

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: P631098

Luminaire Tested: GWS-SA1F-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6388.4 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

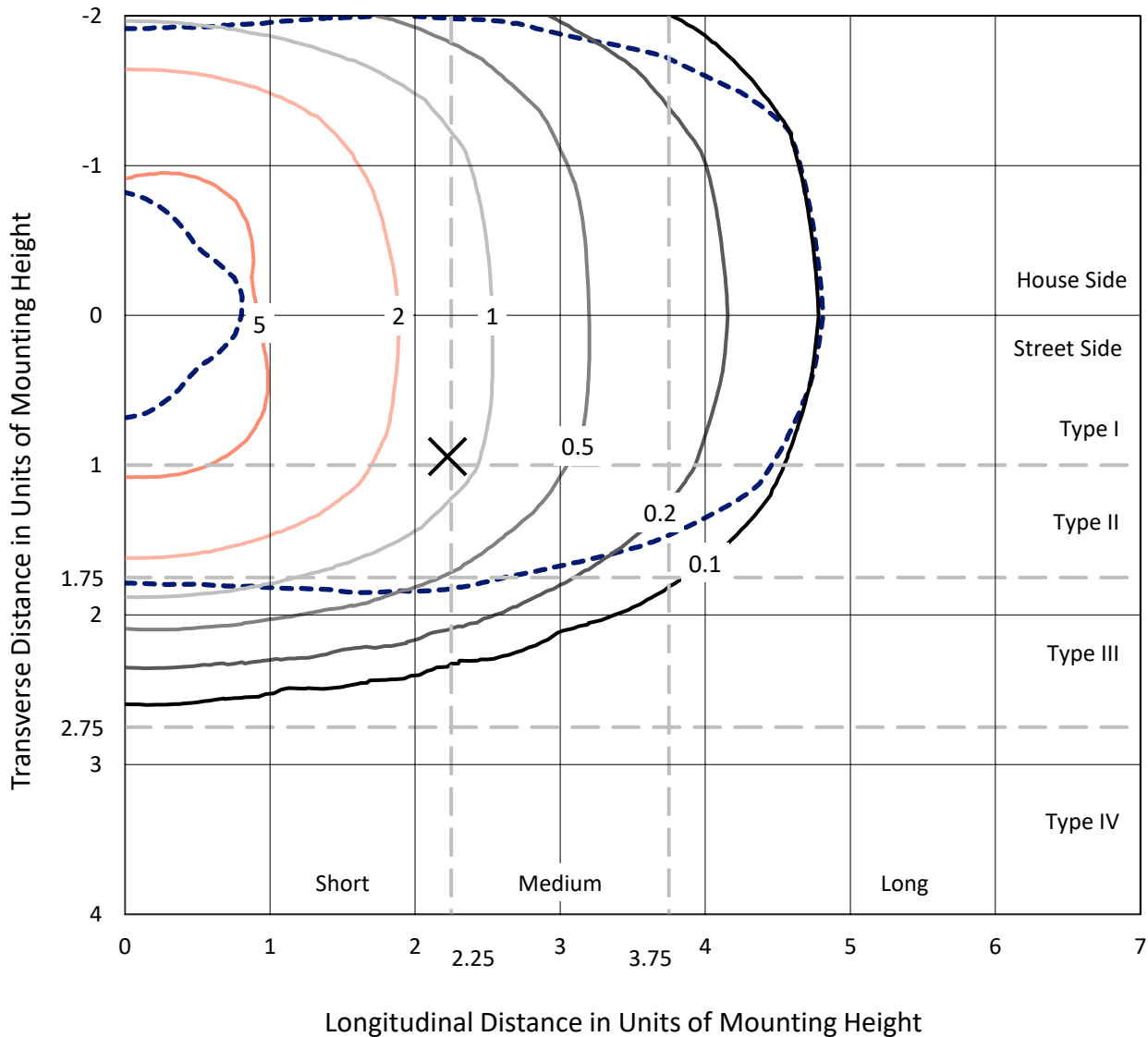
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631098
 CATALOG NUMBER: GWS-SA1F-722-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

