

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: P882226

Luminaire Tested: **NAV-SB2A-730-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6572 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

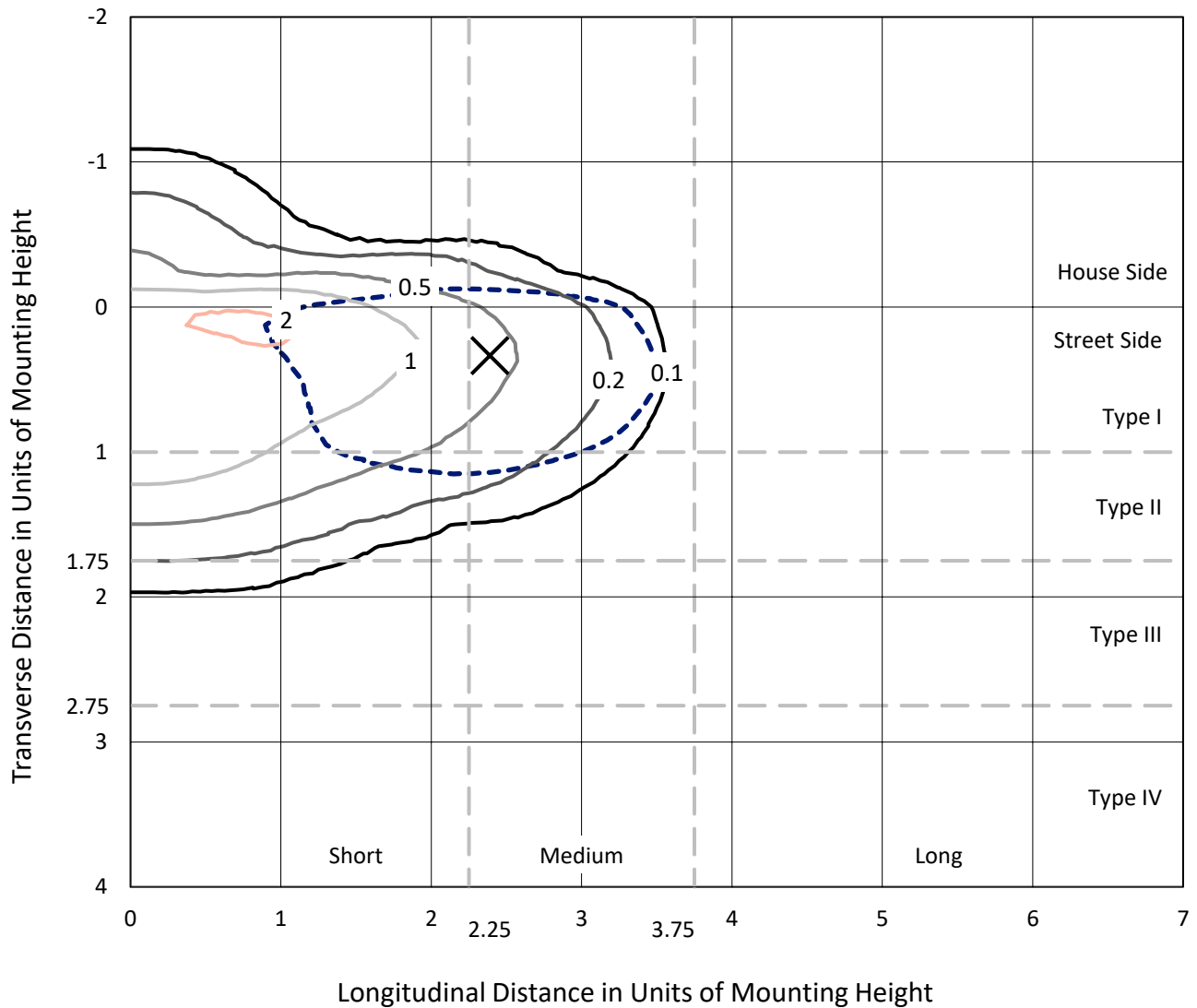
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882226
 CATALOG NUMBER: NAV-SB2A-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

