

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: P881871

Luminaire Tested: **NAV-SB1C-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881871
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-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 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: 5903 lumens
Efficiency: N/A
Efficacy: 108.5 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

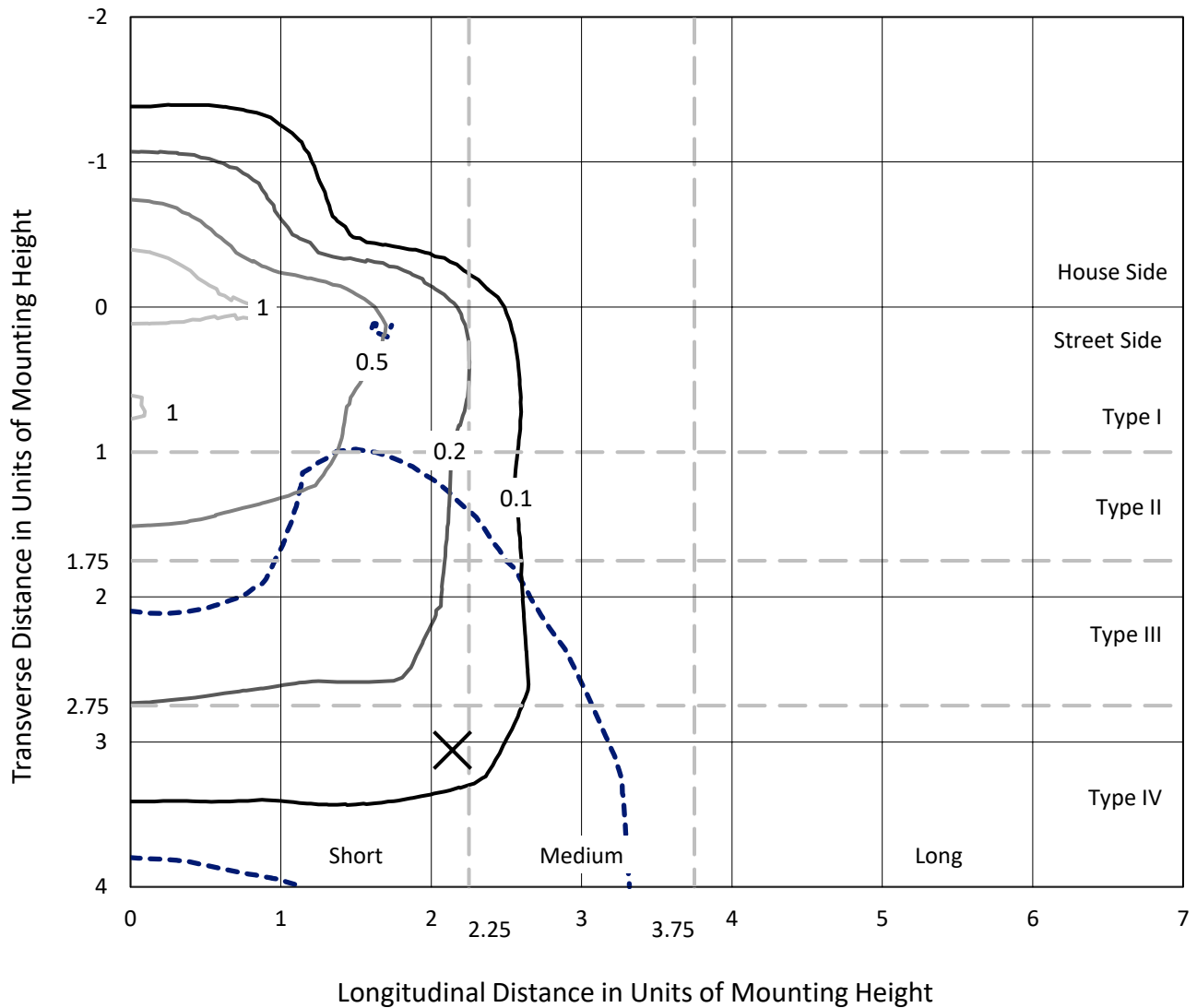
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P881871
 CATALOG NUMBER: NAV-SB1C-722-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

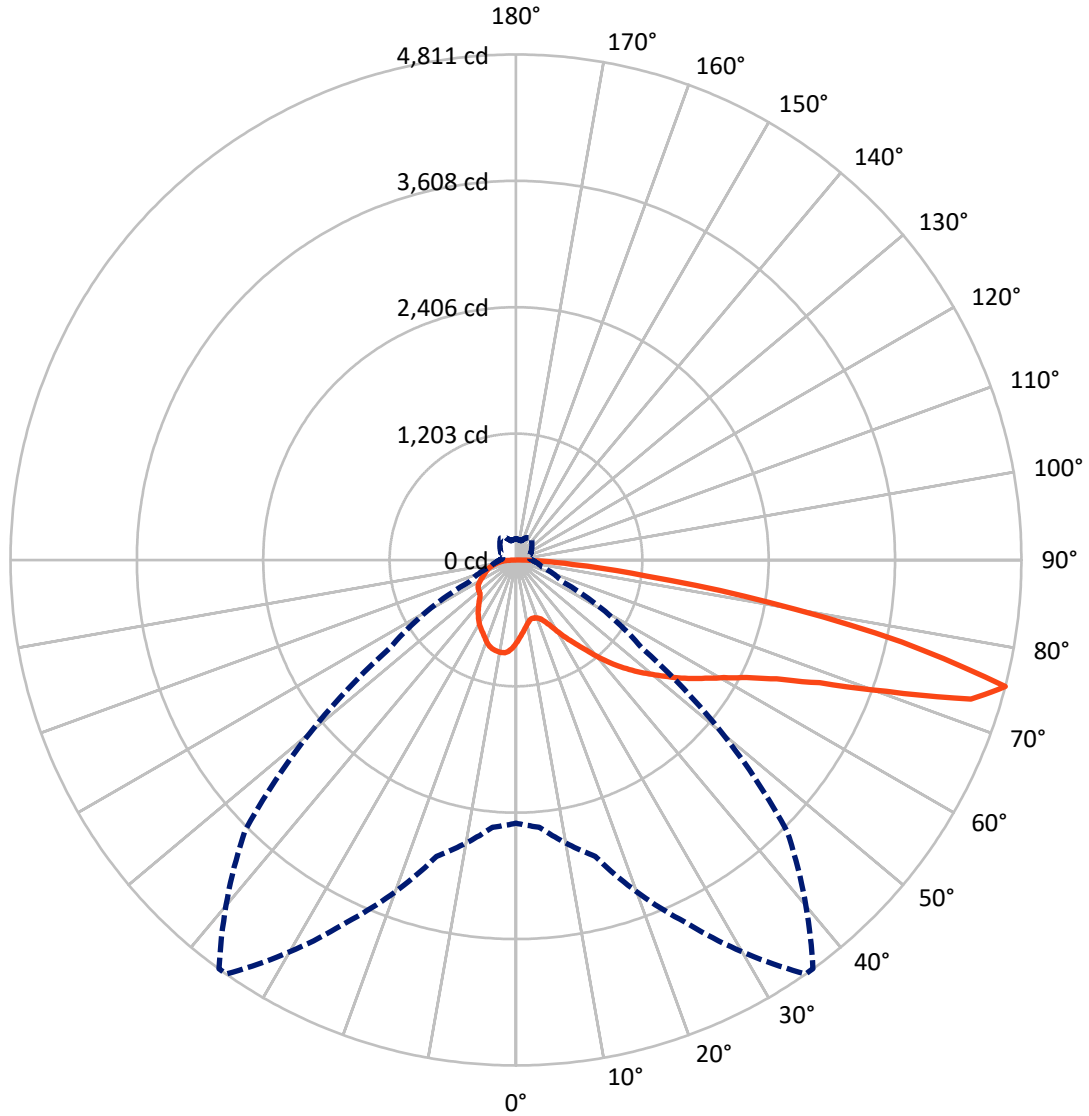
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P881871
CATALOG NUMBER: NAV-SB1C-722-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P881871
 CATALOG NUMBER: NAV-SB1C-722-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1404.8	0.0	1404.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4498.2	0.0	4498.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	5903.0	0.0	5903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	1.3
10°-20°	214.8	3.6
20°-30°	360.7	6.1
30°-40°	560.6	9.5
40°-50°	832.1	14.1
50°-60°	1148.8	19.5
60°-70°	1393.8	23.6
70°-80°	1151.9	19.5
80°-90°	165.7	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°	5903.0	100.0
0°-180°	5903.0	100.0

Coefficient of Utilization



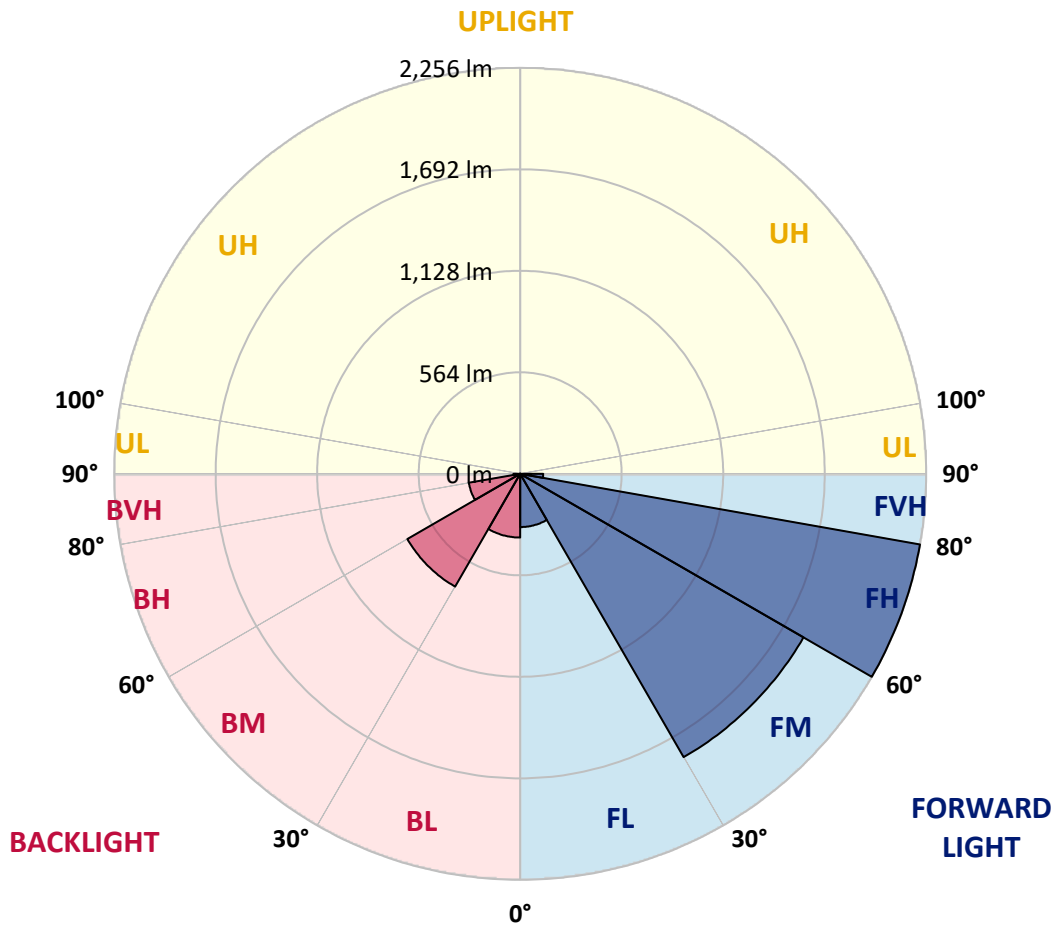
REPORT NUMBER: P881871