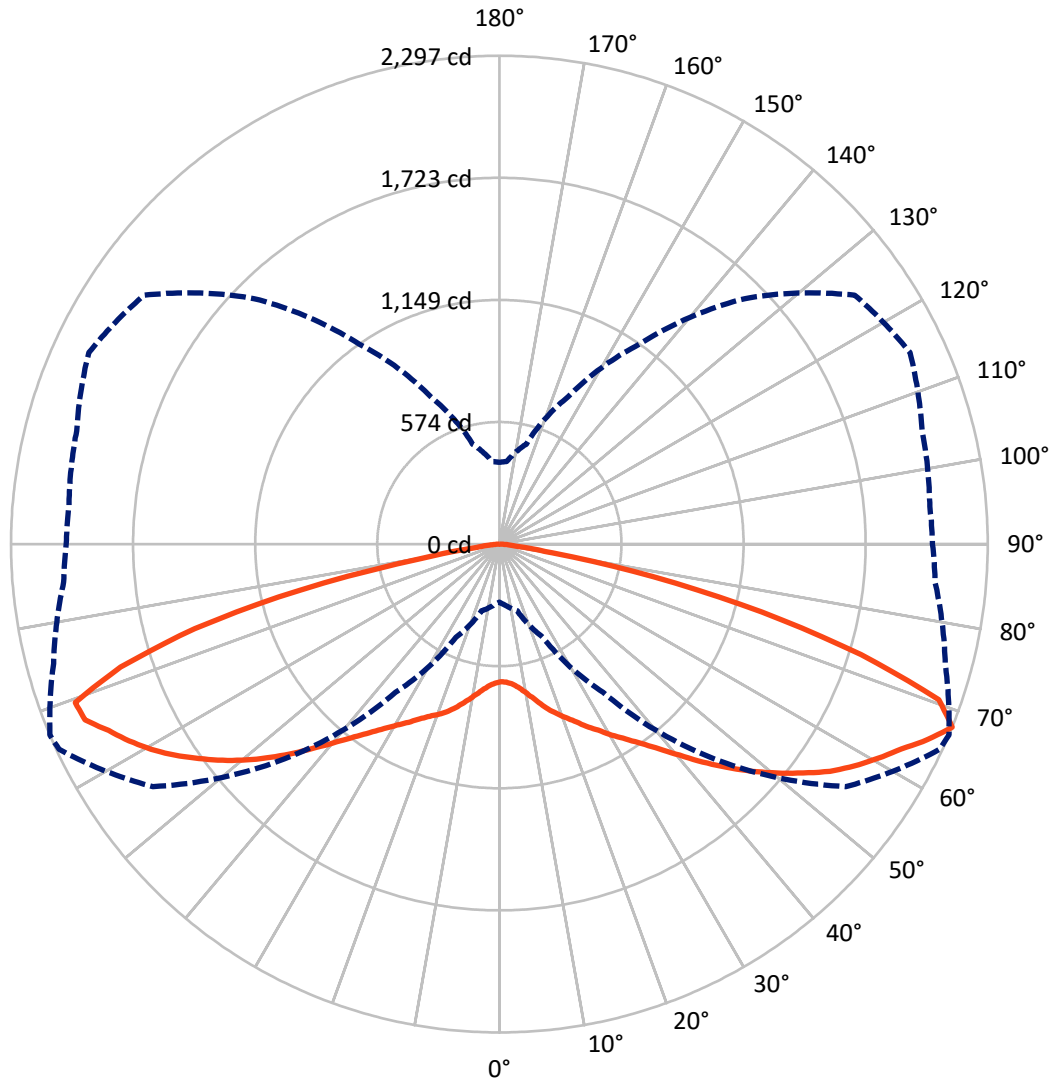
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

REPORT NUMBER: P631098
CATALOG NUMBER: GWS-SA1F-722-U-RW-W

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P631098

CATALOG NUMBER: GWS-SA1F-722-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3159.0	0.0	3159.0
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	3229.5	0.0	3229.5
	% Fixture	50.6	0.0	50.6
Total	Lumens	6388.4	0.0	6388.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	1.0
10°-20°	214.4	3.4
20°-30°	420.7	6.6
30°-40°	716.7	11.2
40°-50°	1150.8	18.0
50°-60°	1563.8	24.5
60°-70°	1495.8	23.4
70°-80°	711.2	11.1
80°-90°	51.5	0.8
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°	6388.4	100.0
0°-180°	6388.4	100.0

