

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: P630548

Luminaire Tested: GWS-SA1D-830-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630548
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-SA1D-830-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4958.7 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

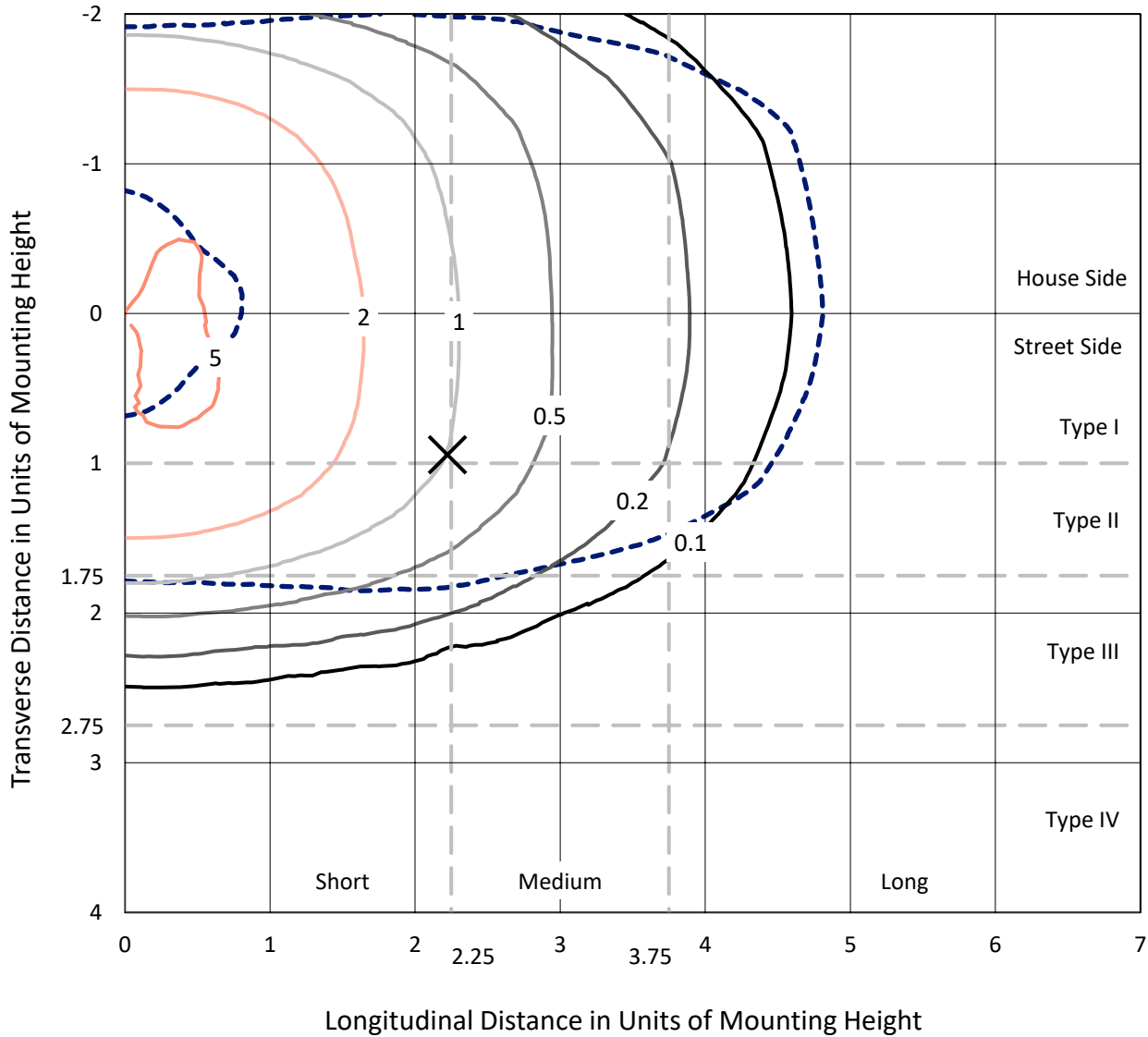
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630548
 CATALOG NUMBER: GWS-SA1D-830-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