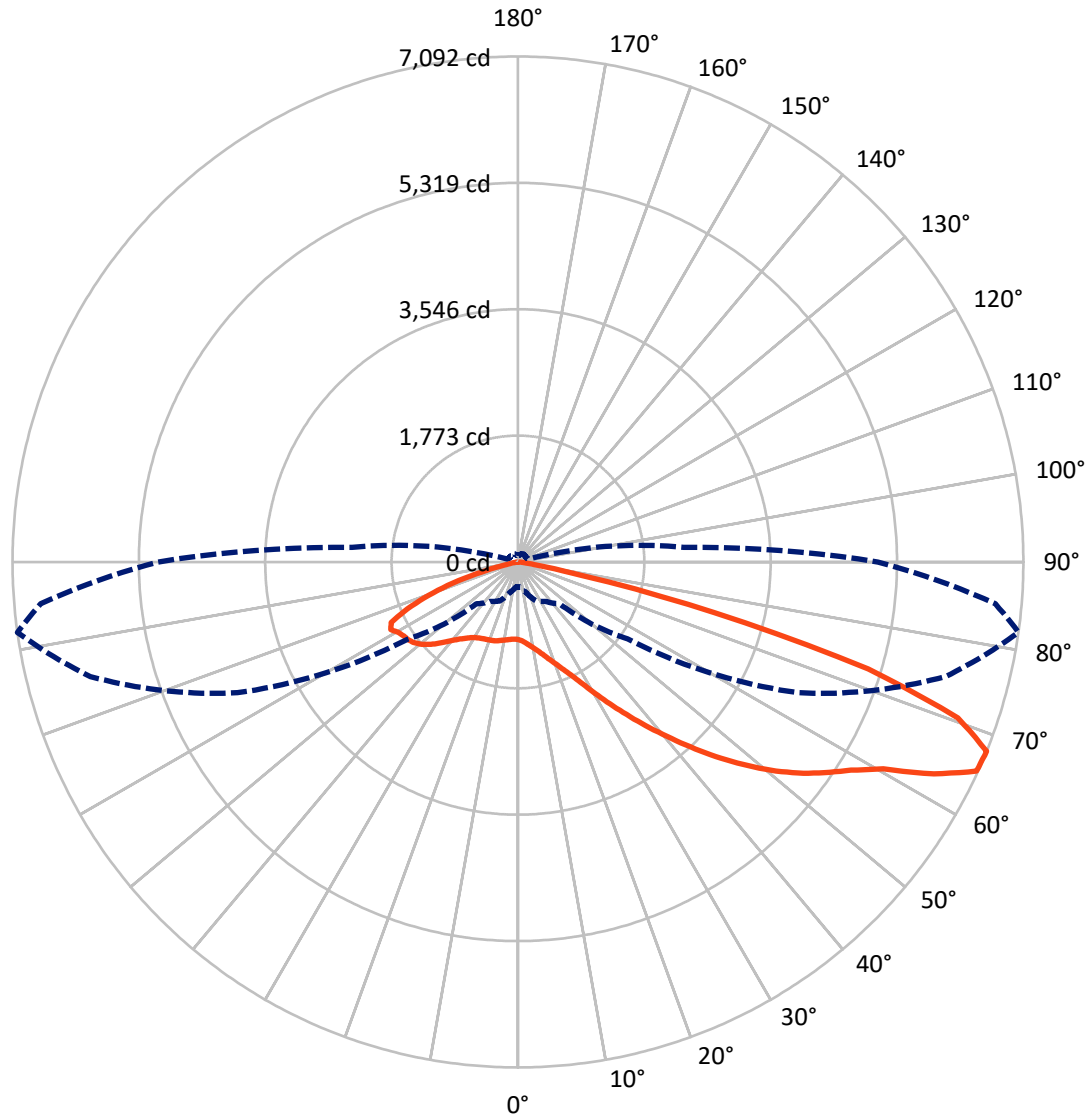
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P882226
CATALOG NUMBER: NAV-SB2A-730-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P882226

CATALOG NUMBER: NAV-SB2A-730-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1190.5	0.0	1190.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5381.5	0.0	5381.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	6572.0	0.0	6572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	1.5
10°-20°	252.1	3.8
20°-30°	403.7	6.1
30°-40°	713.9	10.9
40°-50°	1250.8	19.0
50°-60°	1668.3	25.4
60°-70°	1553.1	23.6
70°-80°	596.1	9.1
80°-90°	37.0	0.6
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°	6572.0	100.0
0°-180°	6572.0	100.0

