

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: P959756

Luminaire Tested: **NAV-SB1B-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-727-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5308.5 lumens
Efficiency: N/A
Efficacy: 133.4 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

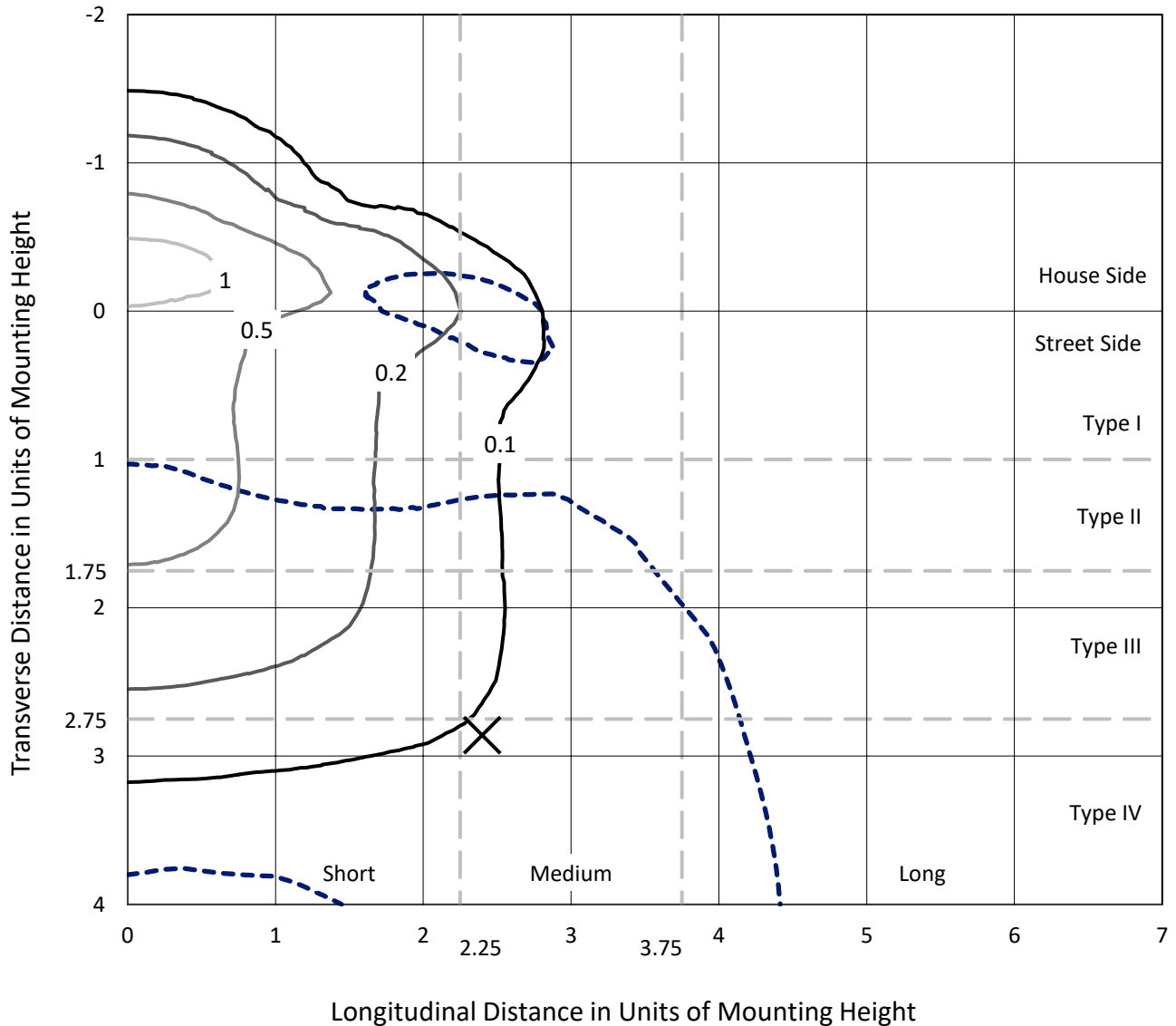
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

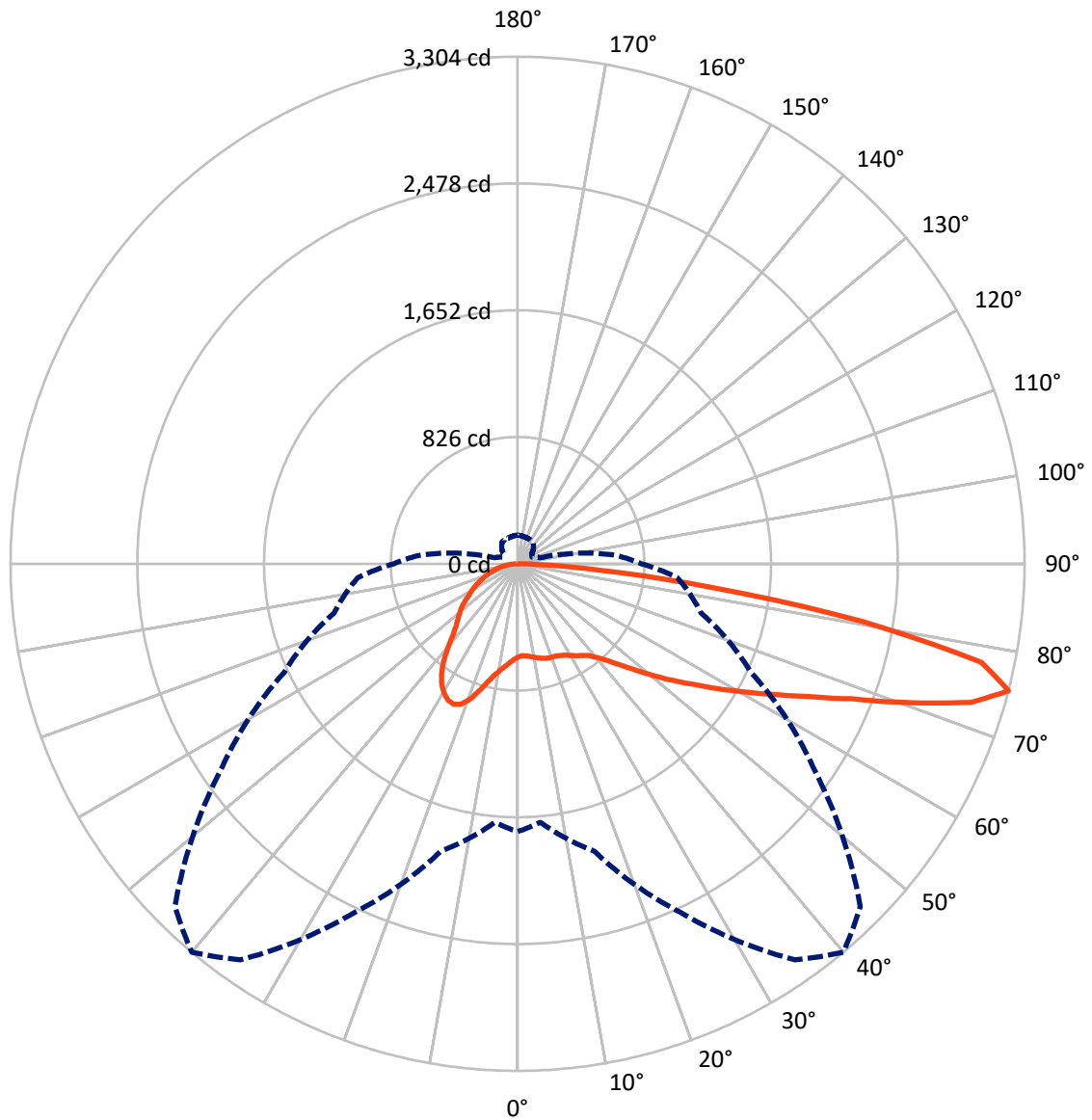
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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
House Side	Lumens	1644.7	0.0	1644.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	3663.7	0.0	3663.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	5308.5	0.0	5308.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	1.1
10°-20°	203.4	3.8
20°-30°	371.5	7.0
30°-40°	526.8	9.9
40°-50°	711.4	13.4
50°-60°	957.0	18.0
60°-70°	1214.7	22.9
70°-80°	1102.4	20.8
80°-90°	160.7	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°	5308.5	100.0
0°-180°	5308.5	100.0

Coefficient of Utilization

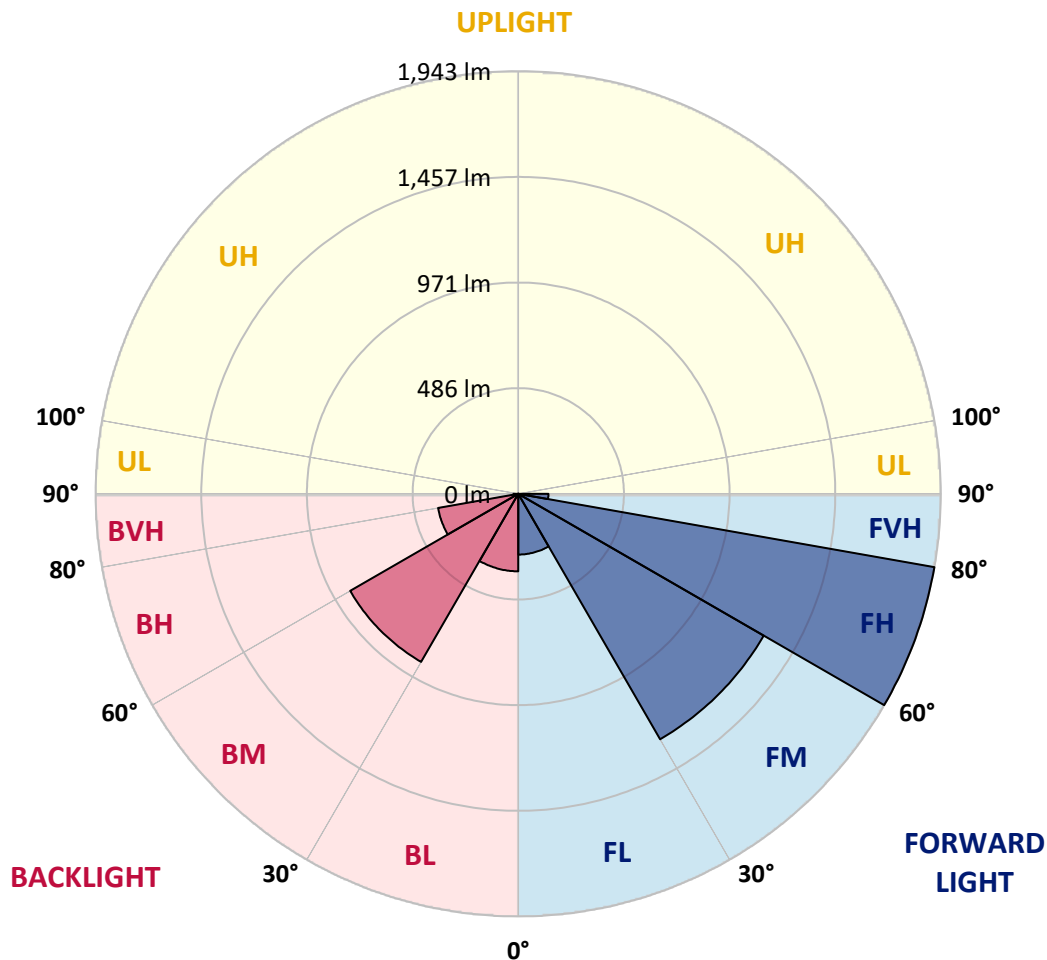


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.2	5.3			
FM (30°-60°)	1303.1	24.5			
FH (60°-80°)	1942.8	36.6			G2/5000
FVH (80°-90°)	138.6	2.6			G2/225
BL (0°-30°)	356.3	6.7	B1/500		
BM (30°-60°)	892.1	16.8	B1/1000		
BH (60°-80°)	374.2	7.0	B1/500		G1/500
