

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: P881911

Luminaire Tested: **NAV-SB1C-740-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7987 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

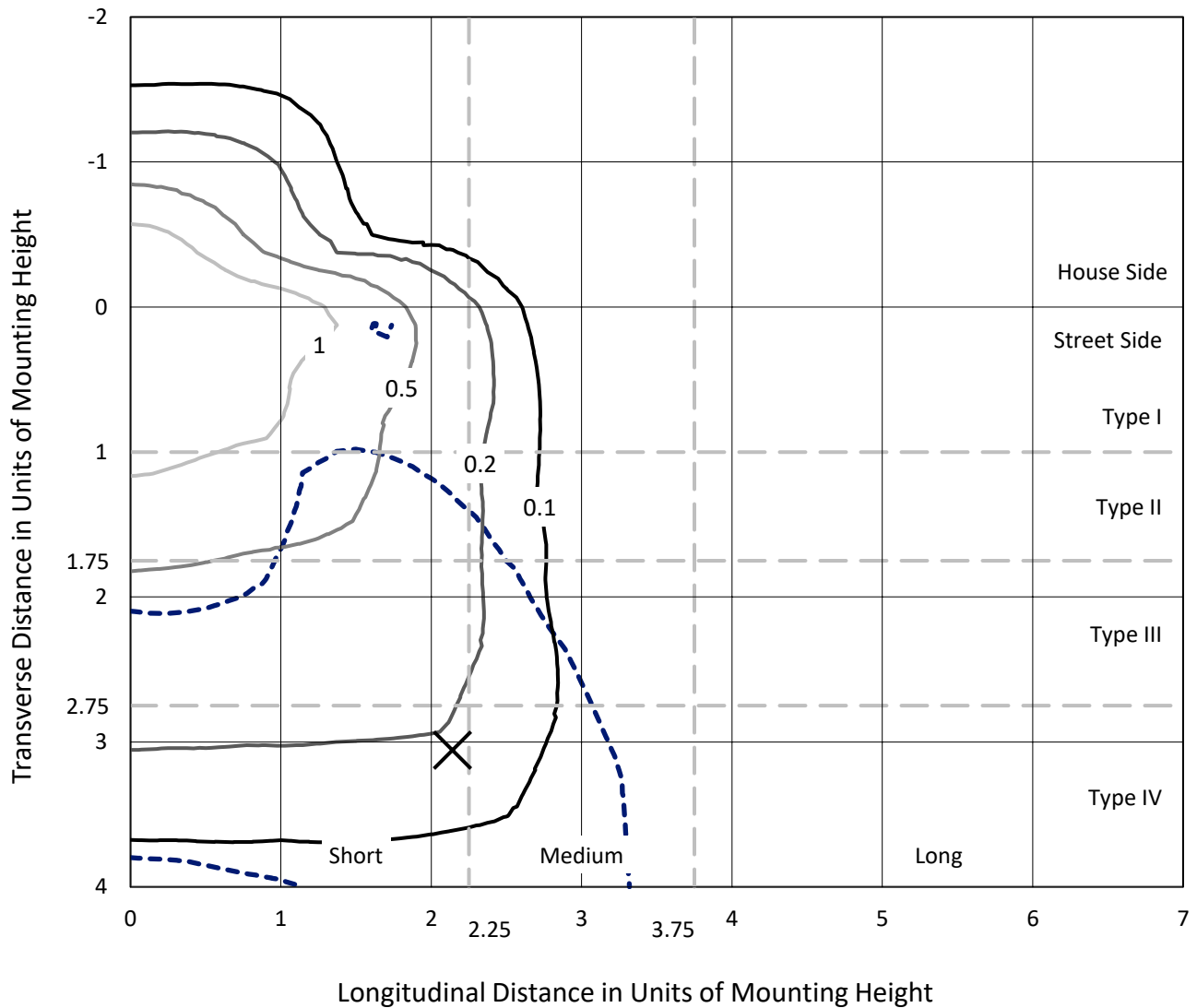
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

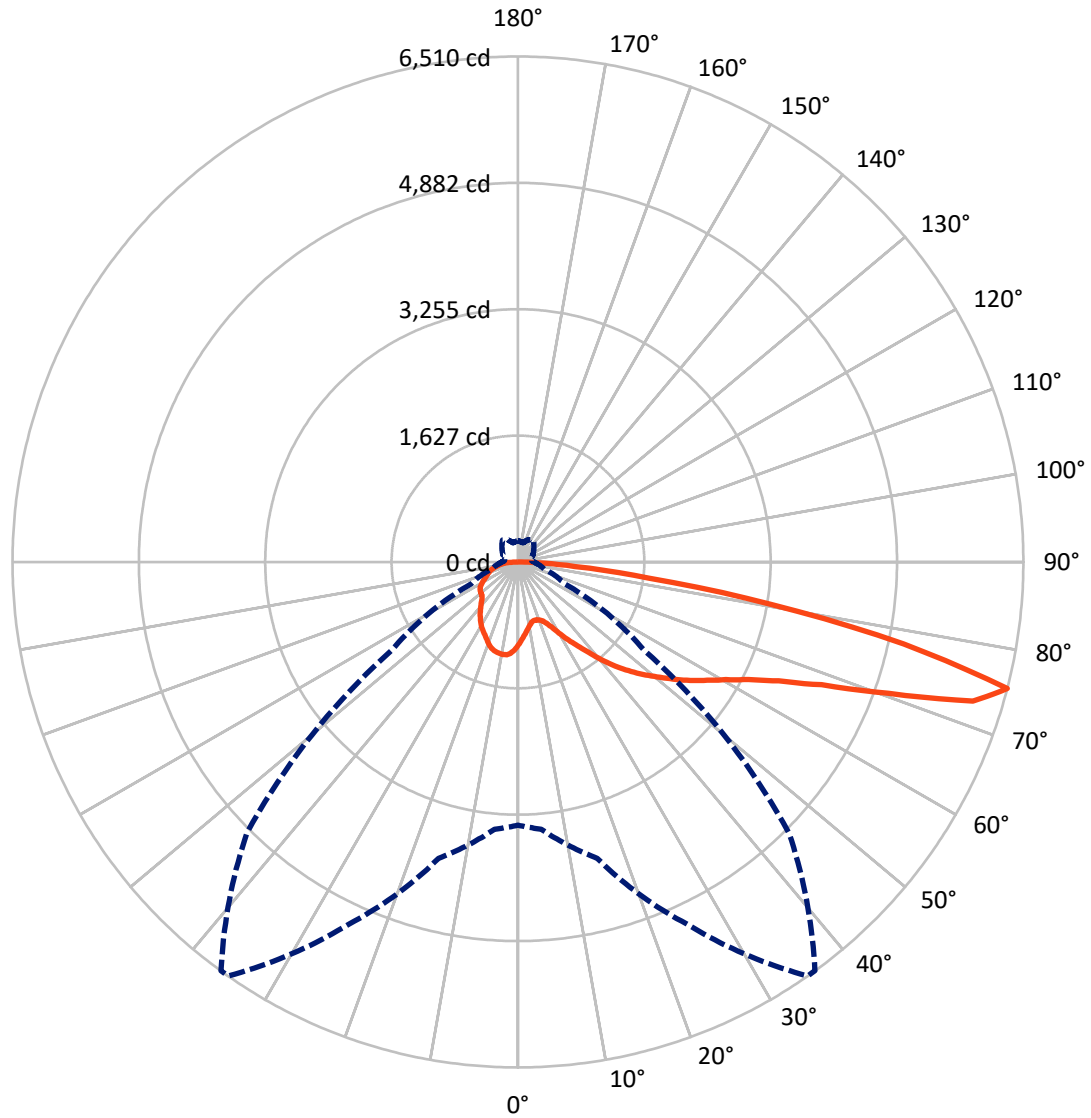
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1900.7	0.0	1900.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6086.3	0.0	6086.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	7987.0	0.0	7987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.3
10°-20°	290.7	3.6
20°-30°	488.1	6.1
30°-40°	758.6	9.5
40°-50°	1125.9	14.1
50°-60°	1554.4	19.5
60°-70°	1885.9	23.6
70°-80°	1558.5	19.5
80°-90°	224.2	2.8
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°	7987.0	100.0
0°-180°	7987.0	100.0

Coefficient of Utilization



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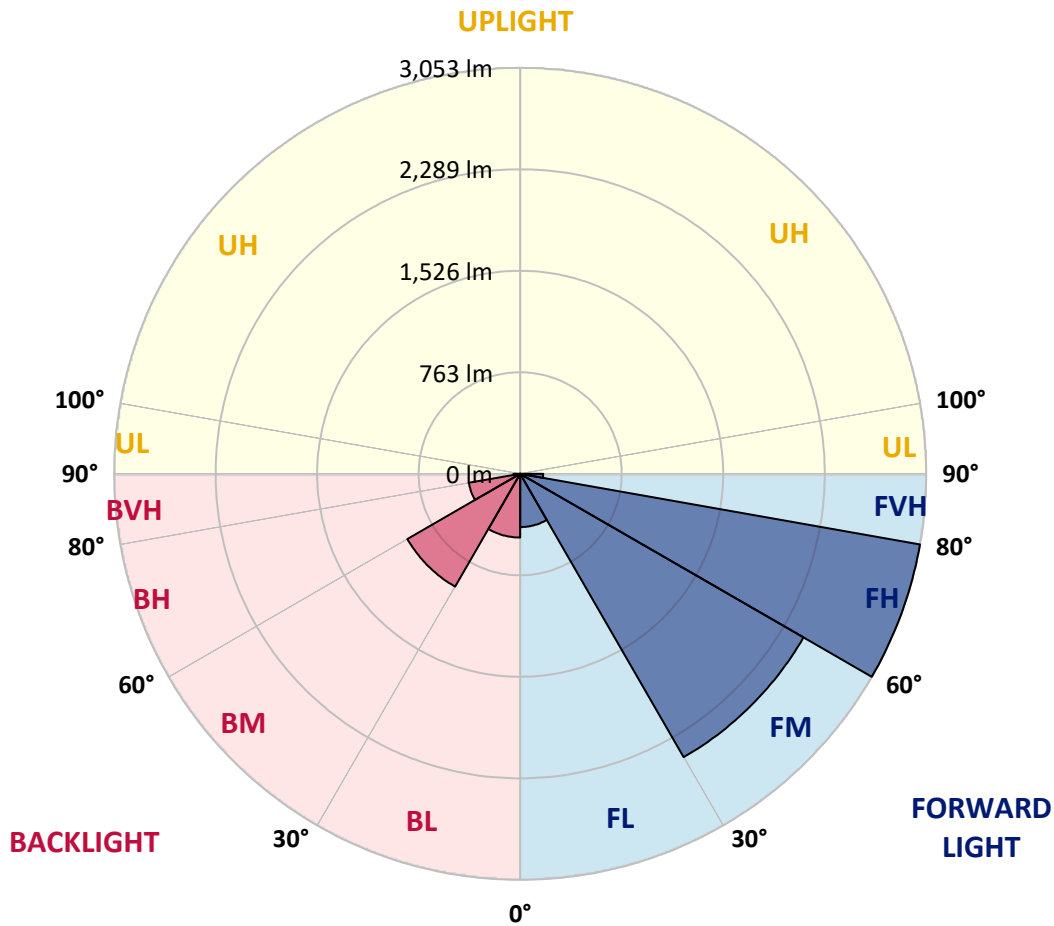
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.5	5.0			
FM (30°-60°)	2459.6	30.8			
FH (60°-80°)	3052.5	38.2			G2/5000
FVH (80°-90°)	173.7	2.2			G2/225
BL (0°-30°)	479.0	6.0	B1/500		
BM (30°-60°)	979.4	12.3	B1/1000		
BH (60°-80°)	391.9	4.9	B1/500		G1/500
BVH (80°-90°)	50.5	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	981.4	987.5	990.1	988.8	995.2	994.4	1003.4	1014.7	1030.2	1045.3	1067.3