 CATALOG NUMBER: NAV-SB1C-722-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.0	5.0			
FM (30°-60°)	1817.8	30.8			
FH (60°-80°)	2256.0	38.2			G2/5000
FVH (80°-90°)	128.4	2.2			G2/225
BL (0°-30°)	354.0	6.0	B1/500		
BM (30°-60°)	723.8	12.3	B1/1000		
BH (60°-80°)	289.6	4.9	B1/500		G1/500
BVH (80°-90°)	37.3	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



REPORT NUMBER: P881871
 CATALOG NUMBER: NAV-SB1C-722-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6
2.5°	725.3	729.8	731.7	730.8	735.6	734.9	741.6	749.9	761.4	772.6	788.8
5°	669.5	674.3	678.4	682.3	691.5	694.4	704.9	720.9	741.9	763.3	790.1
7.5°	617.5	621.6	628.0	635.0	650.7	653.5	671.1	696.0	725.3	756.6	793.6
10°	575.0	579.2	585.9	593.9	613.3	616.8	639.2	672.4	710.7	750.2	797.5
12.5°	556.9	558.1	562.0	569.9	586.8	589.1	613.7	651.6	696.3	745.4	803.2
15°	555.9	558.4	558.8	562.9	577.0	577.9	600.6	638.2	687.4	744.5	811.8
17.5°	565.5	567.4	564.5	567.1	578.9	580.5	598.3	631.8	684.5	748.6	826.5
20°	591.0	592.6	584.0	580.5	589.1	590.4	607.9	636.0	687.4	757.3	846.6
22.5°	645.2	646.2	625.1	610.8	611.4	612.1	627.4	652.9	698.5	772.9	872.1
25°	729.8	729.2	695.7	667.9	651.9	648.4	658.7	680.3	717.4	793.6	905.0
27.5°	828.7	824.0	790.4	749.0	714.2	709.1	706.8	716.1	744.2	821.1	945.2
30°	940.4	936.0	899.9	845.7	797.5	789.2	768.1	763.3	784.1	858.4	1001.1
32.5°	1063.0	1060.1	1017.0	951.3	886.8	877.2	841.8	829.1	845.3	914.9	1078.9
35°	1165.7	1163.2	1127.4	1059.8	981.0	969.1	933.1	918.7	927.0	987.3	1180.7