Coefficient of Utilization



REPORT NUMBER: P631098

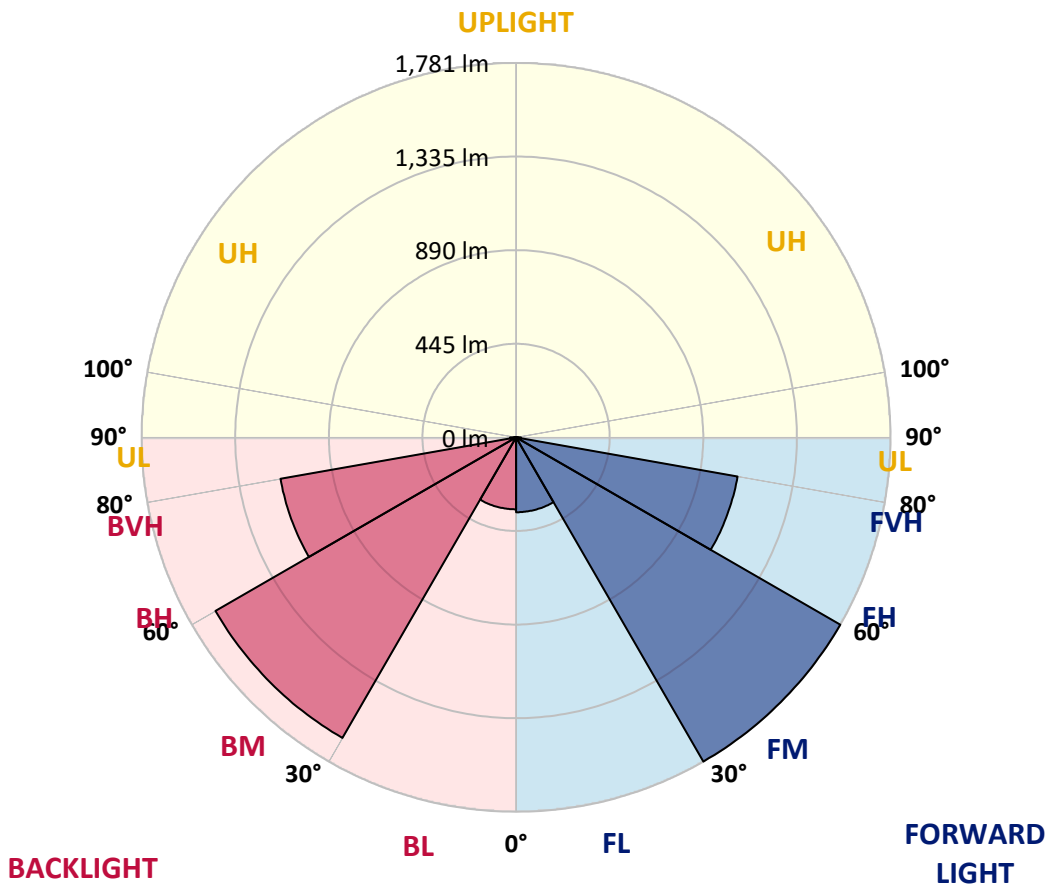
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.2	5.6			
FM (30°-60°)	1780.5	27.9			
FH (60°-80°)	1069.6	16.7			G1/1800
FVH (80°-90°)	23.2	0.4			G1/100
BL (0°-30°)	342.3	5.4	B1/500		
BM (30°-60°)	1650.8	25.8	B2/2500		
BH (60°-80°)	1137.4	17.8	B3/2500		G3/2500
BVH (80°-90°)	28.4	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 III Short