5°	905.9	912.3	918.0	923.1	935.7	939.5	953.8	975.4	1003.9	1032.8	1069.1
7.5°	835.5	841.1	849.7	859.2	880.4	884.3	908.0	941.7	981.4	1023.7	1073.8
10°	778.1	783.7	792.7	803.5	829.9	834.6	864.8	909.7	961.6	1015.1	1079.0
12.5°	753.4	755.2	760.4	771.1	794.0	797.1	830.3	881.7	942.1	1008.6	1086.8
15°	752.1	755.6	756.0	761.6	780.6	781.9	812.6	863.5	930.0	1007.3	1098.4
17.5°	765.1	767.7	763.8	767.3	783.2	785.4	809.6	854.9	926.2	1012.9	1118.3
20°	799.6	801.8	790.1	785.4	797.1	798.8	822.5	860.5	930.0	1024.6	1145.5
22.5°	873.0	874.3	845.8	826.4	827.3	828.1	848.9	883.4	945.2	1045.8	1180.0
25°	987.5	986.6	941.3	903.7	882.1	877.4	891.2	920.5	970.6	1073.8	1224.5
27.5°	1121.3	1114.8	1069.5	1013.4	966.3	959.4	956.4	968.9	1006.9	1111.0	1278.9
30°	1272.4	1266.4	1217.6	1144.2	1079.0	1067.8	1039.3	1032.8	1060.9	1161.5	1354.5
32.5°	1438.2	1434.4	1376.1	1287.1	1199.9	1186.9	1139.0	1121.7	1143.8	1237.9	1459.8
35°	1577.3	1573.8	1525.5	1433.9	1327.3	1311.3	1262.5	1243.1	1254.3	1335.9	1597.6
37.5°	1702.9	1701.2	1659.7	1587.6	1477.5	1458.1	1403.3	1396.8	1394.6	1465.0	1764.7
40°	1819.5	1815.2	1772.0	1734.0	1652.4	1634.7	1586.3	1580.7	1564.3	1623.9	1953.8
42.5°	1948.6	1937.4	1874.8	1857.1	1835.0	1820.4	1791.4	1792.3	1756.0	1803.1	2154.1
45°	2053.9	2047.5	1983.1	1972.8	1996.5	1990.5	2015.5	2022.0	1951.6	1990.9	2362.2
