

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: P631595

Luminaire Tested: GWS-SA2B-722-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-722-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4329.6 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

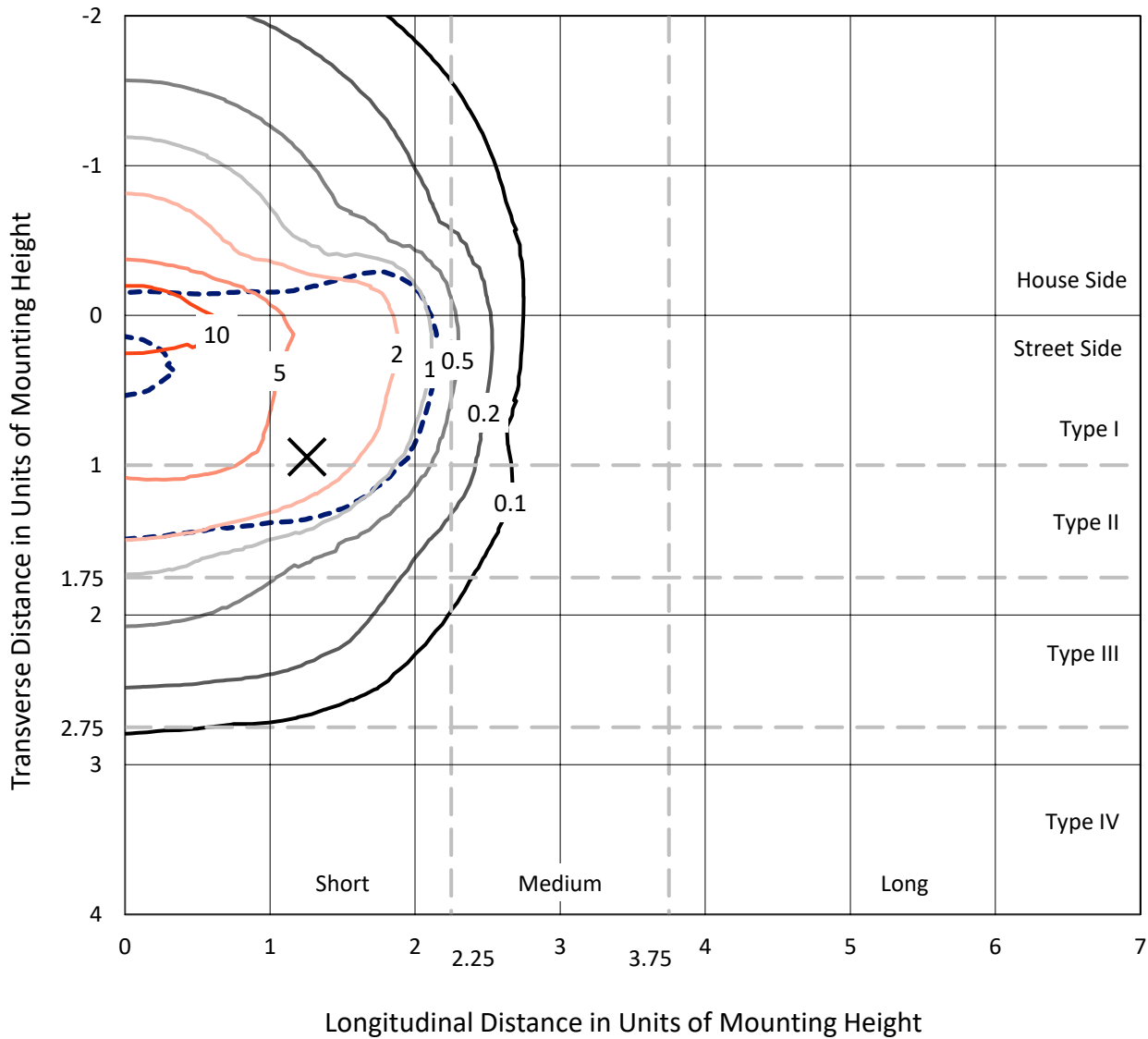
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

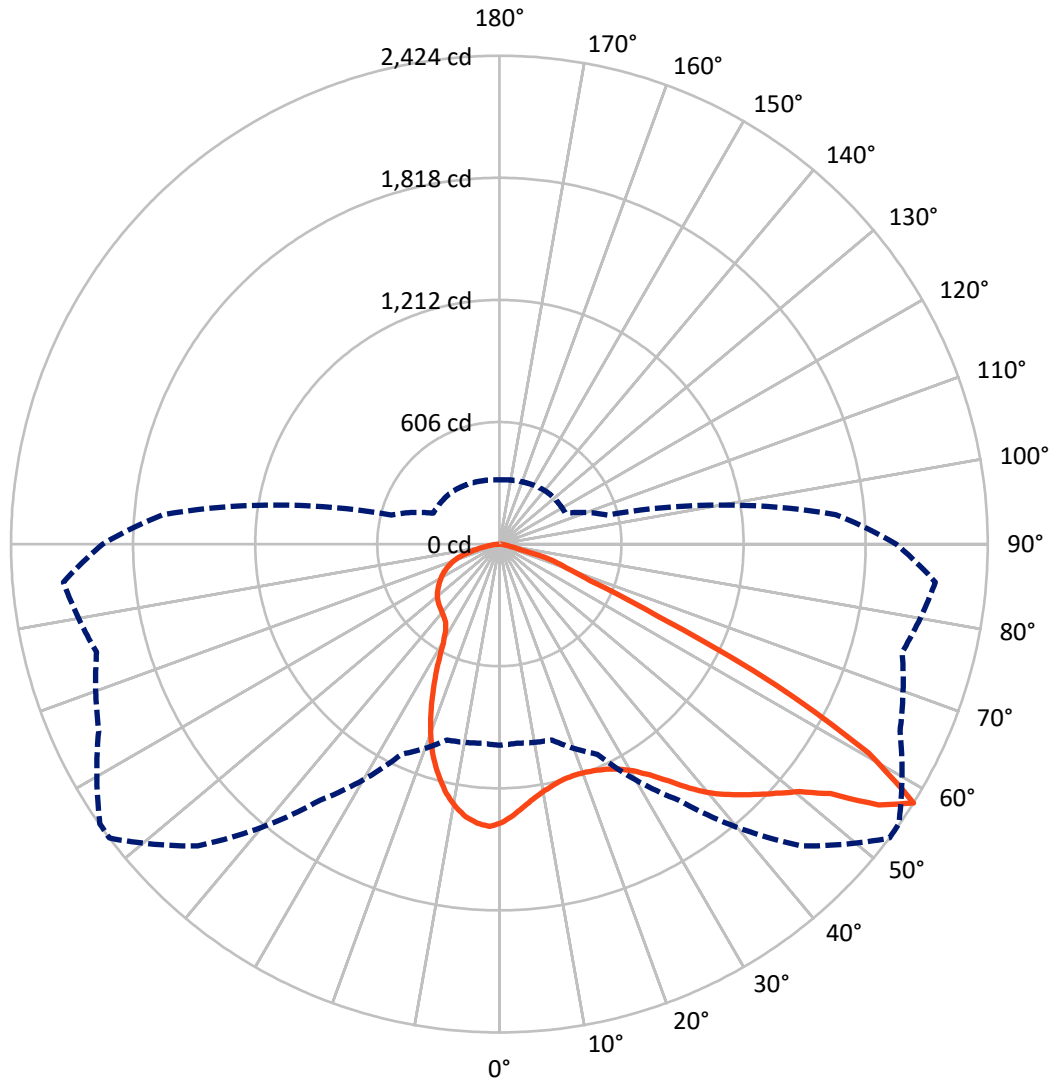
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1353.7	0.0	1353.7
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	2975.9	0.0	2975.9
	% Fixture	68.7	0.0	68.7
Total	Lumens	4329.6	0.0	4329.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	2.9
10°-20°	328.0	7.6
20°-30°	483.3	11.2
30°-40°	676.5	15.6
40°-50°	889.2	20.5
50°-60°	1042.6	24.1
60°-70°	614.2	14.2
70°-80°	152.8	3.5
80°-90°	17.9	0.4
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°	4329.6	100.0
0°-180°	4329.6	100.0

Coefficient of Utilization



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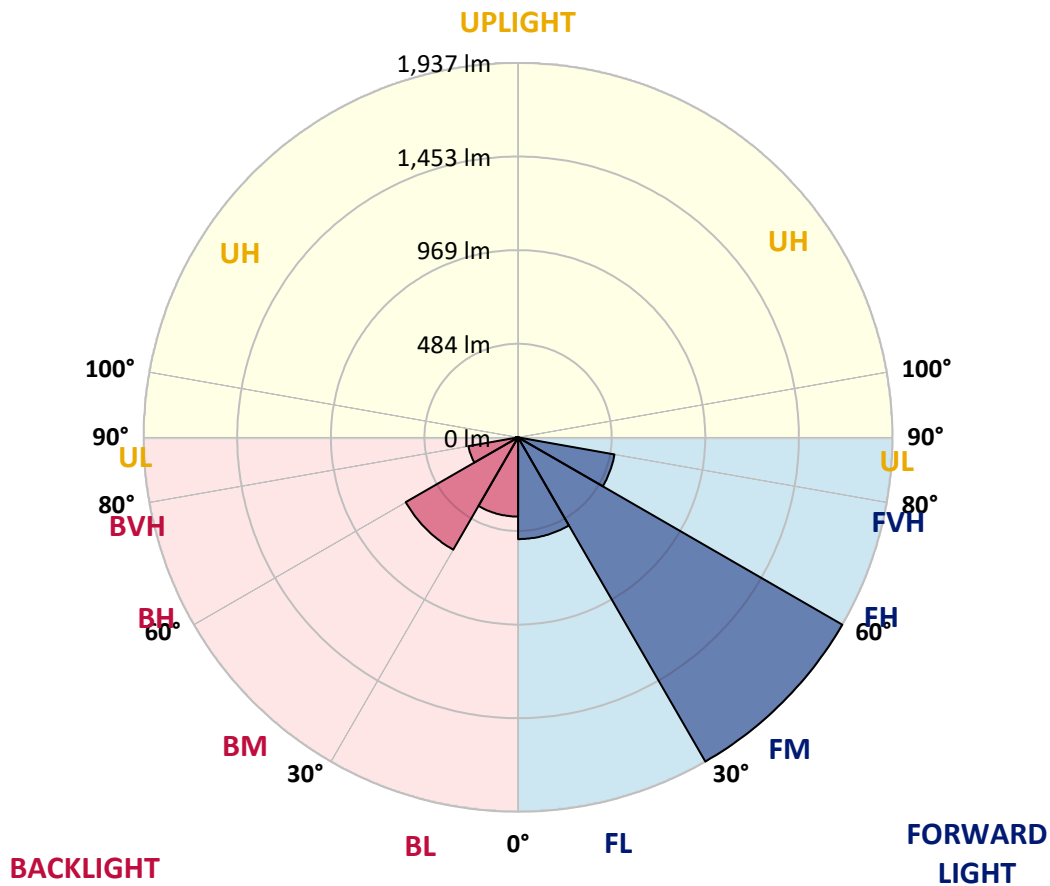
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.4	12.2			
FM (30°-60°)	1937.1	44.7			
FH (60°-80°)	506.4	11.7			G0/660
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	409.9	9.5	B1/500		
BM (30°-60°)	671.2	15.5	B1/1000		
BH (60°-80°)	260.6	6.0	B1/500		G1/500