BVH (80°-90°)	22.1	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°	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0
2.5°	597.8	601.2	600.2	599.1	599.1	599.4	599.1	601.2	603.1	605.1	608.1
5°	603.9	607.3	605.7	604.2	603.1	602.8	602.0	601.7	602.8	605.4	609.6
7.5°	616.0	619.4	616.8	614.4	612.1	611.0	609.9	608.1	607.3	608.7	614.6
10°	629.6	632.9	629.9	625.4	621.7	620.2	619.1	617.5	616.3	617.2	623.6
12.5°	643.1	646.5	642.3	636.0	631.2	630.4	629.0	628.4	628.1	627.9	634.4
15°	655.7	658.6	653.2	645.9	640.8	639.4	638.0	638.9	640.2	642.0	649.2
17.5°	665.6	668.4	660.5	651.0	646.2	645.6	644.7	647.6	651.5	655.7	664.7
20°	674.7	677.4	667.3	654.4	648.7	648.7	649.0	654.9	660.5	666.8	679.1
22.5°	687.3	689.5	677.1	659.4	651.3	651.8	654.1	660.0	667.0	675.5	692.6
25°	706.1	707.9	692.6	669.0	659.7	661.3	663.4	666.1	672.9	682.8	705.8
27.5°	736.6	738.0	718.0	685.8	671.8	674.7	677.4	675.5	678.6	687.0	716.6
30°	779.3	780.2	754.8	712.4	692.4	693.7	694.3	686.1	680.2	687.0	724.2
32.5°	830.0	829.7	799.6	744.5	715.8	714.3	709.5	693.5	679.7	685.6	730.9
35°	908.6	905.5	866.6	789.5	742.2	733.5	722.2	701.6	682.4	684.2	736.9
37.5°	1038.6	1029.1	975.3	863.3	781.6	759.3	742.7	714.8	688.7	683.6	743.8
40°	1185.3	1173.2	1114.1	964.3	840.7	804.9	778.2	733.7	698.8	686.1	754.3
42.5°	1359.4	1342.1	1278.6	1083.4	915.6	863.8	823.6	757.7	713.7	694.3	768.3