Coefficient of Utilization



REPORT NUMBER: P882226

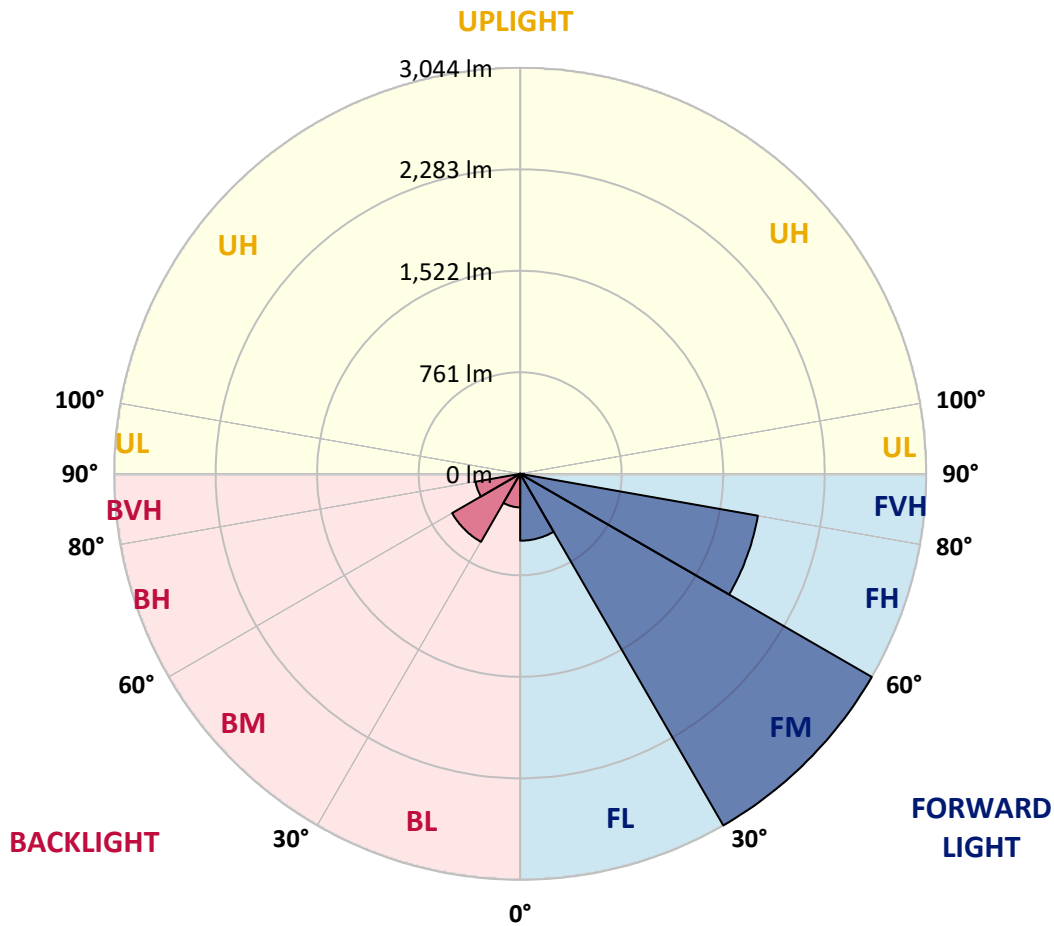
CATALOG NUMBER: NAV-SB2A-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.4	7.6			
FM (30°-60°)	3043.9	46.3			
FH (60°-80°)	1809.4	27.5			G2/5000
FVH (80°-90°)	26.9	0.4			G1/100
BL (0°-30°)	251.4	3.8	B1/500		
BM (30°-60°)	589.1	9.0	B1/1000		
BH (60°-80°)	339.8	5.2	B1/500		G1/500
BVH (80°-90°)	10.1	0.2			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 II Medium



