

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631832

Luminaire Tested: GWS-SA2B-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6888.6 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

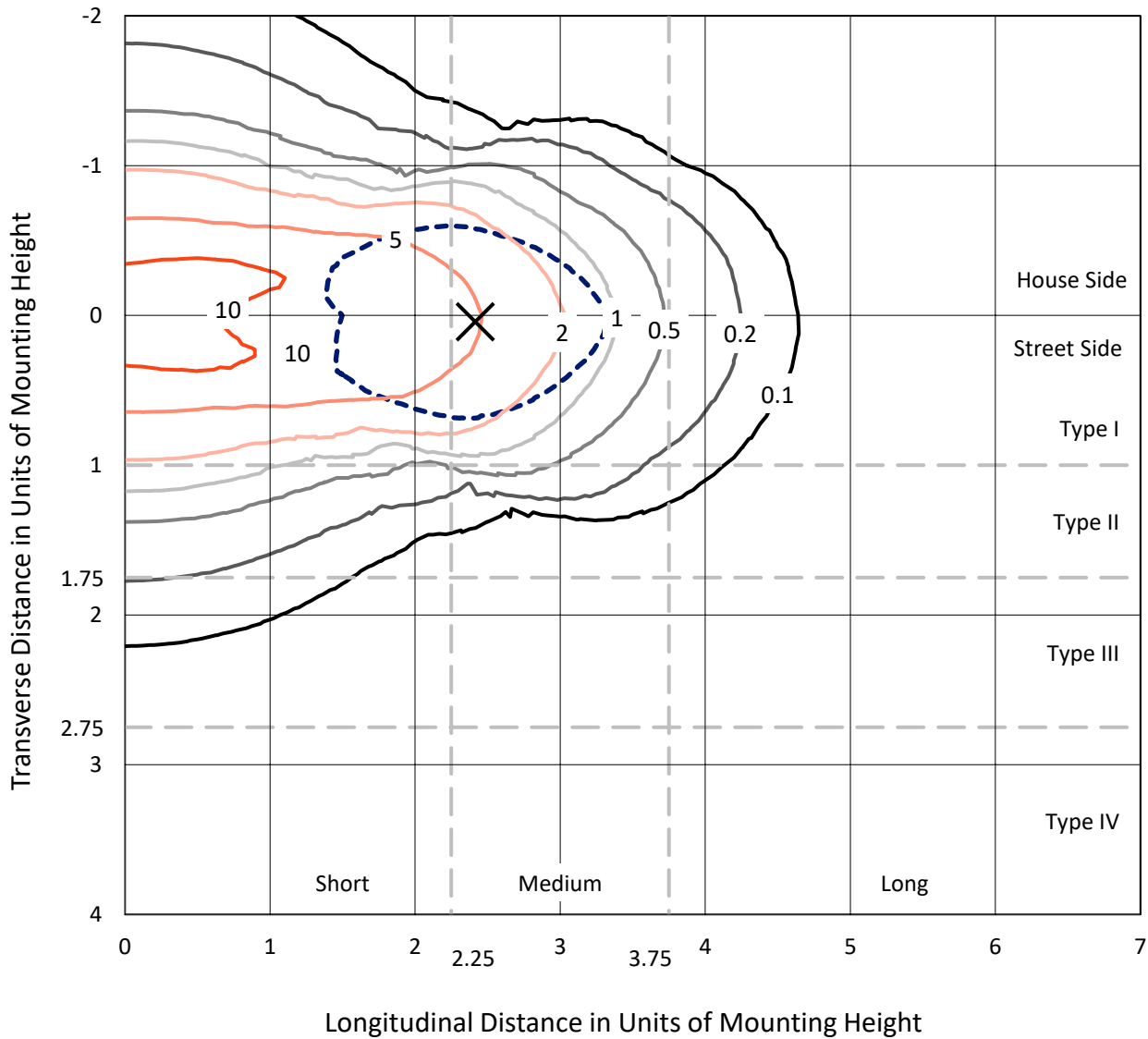
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

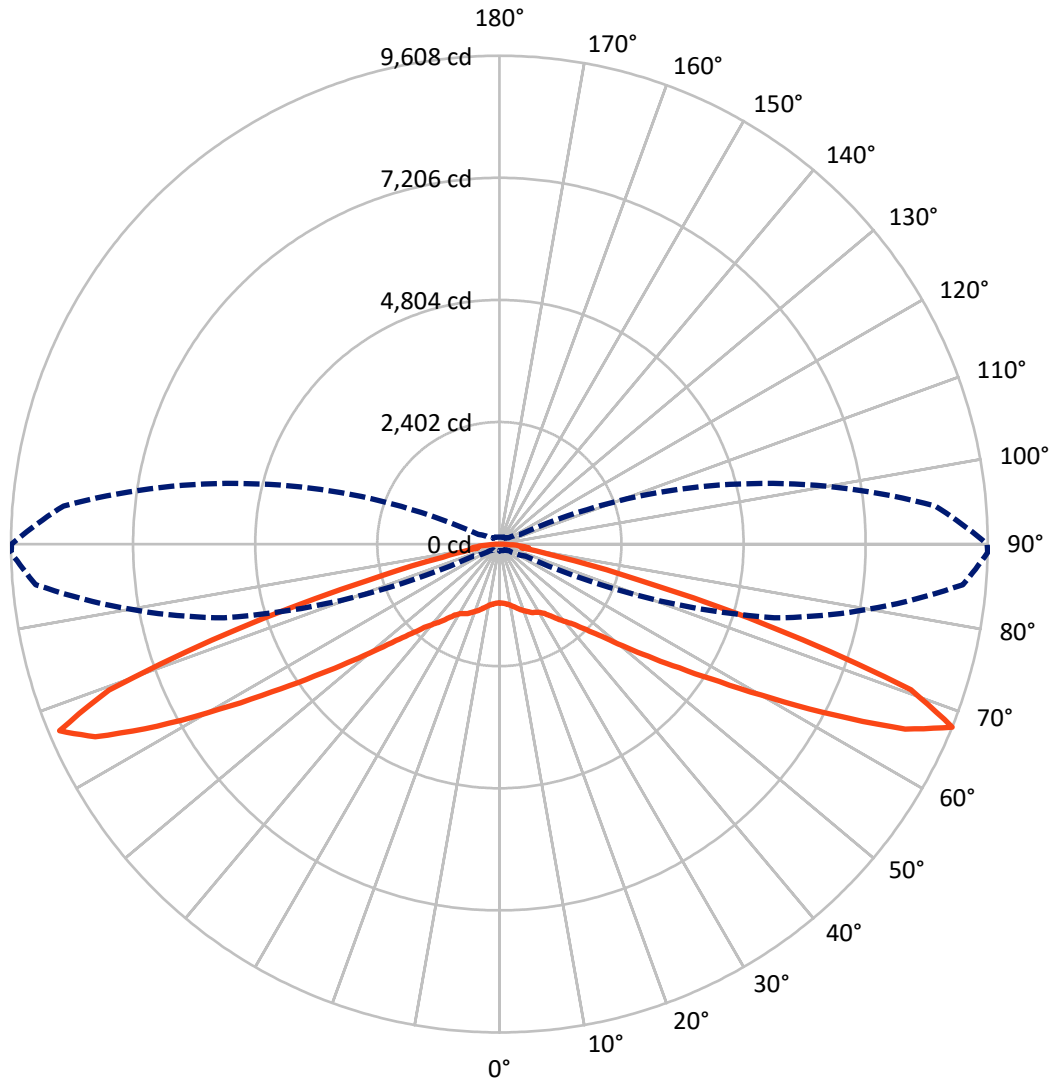
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3414.1	0.0	3414.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	3474.5	0.0	3474.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	6888.6	0.0	6888.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	1.7
10°-20°	377.6	5.5
20°-30°	638.4	9.3
30°-40°	876.1	12.7
40°-50°	1117.2	16.2
50°-60°	1401.7	20.3
60°-70°	1690.6	24.5
70°-80°	611.6	8.9
80°-90°	59.5	0.9
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°	6888.6	100.0
0°-180°	6888.6	100.0

Coefficient of Utilization



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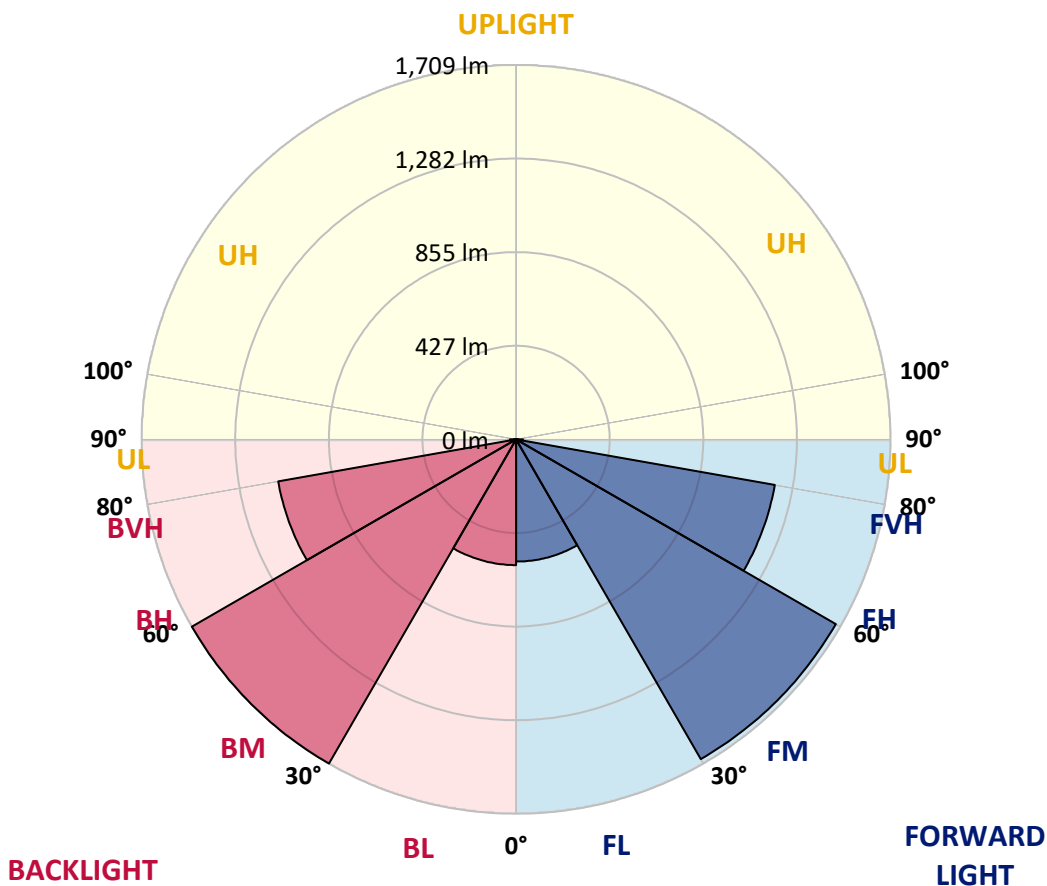
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.9	8.1			
FM (30°-60°)	1685.8	24.5			
FH (60°-80°)	1199.4	17.4			G1/1800
FVH (80°-90°)	31.4	0.5			G1/100
BL (0°-30°)	574.1	8.3	B2/1000		
BM (30°-60°)	1709.2	24.8	B2/2500		
BH (60°-80°)	1102.8	16.0	B3/2500		G3/2500
BVH (80°-90°)	28.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
