

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: STREETWORKS

Report Number: P881781

Luminaire Tested: **NVN-SB1B-830-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881781
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: STREETWORKS
Catalog Number: NVN-SB1B-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4874 lumens
Efficiency: N/A
Efficacy: 122.5 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

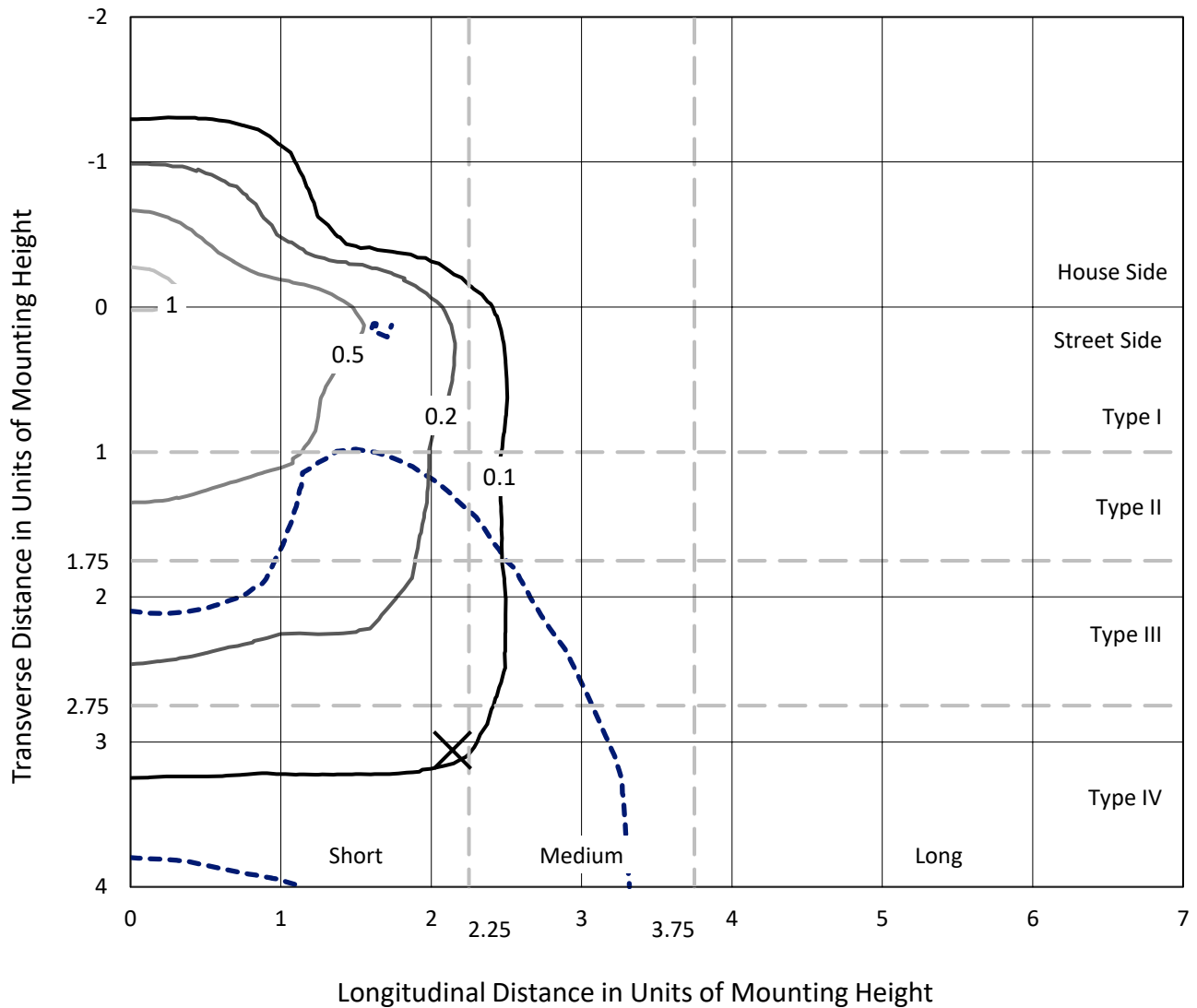
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

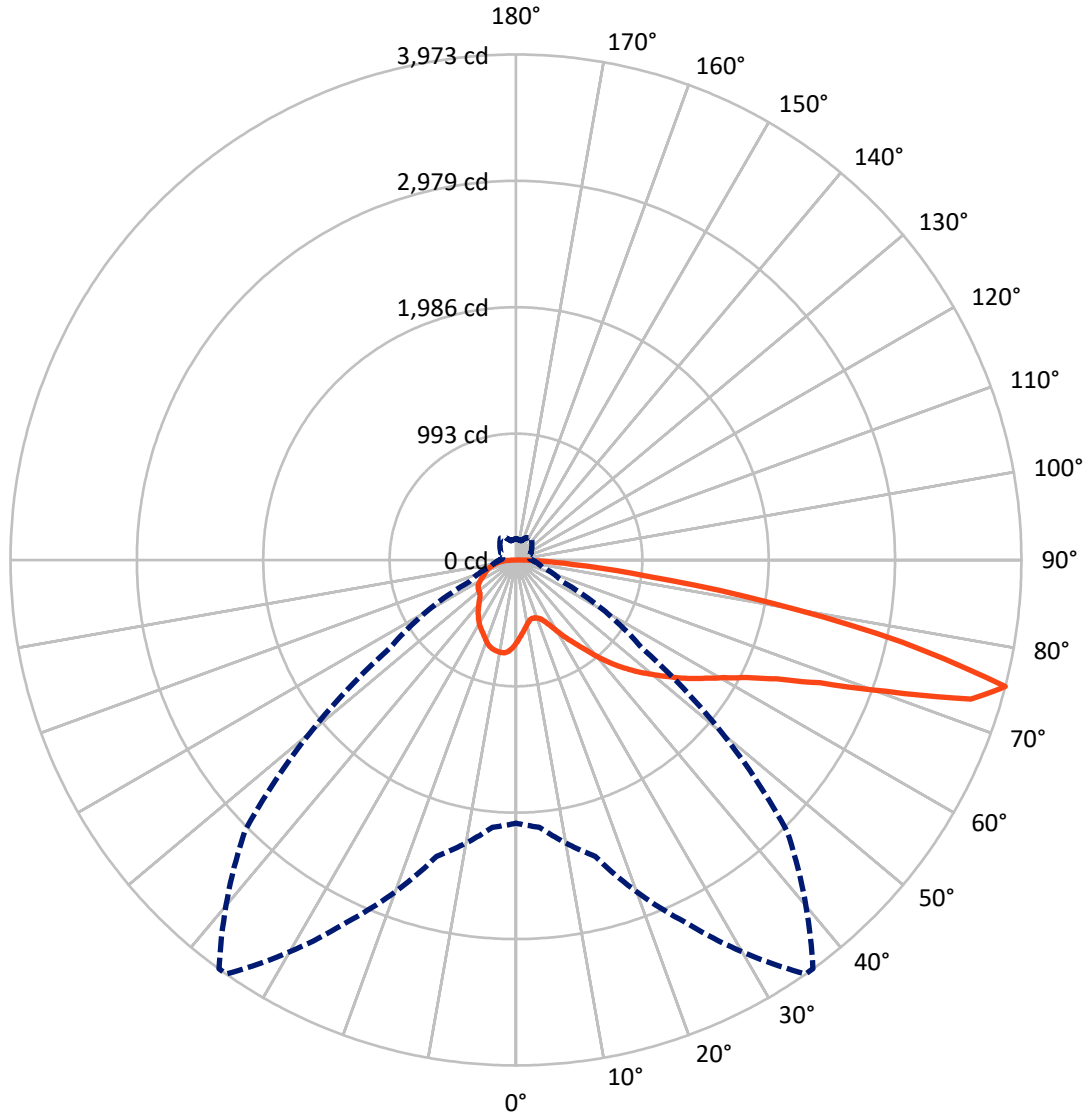
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	1159.9	0.0	1159.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3714.1	0.0	3714.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	4874.0	0.0	4874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	1.3
10°-20°	177.4	3.6
20°-30°	297.9	6.1
30°-40°	462.9	9.5
40°-50°	687.1	14.1
50°-60°	948.6	19.5
60°-70°	1150.8	23.6
70°-80°	951.1	19.5
80°-90°	136.8	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°	4874.0	100.0
0°-180°	4874.0	100.0

Coefficient of Utilization



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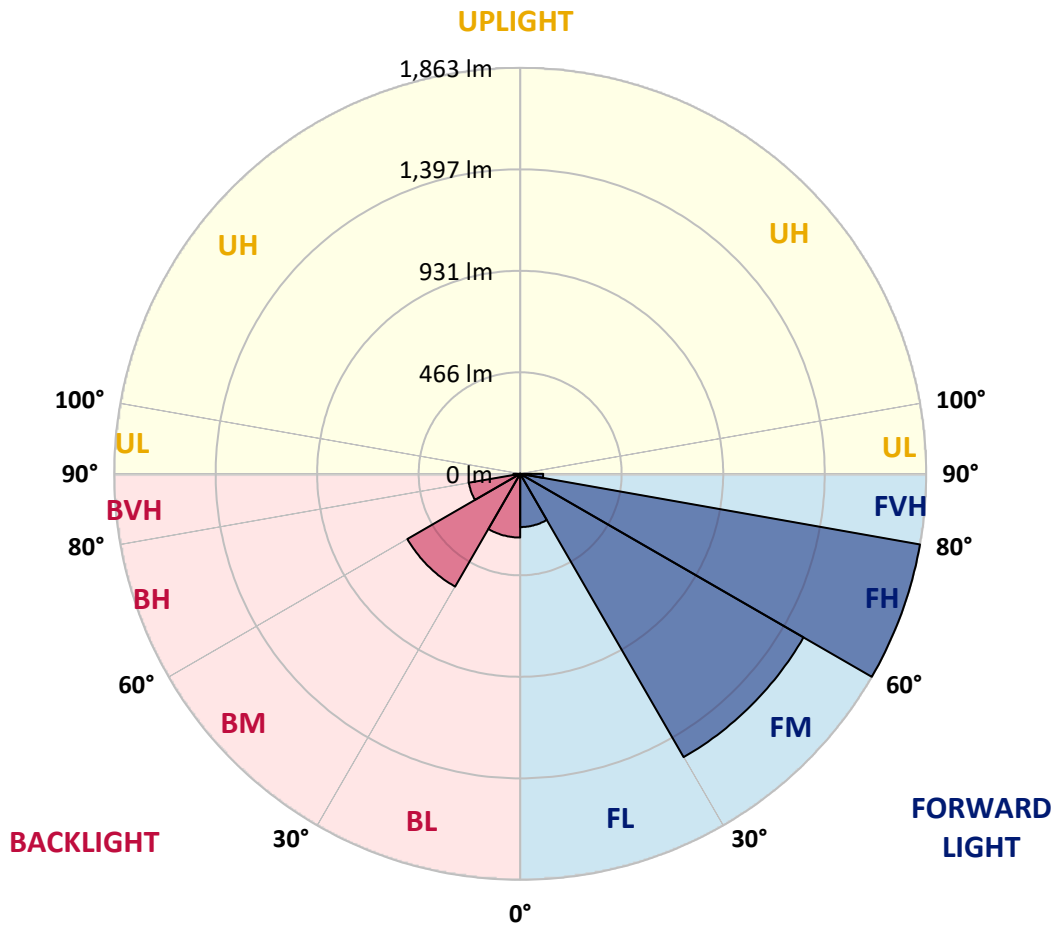
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	244.4	5.0			
FM (30°-60°)	1500.9	30.8			
FH (60°-80°)	1862.8	38.2			G2/5000
FVH (80°-90°)	106.0	2.2			G2/225