47.5°	2167.1	2161.0	2106.6	2099.3	2163.6	2165.3	2253.9	2256.0	2142.5	2186.1	2570.8
50°	2306.5	2297.9	2243.9	2253.0	2325.1	2331.6	2493.5	2478.8	2318.2	2384.3	2777.6
52.5°	2398.5	2403.7	2392.0	2406.7	2505.2	2511.2	2729.2	2691.7	2492.2	2579.8	2980.5
55°	2466.3	2476.7	2512.9	2546.6	2695.1	2701.2	2951.6	2894.2	2636.4	2761.2	3171.4
57.5°	2553.5	2538.8	2606.6	2672.2	2875.6	2891.6	3167.9	3089.3	2764.2	2917.5	3302.2
60°	2678.7	2668.4	2721.0	2818.2	3077.7	3103.2	3396.8	3265.1	2857.9	3041.4	3327.7
62.5°	2932.6	2906.7	2914.9	3000.8	3332.4	3366.1	3655.0	3418.4	2904.5	3089.8	3191.2
65°	3312.1	3267.7	3226.2	3285.8	3691.2	3724.5	3946.4	3538.8	2887.3	2996.1	2829.0
67.5°	3790.1	3746.1	3695.1	3751.2	4219.7	4246.1	4306.1	3606.6	2751.3	2635.1	2188.7
70°	4184.3	4167.9	4228.8	4459.8	5063.8	5064.7	4767.2	3550.5	2378.6	1868.3	1266.4
72.5°	4132.1	4122.1	4442.9	5157.1	6127.7	6104.8	5203.7	3125.6	1602.3	842.8	474.5
75°	3389.9	3454.2	3951.2	5144.6	6509.8	6506.8	4936.5	1987.0	662.8	349.3	245.2
77.5°	1817.8	1919.7	2565.2	3798.3	5082.0	5158.4	3470.6	695.2	284.5	223.7	169.7
80°	592.8	681.8	1022.4	1933.9	3302.2	3288.0	1487.5	272.9	194.7	158.5	117.4
82.5°	251.7	262.1	456.8	913.2	1694.7	1668.4	473.7	156.7	136.9	108.4	72.5
85°	98.4	110.1	201.6	422.3	734.0	718.0	171.0	77.7	87.7	70.8	43.2
87.5°	32.4	39.3	72.1	144.6	228.4	220.2	41.9	26.8	38.0	32.4	15.5
