

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: P630047

Luminaire Tested: GWS-SA1C-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-830-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2875.7 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

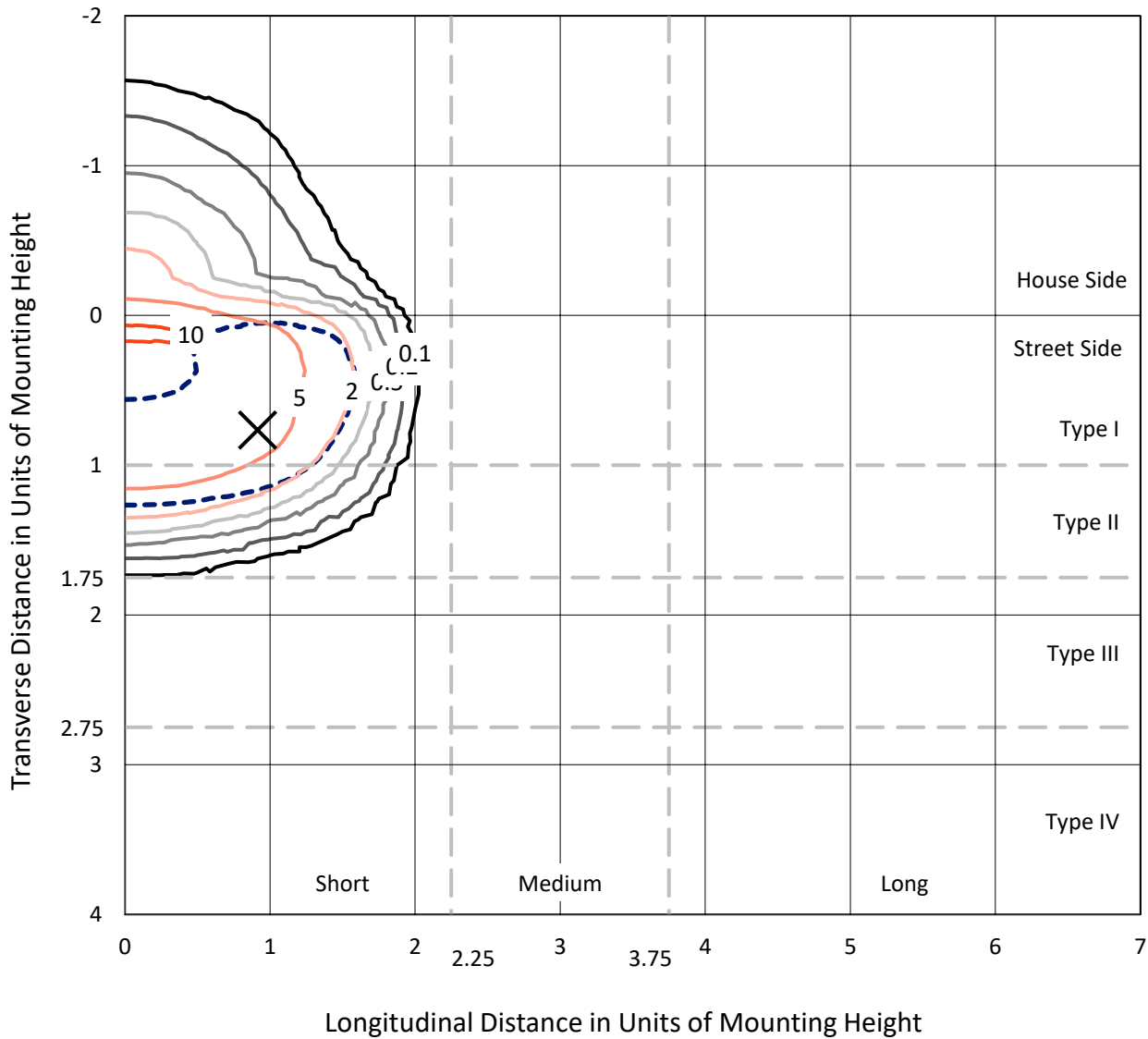
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630047
 CATALOG NUMBER: GWS-SA1C-830-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