BL (0°-30°)	292.3	6.0	B1/500		
BM (30°-60°)	597.6	12.3	B1/1000		
BH (60°-80°)	239.1	4.9	B1/500		G1/500
BVH (80°-90°)	30.8	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°	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5
2.5°	598.9	602.6	604.2	603.4	607.3	606.8	612.3	619.2	628.7	637.9	651.3
5°	552.8	556.7	560.2	563.3	571.0	573.3	582.0	595.2	612.6	630.3	652.4
7.5°	509.8	513.3	518.5	524.3	537.2	539.6	554.1	574.7	598.9	624.7	655.3
10°	474.8	478.2	483.8	490.3	506.4	509.3	527.8	555.2	586.8	619.5	658.5
12.5°	459.8	460.8	464.0	470.6	484.6	486.4	506.7	538.0	574.9	615.5	663.2
15°	459.0	461.1	461.4	464.8	476.4	477.2	495.9	527.0	567.5	614.7	670.3
17.5°	466.9	468.5	466.1	468.2	478.0	479.3	494.0	521.7	565.2	618.1	682.4
20°	488.0	489.3	482.2	479.3	486.4	487.4	501.9	525.1	567.5	625.3	699.0
22.5°	532.8	533.6	516.2	504.3	504.8	505.4	518.0	539.1	576.8	638.2	720.1
25°	602.6	602.1	574.4	551.5	538.3	535.4	543.8	561.8	592.3	655.3	747.2
27.5°	684.3	680.3	652.7	618.4	589.7	585.5	583.6	591.3	614.4	677.9	780.4
30°	776.5	772.8	743.0	698.2	658.5	651.6	634.2	630.3	647.4	708.8	826.6
32.5°	877.7	875.3	839.7	785.5	732.2	724.3	695.1	684.5	698.0	755.4	890.8
35°	962.5	960.4	930.9	875.0	810.0	800.2	770.4	758.6	765.4	815.2	974.9
37.5°	1039.2	1038.1	1012.8	968.8	901.6	889.8	856.3	852.4	851.1	894.0	1076.9
40°	1110.3	1107.7	1081.3	1058.2	1008.4	997.6	968.0	964.6	954.6	991.0	1192.3