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°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1073.4	1080.3	1088.5	1100.6	1111.0	1119.6	1128.7	1134.3	1136.4	1142.9	1142.5
5°	1081.2	1096.3	1116.6	1136.4	1155.9	1167.5	1177.9	1183.1	1187.8	1191.3	1192.1
7.5°	1094.1	1113.5	1145.5	1171.4	1187.8	1197.3	1204.2	1202.5	1204.2	1205.1	1206.4
10°	1105.3	1132.5	1170.5	1195.1	1207.7	1208.1	1206.4	1200.3	1197.3	1197.7	1198.6
12.5°	1118.7	1148.9	1190.0	1210.7	1214.1	1204.6	1197.3	1186.9	1183.1	1181.3	1180.5
15°	1136.9	1171.4	1211.1	1218.9	1210.3	1198.2	1185.7	1168.8	1160.2	1153.3	1155.4
17.5°	1158.9	1196.9	1227.5	1221.9	1203.4	1183.5	1163.2	1137.7	1120.0	1112.7	1113.1
20°	1189.5	1223.6	1240.1	1215.4	1187.4	1157.2	1122.6	1091.5	1075.1	1067.8	1066.9
22.5°	1226.7	1259.5	1252.1	1204.2	1164.5	1116.1	1073.0	1050.1	1041.9	1036.7	1037.6
25°	1271.1	1299.2	1260.8	1187.8	1126.9	1061.7	1028.5	1021.1	1017.3	1013.4	1013.4
27.5°	1329.0	1344.1	1267.3	1163.6	1068.2	1003.9	991.8	993.1	991.8	985.3	986.6
30°	1405.4	1402.4	1273.3	1124.3	1000.9	951.6	952.5	958.1	959.0	954.7	956.8
32.5°	1506.0	1475.4	1276.3	1073.4	936.5	905.9	906.7	912.8	917.1	909.7	913.2
35°	1627.8	1560.4	1271.6	1009.5	886.9	862.3	855.8	857.5	858.8	851.9	856.6
37.5°	1769.8	1655.9	1250.4	938.7	845.8	819.5	805.7	794.0	787.1	780.6	785.0
40°	1925.7	1759.9	1211.6	869.6	800.1	774.2	753.4	731.4	708.1	699.5	703.4
42.5°	2088.9	1867.0	1164.5	803.5	747.4	726.2	704.2	672.3	637.3	619.6	621.8