BVH (80°-90°)	11.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1303.1	1306.8	1307.5	1318.8	1319.5	1335.9	1346.8	1344.7	1356.0	1369.8	1380.7
5°	1240.8	1241.2	1244.8	1258.3	1265.6	1287.1	1305.3	1305.3	1327.2	1355.6	1380.0
7.5°	1189.4	1189.1	1192.3	1207.3	1219.3	1245.2	1270.0	1272.9	1303.5	1345.0	1384.7
10°	1141.7	1144.2	1147.9	1166.1	1181.4	1213.5	1243.0	1247.7	1286.4	1337.7	1391.3
12.5°	1111.1	1111.4	1116.9	1137.3	1157.0	1191.2	1222.2	1228.0	1272.5	1330.8	1396.0
15°	1091.4	1091.8	1097.6	1120.2	1143.1	1177.8	1209.5	1216.0	1264.5	1329.7	1405.2
17.5°	1082.7	1082.3	1087.8	1110.3	1135.5	1171.6	1205.5	1213.5	1268.1	1338.1	1421.2
20°	1082.7	1083.0	1085.9	1106.3	1131.8	1170.1	1209.5	1219.3	1282.3	1357.0	1446.0
22.5°	1098.0	1099.4	1100.9	1114.7	1134.8	1172.3	1220.0	1233.2	1313.0	1388.8	1478.4
25°	1127.8	1128.2	1129.7	1141.0	1150.1	1178.5	1237.5	1257.2	1360.7	1435.0	1519.2
27.5°	1167.9	1173.0	1174.5	1181.8	1181.8	1193.8	1264.9	1293.3	1425.2	1501.7	1571.3
30°	1224.0	1225.9	1228.4	1236.4	1227.7	1222.6	1304.9	1341.4	1499.9	1582.3	1634.0
32.5°	1273.2	1277.2	1291.1	1304.2	1288.5	1272.5	1364.0	1407.0	1571.7	1666.1	1700.7
35°	1315.1	1325.0	1351.6	1380.7	1369.8	1353.8	1442.3	1487.1	1630.7	1726.2	1759.7
37.5°	1365.8	1373.4	1409.9	1457.3	1467.1	1459.4	1537.8	1569.9	1670.1	1741.5	1791.8
40°	1417.2	1428.8	1475.8	1541.4	1579.0	1584.4	1626.0	1647.5	1683.6	1711.6	1785.6
