

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: P881884

Luminaire Tested: **NAV-SB1C-730-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881884
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-730-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 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: 7314 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

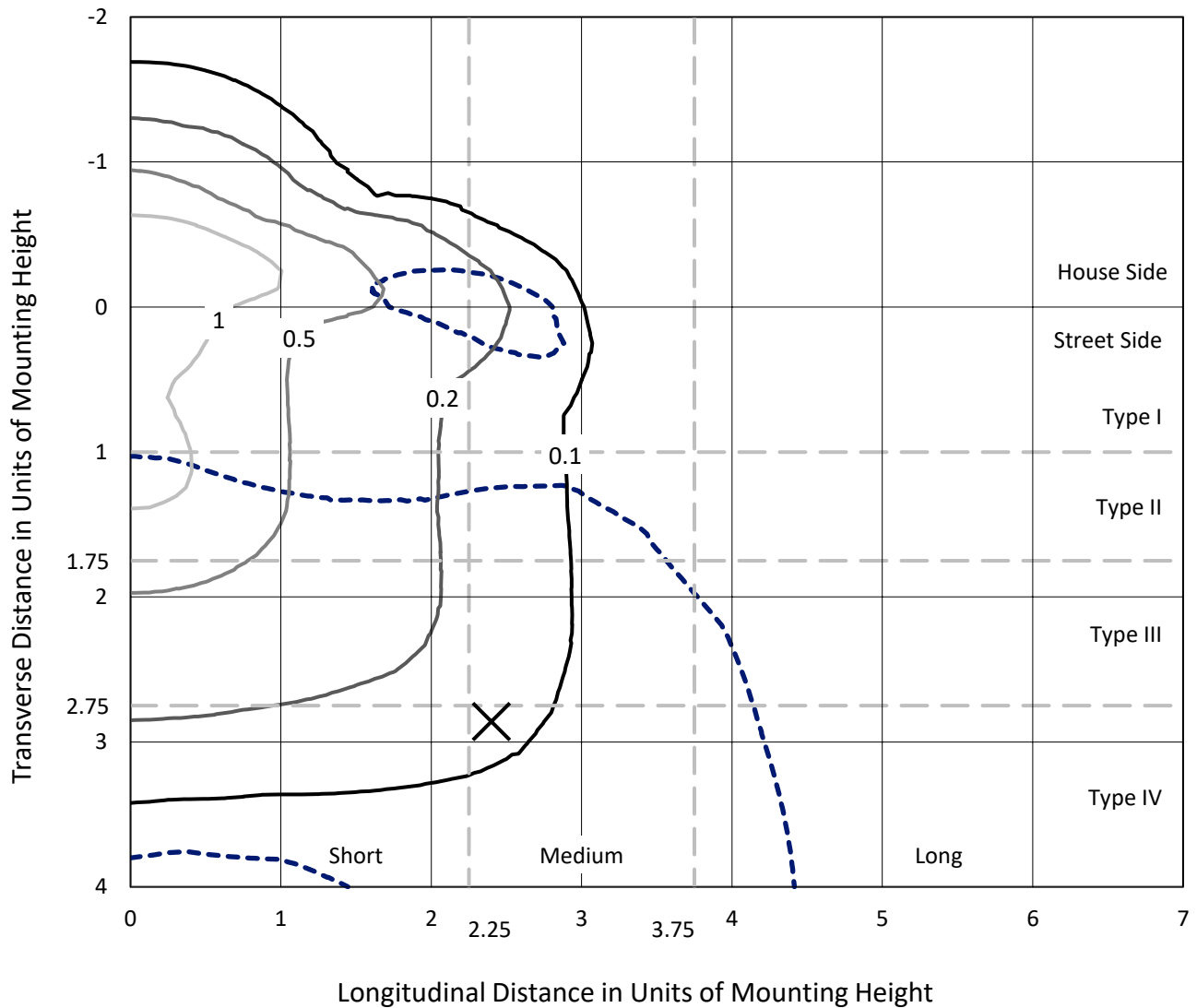
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P881884
 CATALOG NUMBER: NAV-SB1C-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