37.5°	1258.6	1257.3	1226.7	1173.4	1092.0	1077.6	1037.1	1032.3	1030.7	1082.8	1304.2
40°	1344.7	1341.6	1309.6	1281.6	1221.2	1208.2	1172.4	1168.3	1156.1	1200.2	1444.0
42.5°	1440.2	1431.9	1385.6	1372.5	1356.2	1345.4	1324.0	1324.6	1297.8	1332.6	1592.1
45°	1518.0	1513.2	1465.7	1458.0	1475.6	1471.1	1489.6	1494.4	1442.4	1471.4	1745.9
47.5°	1601.6	1597.2	1557.0	1551.5	1599.1	1600.4	1665.8	1667.4	1583.4	1615.7	1900.0
50°	1704.7	1698.3	1658.4	1665.1	1718.4	1723.2	1842.9	1832.0	1713.3	1762.1	2052.9
52.5°	1772.7	1776.5	1767.9	1778.7	1851.5	1856.0	2017.1	1989.4	1841.9	1906.7	2202.8
55°	1822.8	1830.4	1857.2	1882.1	1991.9	1996.4	2181.5	2139.0	1948.5	2040.7	2343.9
57.5°	1887.2	1876.4	1926.5	1975.0	2125.3	2137.1	2341.3	2283.3	2043.0	2156.2	2440.6
60°	1979.8	1972.1	2011.1	2082.9	2274.6	2293.5	2510.5	2413.1	2112.2	2247.8	2459.4
62.5°	2167.4	2148.3	2154.3	2217.8	2462.9	2487.8	2701.3	2526.4	2146.7	2283.6	2358.6
65°	2447.9	2415.1	2384.4	2428.5	2728.1	2752.7	2916.7	2615.5	2133.9	2214.3	2090.8
67.5°	2801.2	2768.6	2731.0	2772.5	3118.7	3138.2	3182.5	2665.6	2033.4	1947.5	1617.6
70°	3092.5	3080.4	3125.4	3296.1	3742.6	3743.2	3523.3	2624.1	1758.0	1380.8	936.0
72.5°	3053.9	3046.6	3283.7	3811.5	4528.9	4511.9	3846.0	2310.1	1184.2	622.9	350.7
75°	2505.4	2552.9	2920.2	3802.2	4811.3	4809.0	3648.4	1468.6	489.8	258.2	181.3
77.5°	1343.5	1418.8	1895.9	2807.2	3756.0	3812.4	2565.0	513.8	210.3	165.3	125.4
80°	438.1	503.9	755.7	1429.3	2440.6	2430.0	1099.3	201.7	143.9	117.1	86.8