REPORT NUMBER: P631098
 CATALOG NUMBER: GWS-SA1F-722-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	646.9	646.9	646.9	646.9	646.9	646.9	646.9	646.9	646.9	646.9	646.9
2.5°	633.5	634.4	635.7	638.4	641.1	645.1	649.1	648.6	650.4	651.8	653.1
5°	630.0	630.8	633.1	636.6	640.6	647.3	655.8	659.3	662.0	666.9	671.3
7.5°	637.5	639.3	642.4	647.3	653.5	662.0	673.6	679.8	683.8	692.7	700.2
10°	647.8	650.0	656.2	665.5	674.9	687.8	702.5	711.8	714.5	726.1	740.3
12.5°	657.5	660.2	670.4	687.3	704.3	721.6	739.0	750.5	751.4	767.0	783.0
15°	673.1	675.3	689.1	710.9	736.7	760.8	782.1	790.1	793.7	804.8	824.8
17.5°	707.4	710.0	727.8	751.4	778.5	803.9	825.3	831.9	831.9	841.3	857.7
20°	744.3	747.0	770.5	800.8	833.7	859.5	876.0	869.7	867.5	870.2	881.8
22.5°	785.7	790.6	813.2	848.4	888.9	920.5	928.9	910.2	904.0	897.8	900.4
25°	838.6	844.4	866.6	904.0	943.6	977.0	981.9	952.9	949.4	927.6	919.6
27.5°	899.6	904.0	931.6	968.5	1005.4	1033.5	1038.8	1003.2	991.2	960.9	942.3
30°	978.3	982.3	1006.3	1042.8	1074.8	1094.4	1101.1	1052.2	1042.8	996.5	967.6
32.5°	1064.2	1065.9	1090.4	1125.6	1154.0	1172.7	1163.4	1106.4	1092.6	1040.6	1001.0
35°	1162.5	1162.5	1194.1	1222.5	1245.2	1250.6	1232.8	1167.8	1151.8	1095.3	1045.9
37.5°	1259.0	1261.7	1291.1	1324.9	1344.9	1344.0	1311.5	1240.3	1222.1	1160.7	1106.0
40°	1363.6	1369.4	1398.7	1436.5	1455.7	1453.0	1403.2	1324.0	1305.3	1232.8	1179.4
42.5°	1459.7	1469.0	1503.3	1542.0	1562.9	1561.1	1509.0	1420.1	1401.8	1320.0	1266.6
45°	1536.2	1546.0	1588.7	1642.5	1675.9	1672.8	1620.3	1519.7	1497.5	1411.6	1352.9
47.5°	1603.4	1613.6	1661.2	1718.1	1771.1	1776.4	1728.4	1620.3	1596.7	1509.9	1443.6
50°	1655.0	1659.9	1713.2	1775.5	1836.9	1866.7	1824.9	1721.3	1692.8	1606.9	1532.2
52.5°	1651.0	1657.6	1723.5	1808.0	1890.3	1939.2	1910.3	1816.5	1788.9	1695.5	1622.5
55°	1569.6	1576.2	1654.5	1777.8	1920.1	1992.2	1989.1	1907.2	1887.2	1785.8	1716.4
57.5°	1450.8	1465.4	1543.3	1676.3	1881.0	2034.5	2046.9	1990.0	1969.1	1874.3	1809.3
60°	1238.1	1257.7	1347.6	1520.2	1755.5	2020.2	2108.7	2059.8	2046.9	1956.6	1893.4
62.5°	899.6	913.8	1033.5	1259.9	1569.6	1918.8	2160.8	2131.9	2122.1	2030.4	1969.5
65°	538.8	571.2	667.3	891.1	1266.1	1727.5	2132.3	2226.2	2216.0	2106.5	2034.5
67.5°	272.7	287.4	325.2	483.1	851.5	1429.4	1989.5	2284.9	2297.4	2171.5	2057.6
70°	169.1	173.1	183.7	238.5	425.3	939.1	1626.9	2131.9	2192.8	2161.2	1997.5
72.5°	135.7	136.6	138.4	148.6	204.2	439.1	1028.6	1669.6	1779.5	2018.4	1911.7
75°	112.6	113.0	113.4	116.6	127.2	179.3	500.5	1147.4	1275.9	1715.5	1772.4
77.5°	90.3	88.1	89.9	91.2	93.9	100.1	172.6	612.2	742.5	1126.0	1370.7
80°	58.7	57.8	61.4	62.7	65.4	69.4	92.1	207.8	252.2	409.7	436.0
82.5°	31.6	29.8	37.4	36.0	37.4	40.5	54.3	76.1	85.4	123.7	104.5
85°	9.8	9.8	10.2	12.0	14.7	14.2	23.6	37.4	41.4	52.9	39.1
87.5°	1.8	1.8	1.8	1.8	1.8	2.2	4.9	7.6	10.2	18.2	13.8
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: P631098