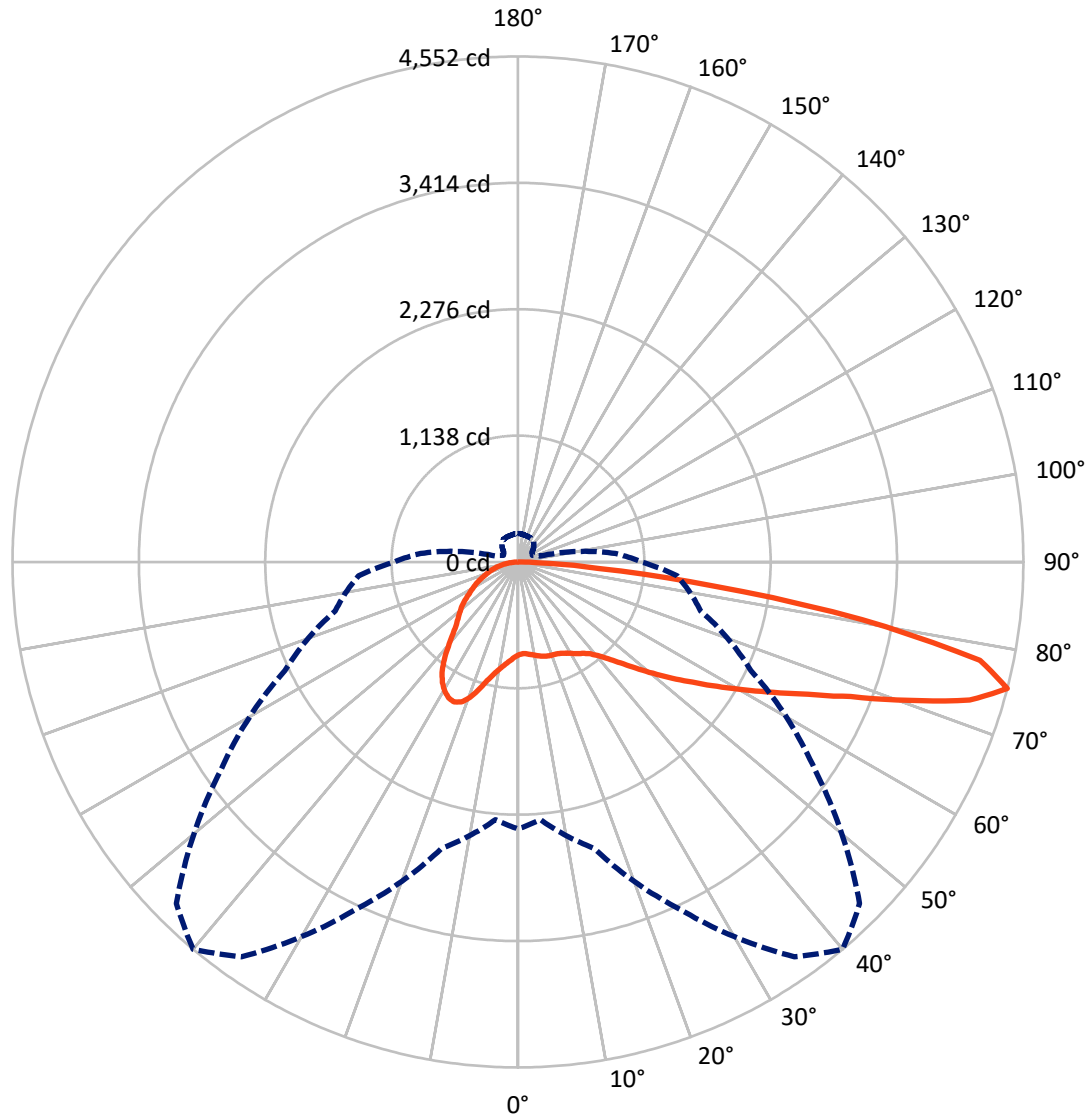
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P881884
CATALOG NUMBER: NAV-SB1C-730-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P881884

CATALOG NUMBER: NAV-SB1C-730-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2266.1	0.0	2266.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5047.9	0.0	5047.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	7314.0	0.0	7314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	1.1
10°-20°	280.3	3.8
20°-30°	511.8	7.0
30°-40°	725.9	9.9
40°-50°	980.1	13.4
50°-60°	1318.6	18.0
60°-70°	1673.6	22.9
70°-80°	1518.9	20.8
80°-90°	221.4	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°	7314.0	100.0
0°-180°	7314.0	100.0