2.5°	1159.7	1158.7	1156.2	1163.6	1162.1	1162.6	1165.6	1163.6	1160.2	1154.2	1162.6
5°	1192.3	1191.8	1186.4	1190.8	1185.9	1182.4	1181.9	1177.0	1173.0	1166.6	1175.5
7.5°	1224.0	1223.5	1219.0	1226.9	1223.0	1219.0	1214.6	1204.7	1195.3	1185.9	1195.8
10°	1248.2	1247.7	1246.7	1258.1	1259.1	1260.6	1258.6	1241.8	1225.5	1214.1	1224.0
12.5°	1262.1	1263.6	1266.0	1286.8	1297.2	1307.1	1309.6	1295.7	1268.5	1252.2	1264.0
15°	1252.7	1255.6	1268.0	1305.6	1334.3	1356.6	1366.0	1354.6	1319.5	1292.2	1305.6
17.5°	1207.6	1210.1	1234.4	1291.8	1355.1	1406.5	1421.9	1414.9	1375.9	1342.7	1355.6
20°	1145.3	1150.8	1177.0	1257.1	1351.6	1441.2	1482.2	1479.8	1437.2	1386.2	1401.6
22.5°	1088.9	1095.3	1123.0	1211.6	1328.4	1450.1	1543.1	1549.5	1493.1	1429.8	1442.2
25°	1025.6	1031.5	1067.1	1157.7	1288.3	1443.1	1595.0	1624.2	1556.4	1479.8	1491.1
27.5°	960.8	965.2	1000.4	1096.8	1235.8	1430.3	1636.1	1706.3	1618.8	1514.4	1522.3
30°	903.9	909.8	942.0	1036.0	1178.5	1404.6	1669.7	1793.9	1690.5	1553.5	1559.9
32.5°	849.0	853.9	889.0	976.1	1117.6	1365.0	1699.9	1896.8	1796.9	1626.2	1626.2
35°	779.7	788.6	828.2	918.7	1060.2	1312.5	1721.7	2016.5	1942.3	1733.6	1734.0
37.5°	715.9	720.8	762.4	853.9	999.9	1253.2	1723.7	2140.7	2126.4	1870.1	1871.1
40°	643.2	649.6	694.1	784.6	930.6	1190.8	1704.9	2256.5	2319.3	2010.6	2005.2
42.5°	569.4	578.8	621.4	709.9	855.9	1114.6	1654.9	2366.8	2564.2	2173.4	2160.0