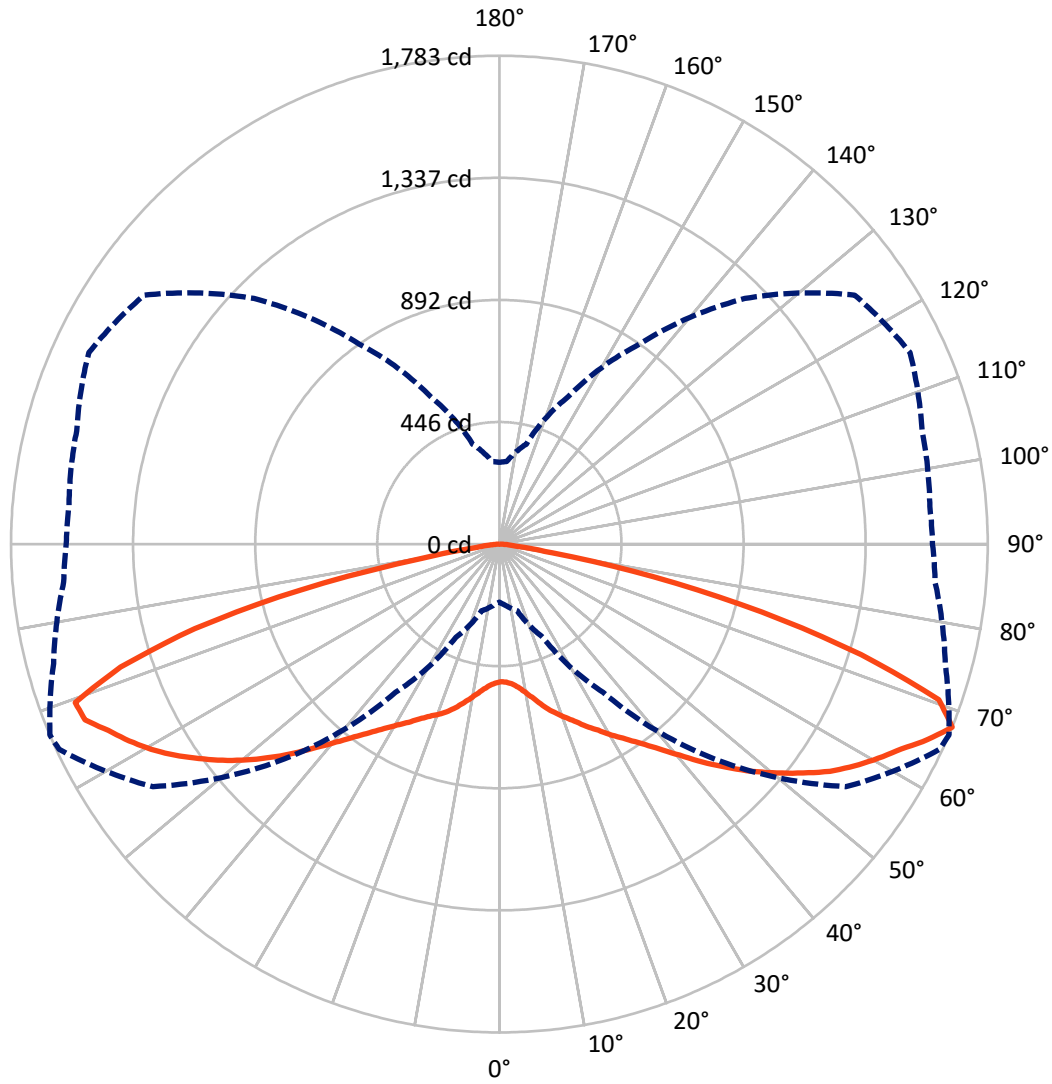
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

REPORT NUMBER: P630548
CATALOG NUMBER: GWS-SA1D-830-U-RW-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P630548

CATALOG NUMBER: GWS-SA1D-830-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2452.0	0.0	2452.0
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	2506.7	0.0	2506.7
	% Fixture	50.6	0.0	50.6
Total	Lumens	4958.7	0.0	4958.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.0
10°-20°	166.4	3.4
20°-30°	326.5	6.6
30°-40°	556.3	11.2
40°-50°	893.3	18.0
50°-60°	1213.8	24.5
60°-70°	1161.1	23.4
70°-80°	552.0	11.1
80°-90°	40.0	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°	4958.7	100.0
0°-180°	4958.7	100.0