45°	1573.1	1550.2	1460.1	1217.7	1009.9	941.0	887.1	794.0	736.6	710.1	789.5
47.5°	1789.0	1794.7	1666.5	1371.4	1123.1	1036.1	966.9	848.6	769.8	735.4	823.6
50°	2018.4	2022.4	1871.8	1541.8	1251.5	1143.7	1056.4	909.7	815.9	771.4	874.5
52.5°	2197.5	2198.1	2058.2	1720.1	1385.3	1261.9	1152.9	979.5	869.4	819.3	942.4
55°	2309.6	2308.2	2188.8	1888.7	1538.9	1386.1	1259.9	1058.9	934.8	875.7	1027.7
57.5°	2390.9	2386.7	2278.9	2033.7	1702.8	1532.8	1381.0	1149.0	1011.9	942.7	1140.0
60°	2422.0	2419.4	2340.0	2159.0	1875.1	1694.9	1520.7	1249.8	1099.5	1021.7	1284.4
62.5°	2433.8	2438.6	2399.9	2280.3	2059.5	1874.6	1674.1	1370.3	1198.0	1111.3	1436.7
65°	2475.4	2484.2	2476.3	2439.1	2267.9	2085.0	1877.7	1513.6	1305.5	1207.3	1595.8
67.5°	2557.9	2566.6	2570.0	2629.1	2522.4	2347.0	2131.7	1692.2	1431.4	1307.0	1715.5
70°	2555.9	2553.4	2613.1	2780.3	2841.2	2710.0	2474.0	1911.7	1581.5	1389.8	1730.7
72.5°	2326.4	2306.2	2447.3	2778.7	3106.4	3088.9	2892.1	2195.0	1711.0	1399.8	1501.8
75°	1745.4	1691.2	1940.4	2504.2	3150.5	3304.1	3157.9	2370.7	1680.3	1236.9	1045.1
77.5°	746.4	692.1	985.7	1853.7	2819.8	3088.6	2914.1	2068.3	1341.3	817.9	513.3
80°	195.4	195.2	297.9	840.4	1917.7	2280.8	2001.0	1335.7	766.4	292.2	141.7
82.5°	80.8	78.8	109.6	326.9	937.1	1279.9	1044.6	595.7	276.8	79.1	47.0
85°	30.1	29.8	53.2	112.9	330.6	527.9	382.1	152.3	69.0	38.5	21.1