42.5°	1189.1	1182.3	1144.1	1133.3	1119.8	1110.9	1093.2	1093.7	1071.6	1100.3	1314.5
45°	1253.4	1249.5	1210.2	1203.9	1218.4	1214.7	1230.0	1233.9	1191.0	1214.9	1441.5
47.5°	1322.4	1318.7	1285.5	1281.1	1320.3	1321.4	1375.4	1376.7	1307.4	1334.0	1568.8
50°	1407.5	1402.3	1369.3	1374.9	1418.9	1422.8	1521.6	1512.7	1414.7	1455.0	1695.0
52.5°	1463.7	1466.8	1459.7	1468.7	1528.7	1532.4	1665.5	1642.6	1520.8	1574.3	1818.8
55°	1505.0	1511.4	1533.5	1554.0	1644.7	1648.4	1801.2	1766.1	1608.8	1685.0	1935.3
57.5°	1558.3	1549.3	1590.7	1630.7	1754.8	1764.6	1933.2	1885.2	1686.8	1780.4	2015.1
60°	1634.7	1628.3	1660.5	1719.8	1878.1	1893.7	2072.8	1992.5	1744.0	1856.0	2030.7
62.5°	1789.6	1773.8	1778.8	1831.2	2033.6	2054.1	2230.4	2086.0	1772.5	1885.5	1947.4
65°	2021.2	1994.1	1968.8	2005.1	2252.5	2272.8	2408.3	2159.5	1761.9	1828.3	1726.4
67.5°	2312.9	2286.0	2254.9	2289.2	2575.1	2591.1	2627.7	2200.9	1678.9	1608.1	1335.6
70°	2553.4	2543.4	2580.6	2721.5	3090.2	3090.7	2909.2	2166.6	1451.5	1140.1	772.8
72.5°	2521.6	2515.5	2711.3	3147.1	3739.4	3725.4	3175.5	1907.4	977.8	514.3	289.6
75°	2068.6	2107.9	2411.2	3139.4	3972.6	3970.7	3012.4	1212.6	404.5	213.2	149.7
77.5°	1109.3	1171.5	1565.4	2317.9	3101.2	3147.9	2117.9	424.2	173.6	136.5	103.6
80°	361.8	416.0	623.9	1180.2	2015.1	2006.4	907.7	166.5	118.8	96.7	71.7
82.5°	153.6	159.9	278.8	557.3	1034.2	1018.1	289.0	95.6	83.5	66.1	44.3