45°	498.2	504.1	546.7	630.3	770.3	1023.6	1574.7	2472.7	2855.1	2420.7	2401.4
47.5°	418.1	420.5	464.6	544.7	681.7	922.2	1460.0	2567.2	3174.7	2748.3	2715.1
50°	346.8	350.3	384.9	453.7	573.4	802.0	1317.0	2622.6	3581.9	3195.0	3137.6
52.5°	280.5	284.0	311.7	366.6	474.0	664.9	1139.9	2609.7	3995.0	3749.6	3666.0
55°	226.6	229.1	247.9	290.9	373.0	528.9	930.6	2494.5	4453.6	4473.9	4293.8
57.5°	191.5	192.5	205.3	231.5	291.4	407.7	718.4	2222.4	4934.5	5398.1	5102.2
60°	171.2	171.7	177.6	193.9	230.1	311.2	526.4	1789.0	5432.7	6554.3	6148.6
62.5°	158.3	158.3	163.3	172.7	191.0	239.5	386.9	1284.8	5790.4	7812.4	7409.2
65°	145.9	145.9	149.4	157.3	167.2	195.4	290.4	828.7	5966.0	8864.2	8774.6
67.5°	130.1	130.6	133.1	141.5	150.4	163.3	220.2	560.5	5601.4	9155.1	9608.3
70°	115.3	115.8	119.2	124.7	132.1	141.0	172.2	386.4	4077.1	7624.9	8591.1
72.5°	98.9	100.9	103.4	109.3	113.8	120.2	140.5	250.3	2372.3	4904.8	5679.1
75°	81.1	83.6	86.6	92.5	95.5	98.0	115.8	178.6	1141.4	2485.5	2830.4
77.5°	62.8	65.3	68.8	74.2	76.2	79.2	88.6	129.1	546.7	1101.8	1187.9
80°	42.1	43.0	46.0	52.4	55.9	57.9	65.3	88.1	237.5	442.3	438.3
82.5°	25.7	26.2	27.2	31.2	32.7	34.6	42.5	53.9	113.3	502.7	576.4
85°	9.4	8.9	8.4	10.9	12.9	14.8	19.8	27.2	49.5	345.3	386.4
87.5°	0.0	0.0	0.0	0.5	1.0	1.0	2.0	4.0	11.9	129.1	88.6
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°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