87.5°	8.4	8.2	11.6	39.2	80.6	122.2	65.3	25.0	19.5	15.2	6.1
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°	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0
2.5°	609.0	610.4	612.9	614.9	617.5	620.2	624.2	626.8	629.2	631.0	629.9
5°	611.5	614.6	621.2	627.6	635.2	642.3	650.4	656.3	661.1	662.5	663.1
7.5°	617.2	622.3	633.2	644.2	656.3	667.9	679.7	689.8	697.9	701.1	701.3
10°	627.0	633.8	649.2	664.7	680.8	698.5	713.7	728.4	739.9	744.7	745.0
12.5°	639.4	647.9	668.1	689.5	711.8	736.3	755.9	774.0	788.3	794.8	794.8
15°	655.5	666.5	692.4	721.1	753.7	787.8	812.8	832.8	848.9	856.8	856.2
17.5°	672.9	687.6	720.2	763.6	810.3	855.1	884.4	899.0	915.6	923.2	922.9
20°	689.8	707.9	754.6	817.6	879.9	927.4	951.1	955.0	956.1	957.0	959.3
22.5°	707.2	731.4	797.7	885.8	952.5	985.4	988.8	971.9	948.2	937.3	940.4
25°	726.4	758.5	853.9	960.9	1015.0	1019.0	993.0	951.9	907.1	886.6	889.7
27.5°	745.0	789.8	921.6	1032.8	1060.1	1025.4	969.6	911.4	857.3	835.7	838.1
30°	763.6	825.5	996.1	1095.5	1080.6	1009.4	932.7	867.8	813.4	790.6	793.1
32.5°	782.5	867.2	1082.0	1140.8	1077.0	975.3	886.9	818.8	770.9	746.9	750.1
35°	803.8	918.4	1163.4	1165.6	1052.5	925.2	826.4	760.2	718.5	699.4	703.6
37.5°	831.7	983.5	1235.2	1171.8	1009.6	851.7	751.2	691.0	656.6	647.9	654.1
40°	866.3	1061.7	1290.1	1161.9	946.3	762.5	669.0	620.8	601.4	603.4	610.1
42.5°	911.4	1149.3	1328.6	1136.6	858.1	670.3	596.9	575.5	584.8	592.7	600.0