85°	60.1	67.2	123.0	257.7	447.9	438.2	104.3	47.4	53.5	43.2	26.3
87.5°	19.8	24.0	44.0	88.3	139.4	134.4	25.6	16.3	23.2	19.8	9.5
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°	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5	649.5
2.5°	655.0	659.2	664.2	671.6	677.9	683.2	688.8	692.2	693.5	697.4	697.2
5°	659.8	669.0	681.4	693.5	705.4	712.5	718.8	722.0	724.9	727.0	727.5
7.5°	667.7	679.5	699.0	714.8	724.9	730.6	734.9	733.8	734.9	735.4	736.2
10°	674.5	691.1	714.3	729.3	737.0	737.2	736.2	732.5	730.6	730.9	731.4
12.5°	682.7	701.1	726.2	738.8	740.9	735.1	730.6	724.3	722.0	720.9	720.4
15°	693.8	714.8	739.1	743.8	738.6	731.2	723.5	713.3	708.0	703.8	705.1
17.5°	707.2	730.4	749.1	745.7	734.3	722.2	709.8	694.3	683.5	679.0	679.3
20°	725.9	746.7	756.7	741.7	724.6	706.1	685.1	666.1	656.1	651.6	651.1
22.5°	748.6	768.6	764.1	734.9	710.6	681.1	654.8	640.8	635.8	632.6	633.2
25°	775.7	792.8	769.4	724.9	687.7	647.9	627.6	623.1	620.8	618.4	618.4
27.5°	811.0	820.2	773.3	710.1	651.9	612.6	605.2	606.0	605.2	601.3	602.1
30°	857.6	855.8	777.0	686.1	610.8	580.7	581.3	584.7	585.2	582.6	583.9
32.5°	919.0	900.3	778.9	655.0	571.5	552.8	553.3	557.0	559.6	555.2	557.3
35°	993.3	952.2	776.0	616.0	541.2	526.2	522.2	523.3	524.1	519.9	522.8
37.5°	1080.0	1010.5	763.1	572.8	516.2	500.1	491.7	484.6	480.3	476.4	479.0
40°	1175.1	1074.0	739.3	530.7	488.2	472.4	459.8	446.3	432.1	426.8	429.2