82.5°	186.0	193.7	337.6	674.9	1252.5	1233.1	350.1	115.8	101.2	80.1	53.6
85°	72.8	81.4	149.0	312.1	542.5	530.7	126.4	57.4	64.8	52.3	31.9
87.5°	23.9	29.0	53.3	106.9	168.8	162.7	31.0	19.8	28.1	23.9	11.5
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: P881871
 CATALOG NUMBER: NAV-SB1C-722-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6
2.5°	793.3	798.4	804.5	813.4	821.1	827.5	834.2	838.3	839.9	844.7	844.4
5°	799.1	810.2	825.2	839.9	854.3	862.9	870.5	874.4	877.9	880.4	881.1
7.5°	808.6	823.0	846.6	865.8	877.9	884.9	890.0	888.7	890.0	890.6	891.6
10°	816.9	837.0	865.1	883.3	892.6	892.9	891.6	887.1	884.9	885.2	885.9
12.5°	826.8	849.2	879.5	894.8	897.3	890.3	884.9	877.2	874.4	873.1	872.5
15°	840.2	865.8	895.1	900.9	894.5	885.5	876.3	863.8	857.5	852.4	853.9
17.5°	856.5	884.6	907.2	903.1	889.4	874.7	859.7	840.9	827.8	822.4	822.7
20°	879.2	904.4	916.5	898.3	877.6	855.2	829.7	806.7	794.6	789.2	788.5
22.5°	906.6	930.9	925.4	890.0	860.6	824.9	793.0	776.1	770.0	766.2	766.8
25°	939.5	960.2	931.8	877.9	832.9	784.7	760.1	754.7	751.8	749.0	749.0
27.5°	982.2	993.4	936.6	860.0	789.5	741.9	733.0	734.0	733.0	728.2	729.2
30°	1038.7	1036.5	941.1	831.0	739.7	703.3	704.0	708.1	708.8	705.6	707.2
32.5°	1113.1	1090.4	943.3	793.3	692.2	669.5	670.1	674.6	677.8	672.4	674.9
35°	1203.1	1153.3	939.8	746.1	655.5	637.3	632.5	633.8	634.7	629.6	633.1
37.5°	1308.0	1223.8	924.2	693.8	625.1	605.7	595.5	586.8	581.7	577.0	580.1