2.5°	1160.2	1154.7	1161.6	1166.6	1177.5	1181.4	1182.4	1179.0	1179.0	1173.0	1174.0
5°	1173.5	1170.0	1181.4	1189.8	1205.7	1211.6	1215.6	1213.1	1214.6	1210.6	1211.6
7.5°	1193.8	1190.8	1210.6	1226.9	1243.3	1250.2	1253.7	1251.7	1252.2	1247.2	1248.7
10°	1222.0	1223.0	1246.7	1268.0	1289.8	1296.7	1298.2	1292.2	1287.3	1278.4	1278.9
12.5°	1260.6	1265.5	1299.2	1322.9	1345.2	1355.1	1344.2	1322.4	1302.1	1286.8	1284.8
15°	1302.6	1311.5	1360.0	1390.2	1414.4	1409.5	1377.3	1328.4	1288.3	1265.5	1261.1
17.5°	1353.1	1366.5	1427.3	1463.4	1484.2	1452.5	1385.3	1312.0	1256.1	1225.5	1219.5
20°	1400.6	1421.9	1498.6	1545.6	1548.0	1476.8	1381.8	1278.9	1208.6	1171.0	1163.1
22.5°	1444.1	1471.3	1573.3	1633.1	1601.0	1487.7	1360.5	1231.9	1151.2	1107.2	1100.3
25°	1491.6	1530.2	1660.3	1716.2	1653.9	1483.2	1316.0	1173.5	1082.0	1037.0	1032.0
27.5°	1524.3	1572.8	1747.9	1801.3	1697.4	1458.0	1258.6	1109.7	1018.7	976.1	969.2
30°	1561.9	1623.7	1844.4	1893.8	1724.2	1420.9	1197.3	1050.3	959.8	913.8	908.8
32.5°	1630.2	1707.8	1964.1	1991.8	1732.6	1374.9	1138.4	992.9	898.4	852.4	845.5
35°	1740.0	1831.0	2132.3	2101.1	1726.1	1324.4	1082.5	925.6	835.6	792.6	785.6
37.5°	1878.5	1991.8	2319.8	2199.6	1708.3	1269.0	1016.2	869.2	779.2	735.7	731.7
40°	2007.6	2147.2	2530.1	2284.7	1672.2	1200.7	952.4	810.4	718.4	672.3	663.4
42.5°	2169.4	2354.9	2773.5	2358.4	1612.8	1119.1	880.6	737.7	642.2	600.6	589.7