42.5°	1469.7	1489.7	1554.2	1630.7	1697.4	1709.8	1700.3	1709.4	1679.2	1670.4	1756.8
45°	1533.8	1557.5	1630.4	1728.0	1815.8	1835.2	1773.2	1764.8	1678.5	1654.8	1738.9
47.5°	1609.6	1633.3	1702.9	1816.6	1928.8	1943.0	1847.9	1832.6	1704.0	1678.8	1763.0
50°	1676.6	1693.0	1755.3	1882.5	2034.1	2042.5	1930.3	1911.7	1767.4	1745.5	1838.1
52.5°	1608.5	1606.7	1672.3	1829.0	2088.8	2189.7	2057.1	2039.2	1889.8	1856.3	1954.3
55°	1364.7	1343.9	1402.6	1556.7	1936.1	2320.5	2284.5	2248.8	2053.1	1967.8	2063.3
57.5°	997.7	991.9	1006.1	1150.8	1550.9	2117.9	2423.7	2420.4	2194.1	2069.8	2171.9
60°	780.2	771.4	733.6	737.6	1057.1	1654.4	2103.4	2199.9	2281.5	2131.0	2247.7
62.5°	692.7	686.2	666.5	612.2	629.7	1109.3	1541.8	1630.4	1993.7	1882.2	1930.6
65°	573.6	571.8	588.2	586.0	527.7	612.6	870.2	959.5	1253.6	1269.2	1253.6
67.5°	416.9	413.6	455.1	537.1	508.0	462.4	485.0	516.0	642.8	577.2	519.6
70°	271.1	266.4	290.4	388.1	454.8	403.0	349.5	344.4	353.5	219.7	237.6
72.5°	181.8	176.4	176.0	213.5	274.8	271.5	270.8	268.2	239.4	173.5	192.4
75°	101.3	96.9	95.8	92.2	98.4	100.2	106.8	110.4	119.5	131.6	145.8
77.5°	17.1	16.8	21.1	27.0	37.2	47.7	59.0	62.3	76.9	91.1	100.2
80°	9.5	9.8	12.8	15.7	20.8	28.4	36.4	38.6	47.4	55.0	62.3
82.5°	5.1	5.1	6.6	8.4	11.3	14.9	19.7	21.5	27.3	32.1	37.2
85°	1.8	1.8	2.6	3.3	4.7	6.2	7.7	8.7	12.0	16.4	18.6
87.5°	0.0	0.0	0.0	0.0	0.4	0.7	1.5	1.5	1.8	3.3	4.7