Coefficient of Utilization



REPORT NUMBER: P630548

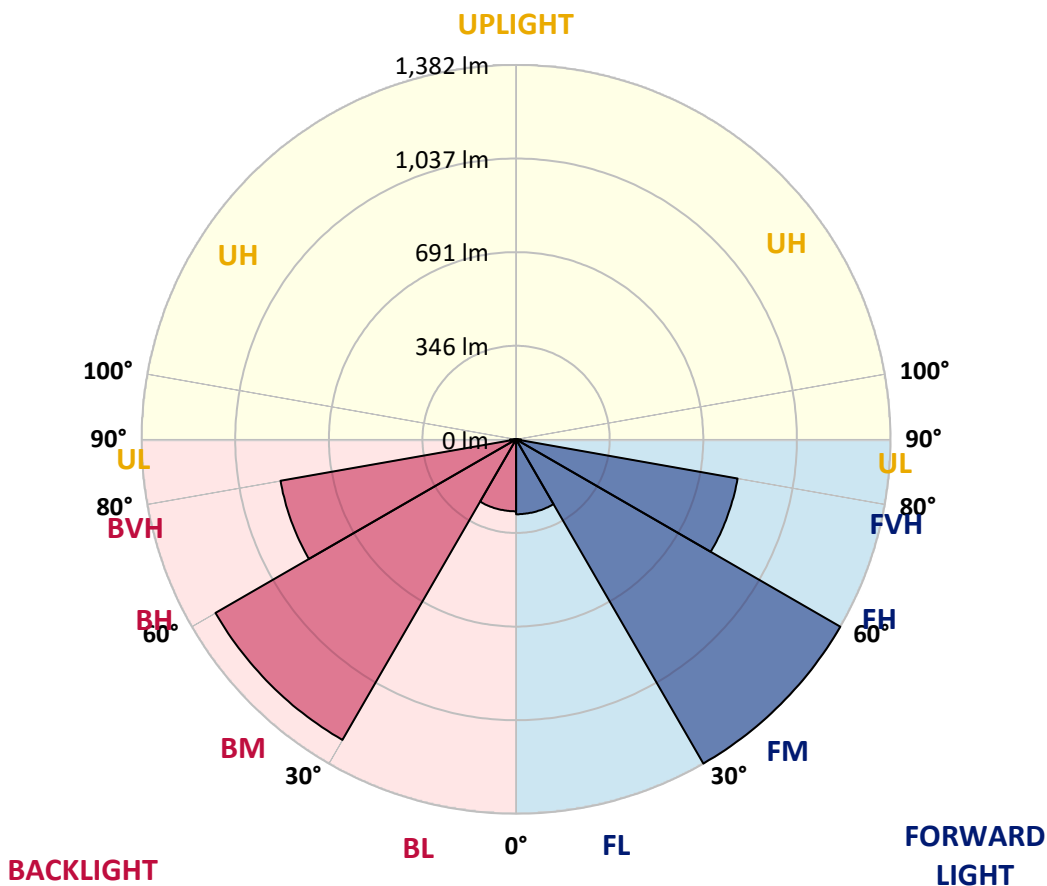
CATALOG NUMBER: GWS-SA1D-830-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.5	5.6			
FM (30°-60°)	1382.0	27.9			
FH (60°-80°)	830.2	16.7			G1/1800
FVH (80°-90°)	18.0	0.4			G1/100
BL (0°-30°)	265.7	5.4	B1/500		
BM (30°-60°)	1281.3	25.8	B2/2500		
BH (60°-80°)	882.9	17.8	B2/1000		G2/1000
BVH (80°-90°)	22.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P630548
 CATALOG NUMBER: GWS-SA1D-830-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1
2.5°	491.7	492.4	493.5	495.5	497.6	500.7	503.8	503.5	504.9	505.9	506.9
5°	489.0	489.7	491.4	494.2	497.3	502.4	509.0	511.8	513.8	517.6	521.1
7.5°	494.8	496.2	498.6	502.4	507.3	513.8	522.8	527.6	530.8	537.7	543.5
10°	502.8	504.5	509.3	516.6	523.9	533.9	545.3	552.5	554.6	563.6	574.6
12.5°	510.4	512.5	520.4	533.5	546.6	560.1	573.6	582.6	583.2	595.3	607.8
15°	522.5	524.2	534.9	551.8	571.9	590.5	607.1	613.3	616.1	624.7	640.2
17.5°	549.1	551.1	564.9	583.2	604.3	624.0	640.6	645.7	645.7	653.0	665.8
20°	577.7	579.8	598.1	621.6	647.1	667.2	679.9	675.1	673.4	675.4	684.4
22.5°	609.8	613.6	631.2	658.5	690.0	714.5	721.0	706.5	701.7	696.9	698.9
25°	650.9	655.4	672.7	701.7	732.4	758.3	762.1	739.7	736.9	720.0	713.8
27.5°	698.2	701.7	723.1	751.8	780.4	802.2	806.3	778.7	769.4	745.9	731.4
30°	759.4	762.5	781.1	809.4	834.3	849.5	854.7	816.7	809.4	773.5	751.1
32.5°	826.0	827.4	846.4	873.7	895.8	910.3	903.0	858.8	848.1	807.7	777.0
35°	902.3	902.3	926.8	948.9	966.6	970.7	956.9	906.5	894.0	850.2	811.8
37.5°	977.3	979.3	1002.1	1028.4	1043.9	1043.2	1018.0	962.8	948.6	900.9	858.5
40°	1058.4	1062.9	1085.7	1115.0	1129.9	1127.8	1089.1	1027.7	1013.2	956.9	915.4
42.5°	1133.0	1140.2	1166.8	1196.9	1213.1	1211.7	1171.3	1102.3	1088.1	1024.6	983.1
45°	1192.4	1200.0	1233.1	1274.9	1300.8	1298.4	1257.7	1179.6	1162.3	1095.7	1050.1
47.5°	1244.5	1252.5	1289.4	1333.6	1374.7	1378.9	1341.6	1257.7	1239.4	1172.0	1120.6