REPORT NUMBER: P882226

CATALOG NUMBER: NAV-SB2A-730-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8
2.5°	1150.7	1157.4	1153.6	1151.7	1148.4	1143.6	1139.9	1128.0	1115.7	1107.7	1104.8
5°	1173.9	1180.6	1180.1	1182.0	1184.3	1185.8	1184.8	1171.6	1154.1	1140.3	1132.3
7.5°	1154.1	1161.6	1167.8	1177.2	1193.8	1211.3	1219.8	1217.0	1199.0	1180.1	1170.1
10°	1097.7	1105.8	1120.5	1142.7	1177.7	1215.6	1247.3	1261.9	1250.6	1229.8	1216.0
12.5°	994.6	1002.6	1031.5	1079.8	1138.4	1204.2	1264.8	1304.0	1306.9	1286.1	1270.0
15°	878.7	886.7	917.5	978.0	1067.5	1173.0	1274.2	1348.5	1373.6	1355.6	1336.2
17.5°	806.8	813.8	837.0	885.8	979.0	1110.5	1270.9	1395.8	1453.1	1438.9	1415.7
20°	785.0	791.1	802.0	836.1	913.7	1045.7	1249.2	1440.3	1538.7	1530.7	1504.7
22.5°	808.2	813.8	817.2	832.3	881.0	1003.1	1221.7	1485.7	1638.1	1639.1	1607.3
25°	861.6	867.3	863.5	873.0	894.3	989.9	1211.3	1539.2	1763.0	1773.4	1737.5
27.5°	949.6	950.1	941.1	940.7	944.0	1009.7	1222.2	1596.5	1920.6	1940.0	1895.5
30°	1126.1	1119.0	1084.5	1047.1	1030.1	1069.4	1252.5	1664.1	2106.5	2141.1	2085.2
32.5°	1398.2	1387.8	1324.4	1235.0	1145.1	1165.4	1306.9	1741.3	2309.1	2371.5	2303.4
35°	1693.5	1690.6	1624.4	1491.4	1334.3	1302.2	1395.4	1842.5	2530.0	2629.4	2548.5
37.5°	1967.9	1966.5	1928.6	1772.0	1580.9	1492.8	1537.3	1975.0	2766.6	2910.5	2814.9
40°	2218.7	2222.9	2185.1	2045.0	1852.5	1737.5	1730.4	2138.7	3029.7	3216.6	3103.0
42.5°	2435.4	2440.1	2401.8	2298.2	2120.7	2008.1	1967.4	2339.3	3286.6	3545.4	3411.1
45°	2582.5	2611.9	2606.2	2523.4	2396.1	2279.2	2252.3	2591.1	3579.5	3894.2	3736.6
47.5°	2624.2	2651.2	2693.7	2705.1	2627.5	2512.5	2544.7	2894.4	3875.7	4243.4	4064.0
50°	2521.5	2546.6	2635.1	2752.9	2806.8	2771.3	2829.1	3219.4	4179.0	4591.6	4385.3
52.5°	2319.0	2344.5	2456.2	2642.6	2862.7	2974.3	3114.4	3539.8	4472.9	4921.4	4689.6
55°	2026.1	2053.1	2196.4	2407.5	2756.2	3058.1	3352.4	3859.6	4742.1	5218.1	4964.0
57.5°	1627.7	1647.6	1796.6	2091.9	2488.4	2974.8	3527.9	4208.8	4995.7	5509.6	5236.1
60°	1060.8	1078.3	1251.5	1580.9	2044.6	2696.6	3562.9	4598.2	5332.6	5888.6	5602.8
62.5°	705.5	717.3	820.0	1061.8	1439.8	2162.4	3358.1	4909.1	5826.6	6548.2	6231.6
65°	484.1	495.9	598.6	767.0	930.2	1430.4	2769.0	4867.9	6274.2	7072.0	6697.7
67.5°	345.4	355.3	442.4	601.4	673.3	830.9	1877.1	4341.8	6209.8	7091.8	6722.8
70°	247.5	253.1	325.1	468.4	535.2	499.2	1043.8	3320.7	5437.2	6548.6	6210.8
72.5°	173.2	175.1	225.7	356.8	431.1	364.3	496.8	2213.9	4112.3	5140.0	4815.0
75°	117.3	119.7	151.9	261.7	345.9	278.2	263.1	1187.2	2414.1	2845.2	2550.4
77.5°	71.9	72.9	97.9	178.9	258.8	212.0	169.4	503.0	934.0	917.0	781.7
80°	40.7	40.7	62.5	111.2	176.5	136.7	118.8	213.9	295.7	259.8	229.0
82.5°	22.7	23.2	45.4	69.1	116.9	80.9	65.3	98.9	127.8	113.1	98.4
85°	9.5	10.4	27.9	32.6	55.8	40.2	26.5	41.6	47.3	42.1	30.8
87.5°	0.9	1.4	8.5	6.2	6.6	8.0	3.8	8.0	6.6	6.6	4.7
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: P882226