Coefficient of Utilization



REPORT NUMBER: P881884

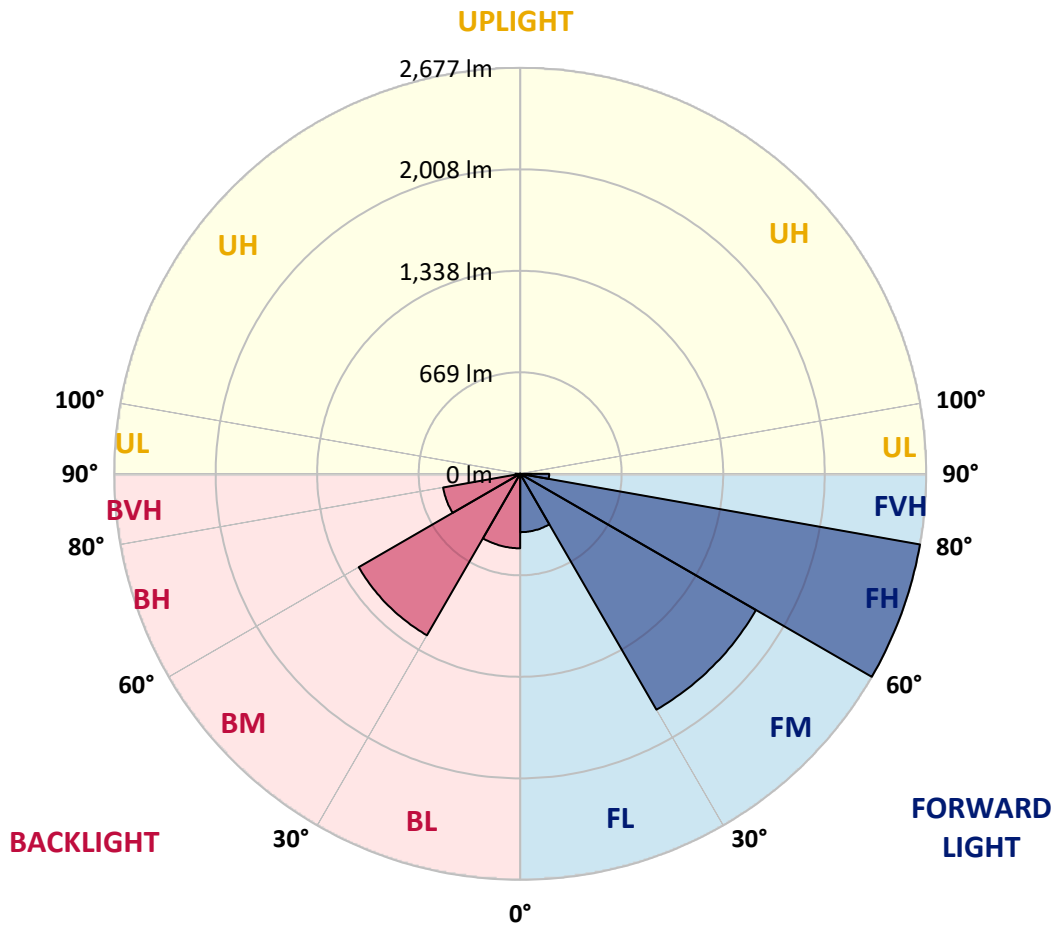
CATALOG NUMBER: NAV-SB1C-730-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.7	5.3			
FM (30°-60°)	1795.4	24.5			
FH (60°-80°)	2676.8	36.6			G2/5000
FVH (80°-90°)	190.9	2.6			G2/225
BL (0°-30°)	490.9	6.7	B1/500		
BM (30°-60°)	1229.2	16.8	B2/2500		
BH (60°-80°)	515.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	30.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium



REPORT NUMBER: P881884

CATALOG NUMBER: NAV-SB1C-730-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4
2.5°	823.6	828.2	827.1	825.5	825.5	825.9	825.5	828.2	830.9	833.7	837.9
5°	832.1	836.8	834.4	832.5	830.9	830.5	829.4	829.0	830.5	834.0	839.9
7.5°	848.8	853.4	849.9	846.5	843.3	841.8	840.2	837.9	836.8	838.7	846.8
10°	867.4	872.1	867.8	861.6	856.5	854.6	853.0	850.7	849.2	850.3	859.3
12.5°	886.0	890.7	884.9	876.3	869.7	868.6	866.6	865.8	865.5	865.1	874.0
15°	903.5	907.4	900.0	889.9	882.9	881.0	879.0	880.2	882.1	884.5	894.6
17.5°	917.1	920.9	910.1	896.9	890.3	889.5	888.3	892.2	897.7	903.5	915.9
20°	929.5	933.3	919.4	901.5	893.8	893.8	894.2	902.3	910.1	918.6	935.7
22.5°	946.9	950.0	933.0	908.5	897.3	898.0	901.1	909.3	919.0	930.6	954.3
25°	972.9	975.2	954.3	921.7	908.9	911.2	914.0	917.8	927.1	940.7	972.5
27.5°	1014.8	1016.8	989.2	945.0	925.6	929.5	933.3	930.6	934.9	946.5	987.3
30°	1073.8	1074.9	1040.0	981.4	953.9	955.8	956.6	945.4	937.2	946.5	997.7
32.5°	1143.6	1143.2	1101.7	1025.7	986.1	984.2	977.6	955.5	936.5	944.6	1007.1
35°	1251.8	1247.6	1194.0	1087.7	1022.6	1010.5	995.0	966.7	940.3	942.7	1015.2
37.5°	1431.1	1417.9	1343.8	1189.4	1076.9	1046.2	1023.3	984.9	948.9	941.9	1024.9
40°	1633.2	1616.5	1535.0	1328.6	1158.3	1109.1	1072.2	1010.9	962.8	945.4	1039.3
42.5°	1872.9	1849.2	1761.6	1492.7	1261.5	1190.2	1134.7	1043.9	983.4	956.6	1058.6
45°	2167.3	2135.9	2011.8	1677.8	1391.5	1296.4	1222.4	1093.9	1014.8	978.3	1087.7
47.5°	2464.9	2472.6	2296.1	1889.6	1547.4	1427.6	1332.1	1169.2	1060.6	1013.3	1134.7
50°	2781.0	2786.5	2578.9	2124.3	1724.3	1575.8	1455.5	1253.4	1124.2	1062.9	1204.9
52.5°	3027.8	3028.5	2835.7	2369.8	1908.6	1738.7	1588.6	1349.6	1197.9	1128.9	1298.4
55°	3182.1	3180.2	3015.7	2602.2	2120.4	1909.8	1736.0	1459.0	1287.9	1206.4	1415.9
57.5°	3294.3	3288.4	3139.9	2802.0	2346.2	2111.9	1902.8	1583.1	1394.2	1298.8	1570.7
60°	3336.9	3333.4	3224.0	2974.6	2583.6	2335.3	2095.2	1722.0	1514.8	1407.8	1769.7
62.5°	3353.2	3359.8	3306.7	3141.8	2837.7	2582.8	2306.6	1888.0	1650.6	1531.1	1979.6
65°	3410.6	3422.7	3411.8	3360.6	3124.7	2872.6	2587.1	2085.5	1798.8	1663.4	2198.8
67.5°	3524.3	3536.3	3541.0	3622.4	3475.4	3233.7	2937.0	2331.4	1972.2	1800.7	2363.6
70°	3521.6	3518.1	3600.3	3830.8	3914.5	3733.8	3408.7	2634.0	2179.0	1914.8	2384.6
72.5°	3205.4	3177.5	3371.8	3828.4	4280.0	4255.9	3984.8	3024.3	2357.4	1928.8	2069.2
75°	2404.7	2330.3	2673.6	3450.2	4340.9	4552.3	4351.0	3266.3	2315.1	1704.2	1440.0
77.5°	1028.4	953.5	1358.1	2554.1	3885.1	4255.5	4015.0	2849.7	1848.1	1126.9	707.2
80°	269.2	268.8	410.4	1158.0	2642.2	3142.6	2757.0	1840.3	1055.9	402.7	195.1
82.5°	111.3	108.6	150.9	450.4	1291.0	1763.5	1439.2	820.8	381.3	109.0	64.8
85°	41.5	41.1	73.3	155.6	455.4	727.4	526.4	209.9	95.0	53.1	29.1
87.5°	11.6	11.2	15.9	53.9	110.9	168.4	90.0	34.5	26.8	20.9	8.5
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: P881884