 CATALOG NUMBER: GWS-SA1F-722-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	646.9	646.9	646.9	646.9	646.9	646.9	646.9	646.9	646.9	646.9	646.9
2.5°	655.8	651.8	654.0	655.3	654.9	654.0	649.5	648.6	646.4	642.9	642.0
5°	675.3	670.9	671.3	670.0	665.5	659.8	650.0	645.1	641.1	636.6	636.2
7.5°	706.0	701.1	699.8	693.6	681.1	667.8	652.2	643.3	636.6	630.8	630.0
10°	745.2	740.3	735.8	721.2	700.7	682.9	662.4	649.5	639.7	632.6	631.3
12.5°	788.8	784.8	773.7	752.3	727.8	706.9	686.0	670.0	655.8	645.1	643.7
15°	837.3	828.4	811.5	783.9	760.8	743.8	718.5	696.7	674.0	659.8	656.6
17.5°	871.1	863.5	843.5	816.8	798.6	783.9	754.1	722.9	692.2	671.3	666.9
20°	895.1	887.1	864.4	844.8	839.1	826.6	791.9	755.9	720.3	694.5	688.7
22.5°	912.5	904.0	880.9	871.1	879.1	876.9	843.1	802.1	759.9	729.2	722.0
25°	928.9	920.9	900.4	904.0	925.4	932.0	895.6	847.9	799.9	763.9	755.4
27.5°	944.5	934.3	924.9	944.5	974.7	987.2	948.5	894.7	842.6	805.7	799.0
30°	968.5	956.5	955.2	983.6	1031.7	1042.4	999.7	945.8	894.2	856.8	848.4
32.5°	998.8	987.6	988.5	1031.2	1086.9	1095.7	1059.3	1009.0	957.4	920.0	908.5
35°	1039.7	1025.9	1033.5	1086.0	1142.0	1158.5	1129.1	1087.3	1037.0	998.8	985.9
37.5°	1096.2	1076.2	1091.7	1146.9	1203.4	1227.9	1205.2	1174.0	1124.2	1085.5	1073.5
40°	1168.3	1151.8	1158.0	1219.0	1277.3	1306.6	1292.4	1261.7	1212.3	1171.8	1158.0
42.5°	1253.7	1237.2	1235.0	1300.0	1358.2	1402.7	1388.9	1360.9	1309.7	1263.5	1250.1
45°	1337.3	1322.2	1325.3	1391.6	1457.0	1505.5	1491.7	1458.8	1403.2	1349.8	1339.1
47.5°	1424.5	1412.1	1414.7	1485.0	1557.1	1605.6	1588.2	1548.2	1483.2	1426.3	1413.4
50°	1513.9	1499.7	1503.7	1577.6	1655.4	1701.2	1674.5	1615.4	1543.7	1488.1	1477.0
52.5°	1602.9	1586.0	1596.2	1666.1	1746.6	1783.1	1733.7	1662.1	1592.7	1537.5	1525.1
55°	1705.2	1687.4	1676.3	1751.1	1830.7	1845.8	1778.2	1694.6	1612.3	1549.5	1542.0
57.5°	1798.7	1783.5	1762.6	1837.4	1896.1	1885.0	1812.5	1685.7	1564.7	1484.1	1473.5
60°	1882.3	1869.4	1851.2	1914.8	1941.5	1916.6	1784.9	1580.2	1447.2	1363.1	1358.2
62.5°	1959.3	1945.5	1928.6	1982.8	1979.3	1921.5	1659.4	1418.3	1240.3	1150.0	1142.0
65°	2020.2	2007.8	2002.9	2045.6	2039.8	1825.8	1464.1	1153.1	906.2	804.3	801.2
67.5°	2037.6	2032.7	2058.9	2131.4	2041.1	1633.6	1148.2	764.8	486.7	390.2	384.4
70°	1972.6	1972.2	2047.4	2151.0	1856.1	1247.9	677.6	344.8	244.7	217.1	213.5
72.5°	1888.1	1886.8	1946.4	1855.6	1376.5	682.9	285.2	184.6	153.0	145.5	145.5
75°	1749.3	1745.7	1790.7	1411.6	774.1	257.1	151.3	126.8	120.1	118.8	118.8
77.5°	1425.9	1396.0	1325.3	872.4	270.0	126.3	100.1	99.7	95.7	95.2	95.2
80°	468.9	468.9	545.0	332.8	119.2	77.9	70.7	74.3	70.3	67.6	67.2
82.5°	76.5	105.4	149.9	95.2	64.5	48.5	43.6	46.3	48.5	38.7	38.7
85°	30.3	39.6	57.8	44.5	29.8	19.6	20.9	23.1	20.5	17.8	17.4
87.5°	11.6	14.2	20.5	10.7	6.2	3.6	2.2	2.2	1.8	1.8	1.8
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)