42.5°	1274.7	1139.3	710.6	490.3	456.1	443.2	429.7	410.2	388.9	378.1	379.4
45°	1378.0	1206.2	682.4	450.6	423.2	417.6	402.1	378.6	355.4	341.7	340.7
47.5°	1479.2	1269.5	641.1	410.5	392.3	398.4	386.3	364.7	338.8	317.2	314.9
50°	1575.9	1328.8	573.3	369.9	367.3	392.6	381.0	349.9	320.4	292.7	290.4
52.5°	1671.8	1376.7	486.7	333.0	353.9	391.0	374.2	339.9	303.8	274.8	271.7
55°	1753.2	1401.5	403.1	301.4	334.4	377.6	366.0	328.0	280.3	249.5	246.9
57.5°	1799.6	1381.5	333.6	270.3	307.5	355.4	352.0	302.7	252.4	228.7	225.5
60°	1779.6	1300.3	276.7	243.2	281.9	331.5	327.8	277.7	231.1	208.7	205.5
62.5°	1669.2	1145.6	231.6	219.5	258.7	307.0	303.5	258.5	214.7	193.1	189.7
65°	1446.8	932.0	196.6	199.7	235.3	277.5	282.5	242.4	201.8	180.8	177.3
67.5°	1103.5	675.1	169.2	182.6	212.4	248.5	263.0	230.8	191.0	171.0	167.8
70°	628.9	383.4	146.0	166.0	192.1	221.6	247.9	221.6	179.4	162.8	160.7
72.5°	238.5	176.0	126.2	149.4	172.6	198.9	231.3	207.1	166.0	153.6	151.5
75°	127.3	107.2	106.2	129.9	150.2	176.8	210.5	192.9	156.0	162.3	167.6
77.5°	86.7	75.9	88.8	111.2	125.7	152.3	188.4	171.3	135.2	134.6	124.1
80°	60.1	53.8	72.2	89.6	97.2	128.1	164.4	147.0	110.1	102.8	98.3
82.5°	36.1	35.0	54.0	66.9	68.8	98.8	136.2	123.3	90.1	78.5	79.0
85°	19.8	20.8	34.5	39.3	40.0	69.0	106.7	95.4	69.3	58.2	58.8
87.5°	5.5	7.1	12.6	15.5	19.2	35.8	63.5	56.6	34.8	24.2	24.2
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)