CATALOG NUMBER: NAV-SB1C-730-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4
2.5°	839.1	841.0	844.5	847.2	850.7	854.6	860.0	863.5	867.0	869.3	867.8
5°	842.6	846.8	855.8	864.7	875.2	884.9	896.1	904.3	910.8	912.8	913.6
7.5°	850.3	857.3	872.4	887.6	904.3	920.2	936.5	950.4	961.7	965.9	966.3
10°	863.9	873.2	894.6	915.9	938.0	962.4	983.4	1003.6	1019.5	1026.1	1026.4
12.5°	881.0	892.6	920.5	950.0	980.7	1014.4	1041.6	1066.4	1086.2	1095.1	1095.1
15°	903.1	918.2	953.9	993.5	1038.5	1085.4	1119.9	1147.5	1169.6	1180.5	1179.7
17.5°	927.1	947.3	992.3	1052.1	1116.4	1178.1	1218.5	1238.6	1261.5	1272.0	1271.6
20°	950.4	975.2	1039.6	1126.5	1212.3	1277.8	1310.4	1315.8	1317.4	1318.6	1321.7
22.5°	974.5	1007.8	1099.0	1220.4	1312.3	1357.7	1362.4	1339.1	1306.5	1291.4	1295.7
25°	1000.8	1045.1	1176.6	1324.0	1398.5	1403.9	1368.2	1311.6	1249.9	1221.6	1225.8
27.5°	1026.4	1088.1	1269.7	1422.9	1460.5	1412.8	1336.0	1255.7	1181.2	1151.4	1154.9
30°	1052.1	1137.4	1372.5	1509.4	1488.9	1390.7	1285.2	1195.6	1120.7	1089.3	1092.8
32.5°	1078.0	1194.8	1490.8	1571.9	1483.8	1343.8	1222.0	1128.1	1062.1	1029.2	1033.4
35°	1107.5	1265.4	1602.9	1606.0	1450.1	1274.7	1138.6	1047.4	990.0	963.6	969.4
37.5°	1145.9	1355.0	1701.8	1614.5	1391.1	1173.5	1035.0	952.0	904.6	892.6	901.1
40°	1193.6	1462.9	1777.5	1601.0	1303.8	1050.5	921.7	855.4	828.6	831.3	840.6
42.5°	1255.7	1583.5	1830.6	1566.1	1182.4	923.6	822.4	792.9	805.7	816.6	826.7
45°	1336.4	1708.8	1863.6	1506.7	1045.1	816.2	763.8	770.8	780.5	781.7	789.4
47.5°	1439.6	1835.7	1885.3	1417.1	905.0	740.5	726.6	728.1	726.2	718.0	724.3
50°	1568.4	1959.0	1904.7	1298.4	785.9	693.2	674.6	669.2	642.4	616.0	619.5
52.5°	1715.0	2072.3	1912.9	1151.0	693.2	653.7	623.4	589.3	539.2	531.1	533.8
55°	1877.9	2177.0	1891.9	969.8	615.2	602.8	557.1	515.9	510.5	503.5	504.7
57.5°	2072.7	2289.9	1849.2	767.7	535.3	543.5	498.9	503.5	493.8	483.0	481.0
60°	2285.7	2406.7	1774.4	583.4	452.7	469.4	483.7	483.4	480.6	471.7	468.6
62.5°	2477.3	2483.5	1627.0	446.9	380.2	412.0	451.2	450.8	448.4	443.4	441.5
65°	2591.3	2471.9	1381.0	351.8	320.4	364.6	406.9	410.0	410.4	410.0	410.0
67.5°	2571.2	2335.7	1043.5	280.1	271.2	316.5	363.1	367.4	370.5	371.2	372.0
70°	2343.1	2036.6	680.4	223.4	227.3	274.3	321.6	325.9	328.6	331.7	333.2
72.5°	1826.3	1497.4	389.5	180.8	188.9	237.8	280.5	285.5	287.1	292.9	295.2
75°	1113.0	880.6	210.3	142.4	155.2	203.3	239.7	245.6	248.3	255.3	256.0
77.5°	529.1	381.3	119.9	110.9	124.9	166.0	202.5	209.1	201.7	205.6	202.5
80°	178.8	141.6	75.6	84.6	95.4	129.6	162.2	168.7	153.2	152.5	150.9
82.5°	62.5	57.4	48.1	56.2	61.7	92.7	122.6	131.1	114.0	113.7	108.2
85°	24.4	23.3	26.8	30.6	36.9	57.0	80.7	85.0	70.2	56.6	55.9
87.5°	5.0	5.4	6.6	7.0	11.2	19.8	29.1	35.7	28.3	24.1	22.1
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)