50°	1284.6	1288.4	1329.8	1378.2	1425.8	1449.0	1416.5	1336.0	1313.9	1247.3	1189.3
52.5°	1281.5	1286.7	1337.8	1403.4	1467.3	1505.3	1482.8	1409.9	1388.5	1316.0	1259.4
55°	1218.3	1223.5	1284.2	1379.9	1490.4	1546.3	1543.9	1480.4	1464.8	1386.1	1332.2
57.5°	1126.1	1137.5	1197.9	1301.2	1460.0	1579.2	1588.8	1544.6	1528.4	1454.8	1404.4
60°	961.0	976.2	1046.0	1180.0	1362.6	1568.1	1636.8	1598.8	1588.8	1518.7	1469.7
62.5°	698.2	709.3	802.2	977.9	1218.3	1489.4	1677.2	1654.8	1647.2	1576.0	1528.7
65°	418.2	443.4	518.0	691.7	982.8	1340.9	1655.1	1728.0	1720.0	1635.1	1579.2
67.5°	211.7	223.1	252.4	375.0	660.9	1109.5	1544.3	1773.6	1783.2	1685.5	1597.1
70°	131.2	134.3	142.6	185.1	330.1	729.0	1262.8	1654.8	1702.1	1677.6	1550.5
72.5°	105.3	106.0	107.4	115.3	158.5	340.8	798.4	1296.0	1381.3	1566.7	1483.8
75°	87.4	87.7	88.1	90.5	98.8	139.2	388.5	890.6	990.4	1331.6	1375.8
77.5°	70.1	68.4	69.8	70.8	72.9	77.7	134.0	475.2	576.3	874.0	1063.9
80°	45.6	44.9	47.7	48.7	50.8	53.9	71.5	161.3	195.8	318.0	338.4
82.5°	24.5	23.1	29.0	28.0	29.0	31.4	42.1	59.0	66.3	96.0	81.2
85°	7.6	7.6	7.9	9.3	11.4	11.1	18.3	29.0	32.1	41.1	30.4
87.5°	1.4	1.4	1.4	1.4	1.4	1.7	3.8	5.9	7.9	14.2	10.7
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: P630548
 CATALOG NUMBER: GWS-SA1D-830-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1	502.1
2.5°	509.0	505.9	507.6	508.7	508.3	507.6	504.2	503.5	501.8	499.0	498.3
5°	524.2	520.7	521.1	520.1	516.6	512.1	504.5	500.7	497.6	494.2	493.8
7.5°	548.0	544.2	543.2	538.4	528.7	518.3	506.2	499.3	494.2	489.7	489.0
10°	578.4	574.6	571.2	559.8	543.9	530.1	514.2	504.2	496.6	491.0	490.0
12.5°	612.3	609.1	600.5	583.9	564.9	548.7	532.5	520.1	509.0	500.7	499.7
15°	649.9	643.0	629.9	608.5	590.5	577.4	557.7	540.8	523.2	512.1	509.7
17.5°	676.1	670.3	654.7	634.0	619.9	608.5	585.3	561.1	537.3	521.1	517.6
20°	694.8	688.6	671.0	655.8	651.3	641.6	614.7	586.7	559.1	539.0	534.6
22.5°	708.3	701.7	683.7	676.1	682.4	680.6	654.4	622.6	589.8	566.0	560.5