CATALOG NUMBER: NAV-SB2A-730-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8	1088.8
2.5°	1095.9	1088.8	1070.8	1050.0	1022.5	1009.3	991.3	979.0	968.6	969.5	960.1
5°	1117.1	1099.2	1058.9	1008.8	946.3	901.9	854.5	821.9	795.4	789.7	776.9
7.5°	1146.5	1118.1	1047.6	957.2	851.7	771.7	700.3	654.4	621.7	611.3	600.9
10°	1184.3	1143.2	1032.9	892.4	740.5	638.8	562.1	526.2	503.9	496.4	490.7
12.5°	1228.3	1172.0	1013.5	813.4	626.0	528.1	479.3	461.3	454.2	451.9	450.5
15°	1283.7	1208.0	984.2	719.7	529.0	460.4	439.6	437.2	438.2	437.2	436.7
17.5°	1349.5	1247.3	936.4	623.2	463.7	425.9	418.3	420.2	422.5	422.1	421.1
20°	1421.4	1286.1	875.4	537.5	419.2	401.2	397.0	398.9	400.8	399.8	399.4
22.5°	1503.3	1327.7	807.7	470.8	389.4	378.5	373.8	374.3	374.3	372.4	371.4
25°	1601.2	1373.6	736.7	423.5	366.7	358.2	352.5	350.6	347.8	342.1	341.2
27.5°	1718.1	1422.3	668.6	390.4	348.7	340.7	334.1	329.3	322.2	312.8	311.8
30°	1849.6	1481.5	610.9	369.5	334.5	326.5	318.9	311.8	301.4	289.6	288.6
32.5°	2004.3	1544.9	568.7	355.8	321.8	313.2	304.2	295.7	284.4	272.5	273.0
35°	2188.9	1621.5	544.1	346.4	311.8	300.5	290.5	281.1	272.5	262.1	261.2
37.5°	2389.0	1702.9	536.6	341.6	305.2	287.7	276.3	269.7	268.8	262.6	262.1
40°	2608.1	1799.5	542.2	338.8	298.1	275.4	263.1	261.7	264.0	253.1	253.6
42.5°	2840.0	1914.0	551.7	335.5	288.2	263.1	251.3	251.3	249.4	234.2	234.2
45°	3090.7	2046.0	561.2	327.4	276.3	250.8	241.8	238.5	230.4	215.8	215.3
47.5°	3343.4	2180.4	568.3	312.8	262.1	240.4	232.3	224.8	212.9	199.7	199.2
50°	3583.3	2301.0	560.7	291.0	246.0	230.4	221.9	211.5	198.7	189.7	188.3
52.5°	3797.6	2405.6	528.5	265.4	229.0	220.0	212.5	201.6	191.2	181.7	180.7
55°	3984.1	2490.3	471.7	241.3	213.9	211.0	203.5	189.7	175.5	167.5	166.6
57.5°	4162.9	2554.6	400.8	221.4	200.1	201.1	189.7	177.4	164.2	155.7	154.7
60°	4400.9	2640.7	328.9	203.0	185.5	188.3	176.0	167.0	150.5	139.6	138.2
62.5°	4781.4	2774.7	261.2	180.3	168.4	169.4	164.2	153.3	133.4	120.7	119.7
65°	5083.2	2725.4	205.8	155.7	149.0	150.5	150.5	138.6	117.3	102.7	101.3
67.5°	5049.2	2333.7	164.2	131.5	130.6	131.5	134.9	124.9	104.1	92.3	90.4
70°	4651.2	1856.2	131.5	109.3	113.6	111.2	120.7	114.0	93.7	81.9	80.4
72.5°	3795.3	1337.2	100.3	90.4	87.1	90.8	108.8	102.7	78.1	64.8	63.4
75°	2217.7	713.5	74.8	71.4	62.9	75.7	96.5	87.5	59.6	47.8	46.4
77.5°	722.1	248.9	54.9	52.5	46.8	61.0	82.3	73.8	48.7	37.9	36.4
80°	193.5	75.2	37.4	34.5	30.3	45.4	65.3	58.7	35.0	24.6	24.1
82.5°	77.6	31.7	21.8	19.4	16.6	31.2	51.6	47.3	26.0	15.6	15.6
85°	25.1	10.4	8.0	6.2	7.6	19.4	30.8	32.2	18.5	8.0	6.2
87.5°	3.3	1.4	1.4	1.9	1.4	3.3	9.5	9.0	5.2	0.9	0.0
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)