45°	2415.3	2645.8	3056.5	2429.1	1524.3	1018.7	790.6	649.1	558.6	516.0	507.6
47.5°	2722.0	3009.5	3363.2	2471.2	1389.7	912.8	688.7	555.6	465.1	417.1	413.1
50°	3152.9	3538.3	3692.2	2463.8	1239.3	787.1	573.9	444.3	368.6	333.9	328.5
52.5°	3677.9	4202.3	4047.9	2374.7	1079.5	644.1	447.2	348.8	292.4	267.7	263.2
55°	4336.4	4997.3	4422.4	2183.8	877.7	493.3	351.3	275.1	236.5	221.6	219.7
57.5°	5151.7	6026.9	4783.1	1862.2	660.0	376.5	270.6	227.1	208.8	199.9	199.4
60°	6227.7	7119.7	5096.3	1447.1	472.5	287.9	223.6	202.8	188.5	182.6	182.1
62.5°	7507.1	8112.2	5291.2	985.5	355.2	229.6	196.9	184.0	175.6	172.2	171.7
65°	8822.1	8739.5	5198.2	645.6	269.6	194.9	176.6	169.7	162.3	158.8	158.8
67.5°	9598.9	8606.9	4484.3	448.2	213.7	171.2	159.3	152.9	140.5	137.5	137.5
70°	8502.0	6974.3	2939.2	328.0	173.2	149.9	138.5	129.6	124.7	121.7	121.2
72.5°	5623.2	4538.2	1562.9	227.6	144.5	127.6	117.3	113.8	107.9	104.9	104.4
75°	2798.7	2383.6	801.0	164.3	120.2	102.4	98.0	96.5	91.5	87.6	86.6
77.5°	1166.6	1061.2	373.5	119.2	91.5	82.6	78.7	78.7	73.2	68.8	66.8
80°	439.8	391.8	176.6	81.6	67.8	61.3	58.9	56.9	52.4	47.0	44.0
82.5°	588.2	384.4	86.6	51.0	44.5	39.6	36.1	34.6	32.2	29.7	27.7
85°	380.9	273.1	39.1	26.2	22.3	16.8	14.8	13.9	12.4	10.9	9.9
87.5°	77.7	91.5	11.9	4.9	3.0	1.5	1.5	0.5	0.0	0.0	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)