45°	2258.2	1976.7	1118.3	738.3	693.4	684.4	658.9	620.5	582.5	560.0	558.3
47.5°	2424.0	2080.3	1050.5	672.7	642.9	652.8	633.0	597.6	555.3	519.9	516.0
50°	2582.4	2177.4	939.5	606.2	601.9	643.3	624.3	573.4	525.0	479.7	475.8
52.5°	2739.6	2256.0	797.5	545.8	579.9	640.8	613.1	557.0	497.8	450.3	445.2
55°	2873.0	2296.6	660.6	493.9	547.9	618.7	599.7	537.6	459.4	408.9	404.6
57.5°	2949.0	2263.8	546.6	443.0	503.9	582.5	576.8	496.1	413.6	374.8	369.6
60°	2916.2	2130.8	453.4	398.5	462.0	543.2	537.1	455.1	378.7	342.0	336.8
62.5°	2735.3	1877.4	379.5	359.7	424.0	503.0	497.4	423.6	351.9	316.5	310.9
65°	2370.9	1527.2	322.1	327.3	385.6	454.7	462.9	397.2	330.7	296.2	290.6
67.5°	1808.3	1106.2	277.2	299.2	348.0	407.2	430.9	378.2	313.0	280.2	275.0
70°	1030.6	628.2	239.2	272.0	314.8	363.1	406.3	363.1	294.0	266.8	263.4
72.5°	390.8	288.4	206.8	244.8	282.8	326.0	379.1	339.4	272.0	251.7	248.3
75°	208.5	175.7	174.0	212.9	246.1	289.7	345.0	316.1	255.6	266.0	274.6
77.5°	142.1	124.4	145.5	182.2	206.0	249.6	308.7	280.7	221.5	220.6	203.4
80°	98.4	88.1	118.3	146.8	159.3	209.8	269.4	240.9	180.5	168.4	161.1
82.5°	59.2	57.4	88.5	109.7	112.7	161.9	223.2	202.1	147.7	128.7	129.5
85°	32.4	34.1	56.6	64.3	65.6	113.1	174.9	156.3	113.6	95.4	96.3
87.5°	9.1	11.7	20.7	25.5	31.5	58.7	104.1	92.8	57.0	39.7	39.7
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)