40°	1423.2	1300.7	895.4	642.7	591.3	572.2	556.9	540.6	523.3	517.0	519.8
42.5°	1543.9	1379.8	860.6	593.9	552.4	536.7	520.5	496.9	471.0	457.9	459.5
45°	1669.0	1460.9	826.5	545.7	512.5	505.8	487.0	458.6	430.5	413.9	412.6
47.5°	1791.5	1537.5	776.4	497.2	475.2	482.5	467.8	441.7	410.4	384.2	381.3
50°	1908.6	1609.3	694.4	448.0	444.8	475.5	461.4	423.8	388.0	354.5	351.7
52.5°	2024.8	1667.4	589.4	403.4	428.6	473.6	453.1	411.7	367.9	332.8	329.0
55°	2123.4	1697.4	488.2	365.1	405.0	457.3	443.2	397.3	339.5	302.2	299.0
57.5°	2179.5	1673.1	404.0	327.4	372.4	430.5	426.3	366.7	305.7	277.0	273.2
60°	2155.3	1574.8	335.1	294.5	341.5	401.4	397.0	336.3	279.9	252.7	248.9
62.5°	2021.6	1387.5	280.5	265.8	313.4	371.8	367.6	313.1	260.1	233.9	229.8
65°	1752.3	1128.7	238.1	241.9	285.0	336.0	342.1	293.6	244.4	218.9	214.8
67.5°	1336.4	817.6	204.9	221.1	257.2	300.9	318.5	279.5	231.4	207.1	203.3
70°	761.7	464.3	176.8	201.0	232.6	268.4	300.3	268.4	217.3	197.2	194.7
72.5°	288.8	213.2	152.9	180.9	209.0	240.9	280.2	250.8	201.0	186.0	183.5
75°	154.1	129.9	128.6	157.3	181.9	214.1	255.0	233.6	188.9	196.6	203.0
77.5°	105.0	91.9	107.5	134.7	152.2	184.4	228.2	207.4	163.7	163.1	150.3
80°	72.8	65.1	87.4	108.5	117.8	155.1	199.1	178.1	133.4	124.5	119.0
82.5°	43.7	42.4	65.4	81.1	83.3	119.7	165.0	149.3	109.1	95.1	95.7
85°	23.9	25.2	41.8	47.5	48.5	83.6	129.2	115.5	83.9	70.5	71.2
87.5°	6.7	8.6	15.3	18.8	23.3	43.4	76.9	68.6	42.1	29.4	29.4
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)