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°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1389.8	1380.0	1393.5	1399.7	1401.9	1403.3	1393.9	1387.3	1385.1	1378.2	1374.2
5°	1394.9	1388.4	1401.1	1401.1	1392.0	1382.6	1363.2	1349.8	1340.3	1329.0	1327.2
7.5°	1403.7	1399.0	1405.9	1391.7	1368.7	1343.2	1309.7	1283.4	1262.3	1248.5	1248.8
10°	1415.4	1409.5	1404.1	1372.4	1330.4	1283.4	1232.1	1193.8	1158.8	1142.8	1134.0
12.5°	1423.0	1414.6	1391.7	1339.2	1277.6	1214.6	1142.0	1085.2	1034.6	1011.6	1009.8
15°	1432.5	1417.2	1371.3	1296.2	1210.6	1124.6	1031.3	952.2	883.7	848.0	846.2
17.5°	1444.9	1419.7	1346.8	1247.0	1139.9	1013.1	895.7	796.2	723.3	695.7	700.4
20°	1462.4	1422.6	1319.2	1192.3	1052.0	886.2	740.1	648.6	620.6	618.8	615.1
22.5°	1482.0	1424.5	1288.5	1131.1	945.6	751.0	611.5	572.5	572.1	581.2	583.4
25°	1504.3	1425.9	1253.9	1059.7	830.5	616.2	540.8	529.1	538.2	555.4	557.5
27.5°	1532.7	1428.8	1212.0	981.3	708.0	532.4	501.8	498.9	509.8	525.8	525.1
30°	1574.6	1439.4	1167.6	891.3	582.3	492.7	478.1	478.5	482.8	490.5	491.6
32.5°	1617.2	1455.8	1124.2	790.0	510.2	470.1	463.5	462.8	462.8	466.1	466.8
35°	1657.7	1474.4	1077.2	684.4	475.2	457.0	452.6	450.4	449.3	448.6	447.5
37.5°	1680.3	1483.5	1031.3	580.1	456.6	448.2	443.8	440.9	436.9	434.0	433.3
40°	1670.4	1472.9	978.1	502.2	445.3	439.8	434.7	430.7	425.3	422.7	421.3