25°	721.0	714.8	698.9	701.7	718.3	723.4	695.1	658.2	620.9	592.9	586.4
27.5°	733.1	725.2	717.9	733.1	756.6	766.3	736.2	694.4	654.0	625.4	620.2
30°	751.8	742.4	741.4	763.5	800.8	809.1	775.9	734.2	694.1	665.1	658.5
32.5°	775.2	766.6	767.3	800.5	843.6	850.5	822.2	783.2	743.1	714.1	705.1
35°	807.0	796.3	802.2	842.9	886.4	899.2	876.4	844.0	804.9	775.2	765.2
37.5°	850.9	835.3	847.4	890.2	934.1	953.1	935.5	911.3	872.6	842.6	833.3
40°	906.8	894.0	898.9	946.2	991.4	1014.2	1003.2	979.3	941.0	909.6	898.9
42.5°	973.1	960.3	958.6	1009.0	1054.3	1088.8	1078.1	1056.3	1016.6	980.7	970.4
45°	1038.0	1026.3	1028.7	1080.2	1130.9	1168.6	1157.9	1132.3	1089.1	1047.7	1039.4
47.5°	1105.7	1096.0	1098.1	1152.7	1208.6	1246.3	1232.8	1201.7	1151.3	1107.1	1097.1
50°	1175.1	1164.1	1167.2	1224.5	1284.9	1320.5	1299.8	1253.9	1198.3	1155.1	1146.5
52.5°	1244.2	1231.1	1239.0	1293.2	1355.7	1384.0	1345.7	1290.1	1236.2	1193.4	1183.8
55°	1323.6	1309.8	1301.2	1359.2	1421.0	1432.7	1380.2	1315.3	1251.4	1202.8	1196.9
57.5°	1396.1	1384.4	1368.2	1426.2	1471.8	1463.1	1406.8	1308.4	1214.5	1152.0	1143.7
60°	1461.1	1451.0	1436.9	1486.3	1507.0	1487.6	1385.4	1226.6	1123.3	1058.1	1054.3
62.5°	1520.8	1510.1	1497.0	1539.1	1536.3	1491.4	1288.0	1100.9	962.8	892.7	886.4
65°	1568.1	1558.4	1554.6	1587.8	1583.3	1417.2	1136.4	895.1	703.4	624.3	621.9
67.5°	1581.6	1577.8	1598.1	1654.4	1584.3	1268.0	891.3	593.6	377.8	302.8	298.4
70°	1531.2	1530.8	1589.2	1669.6	1440.7	968.6	525.9	267.6	189.9	168.5	165.8
72.5°	1465.5	1464.5	1510.8	1440.3	1068.4	530.1	221.4	143.3	118.8	112.9	112.9
75°	1357.8	1355.0	1389.9	1095.7	600.9	199.6	117.4	98.4	93.2	92.2	92.2
77.5°	1106.8	1083.6	1028.7	677.2	209.6	98.1	77.7	77.4	74.2	73.9	73.9
80°	364.0	364.0	423.0	258.3	92.5	60.4	54.9	57.7	54.6	52.5	52.1
82.5°	59.4	81.8	116.4	73.9	50.1	37.6	33.8	35.9	37.6	30.0	30.0
85°	23.5	30.7	44.9	34.5	23.1	15.2	16.2	18.0	15.9	13.8	13.5
87.5°	9.0	11.1	15.9	8.3	4.8	2.8	1.7	1.7	1.4	1.4	1.4
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)