45°	970.0	1240.2	1352.6	1093.6	758.5	592.3	554.4	559.4	566.5	567.3	573.0
47.5°	1044.9	1332.3	1368.4	1028.5	656.8	537.5	527.4	528.5	527.1	521.1	525.6
50°	1138.4	1421.9	1382.4	942.4	570.4	503.2	489.6	485.6	466.3	447.1	449.7
52.5°	1244.8	1504.1	1388.4	835.4	503.2	474.4	452.4	427.6	391.3	385.4	387.4
55°	1363.0	1580.0	1373.1	703.9	446.6	437.6	404.4	374.4	370.5	365.4	366.3
57.5°	1504.4	1662.0	1342.1	557.2	388.6	394.4	362.0	365.4	358.4	350.5	349.1
60°	1659.0	1746.8	1287.8	423.4	328.6	340.7	351.1	350.9	348.8	342.3	340.1
62.5°	1798.1	1802.5	1180.8	324.3	275.9	299.0	327.5	327.2	325.4	321.8	320.4
65°	1880.8	1794.1	1002.3	255.3	232.6	264.7	295.3	297.6	297.9	297.6	297.6
67.5°	1866.1	1695.2	757.4	203.3	196.8	229.7	263.5	266.6	268.9	269.5	270.0
70°	1700.6	1478.2	493.8	162.2	165.0	199.1	233.4	236.5	238.5	240.8	241.9
72.5°	1325.5	1086.8	282.7	131.2	137.1	172.6	203.6	207.3	208.4	212.6	214.2
75°	807.8	639.1	152.6	103.3	112.6	147.5	174.0	178.2	180.2	185.2	185.8
77.5°	384.1	276.8	87.0	80.6	90.6	120.5	147.0	151.8	146.4	149.2	147.0
80°	129.8	102.8	54.9	61.4	69.3	94.0	117.7	122.5	111.2	110.7	109.6
82.5°	45.3	41.7	35.0	40.8	44.8	67.3	89.0	95.1	82.8	82.5	78.5
85°	17.7	16.9	19.5	22.2	26.8	41.4	58.5	61.7	50.9	41.1	40.6
87.5°	3.7	3.9	4.8	5.0	8.2	14.3	21.1	25.9	20.6	17.4	16.1
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)