9	45.5	49.9	75.1	99.2	106.1	92.3	92.0	87.6
85°	19.8	18.8	21.7	24.8	29.8	46.2	65.3	68.8	56.8	45.9	45.2
87.5°	4.1	4.4	5.3	5.7	9.1	16.0	23.6	28.9	22.9	19.5	17.9
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)