42.5°	1637.6	1440.1	920.1	465.3	436.2	430.7	424.5	418.0	414.3	412.1	411.8
45°	1603.0	1400.4	850.2	443.8	427.4	420.9	413.6	406.3	402.3	401.2	400.8
47.5°	1601.9	1380.7	775.8	426.7	416.9	410.3	401.2	393.9	389.6	388.1	386.6
50°	1650.0	1400.8	692.0	411.8	405.9	399.0	388.8	380.8	375.3	373.5	373.2
52.5°	1749.9	1476.2	616.9	396.8	391.4	383.4	375.0	367.0	360.4	357.1	356.8
55°	1857.7	1572.0	570.3	381.5	374.2	367.3	359.7	350.9	343.6	338.5	337.8
57.5°	1969.3	1676.6	556.1	362.2	356.8	352.0	342.9	333.4	325.1	320.3	319.2
60°	2061.1	1766.6	582.7	341.8	338.9	332.7	324.3	315.2	309.4	305.7	305.0
62.5°	1725.5	1438.3	470.4	319.6	319.6	313.0	303.6	297.0	293.0	290.4	289.7
65°	1095.0	890.6	321.0	297.4	297.0	288.2	280.2	275.9	274.0	270.0	269.3
67.5°	477.0	407.0	274.4	274.8	273.3	263.8	255.8	252.5	248.9	244.5	244.2
70°	247.4	252.2	245.6	249.6	247.1	235.8	228.1	223.0	215.4	211.0	211.4
72.5°	199.7	204.8	212.1	218.3	212.8	203.7	191.7	185.5	175.6	170.9	171.3
75°	152.3	157.8	164.7	171.3	166.9	155.6	147.9	141.8	130.5	125.0	126.1
77.5°	104.9	107.9	116.2	115.9	114.4	111.1	99.8	92.6	80.9	74.3	75.1
80°	65.2	67.1	71.1	72.9	72.2	67.8	58.7	53.2	46.3	42.3	42.6
82.5°	39.4	40.4	44.1	44.5	44.1	40.8	33.9	29.9	25.5	23.3	23.3
85°	20.0	20.8	23.0	23.0	20.8	17.5	15.7	13.8	11.3	10.2	10.2
87.5°	5.5	5.5	6.9	5.8	4.7	4.4	2.2	1.8	0.7	0.4	0.4
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)