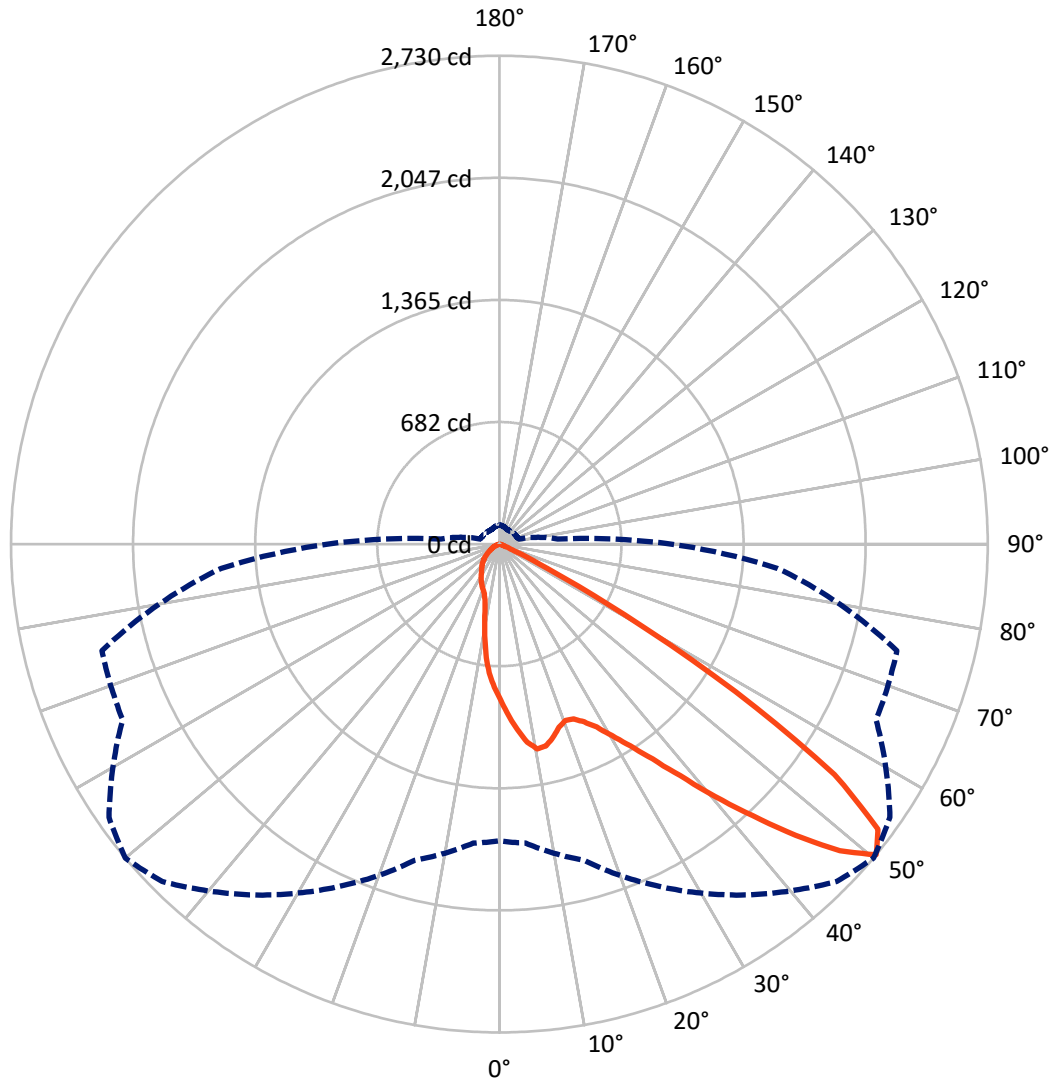
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P630047
CATALOG NUMBER: GWS-SA1C-830-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P630047
 CATALOG NUMBER: GWS-SA1C-830-U-AFL-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	369.5	0.0	369.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2506.2	0.0	2506.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	2875.7	0.0	2875.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	2.8
10°-20°	208.5	7.3
20°-30°	344.1	12.0
30°-40°	567.9	19.7
40°-50°	898.5	31.2
50°-60°	680.3	23.7
60°-70°	85.1	3.0
70°-80°	9.6	0.3
80°-90°	0.7	0.0
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°	2875.7	100.0
0°-180°	2875.7	100.0

Coefficient of Utilization



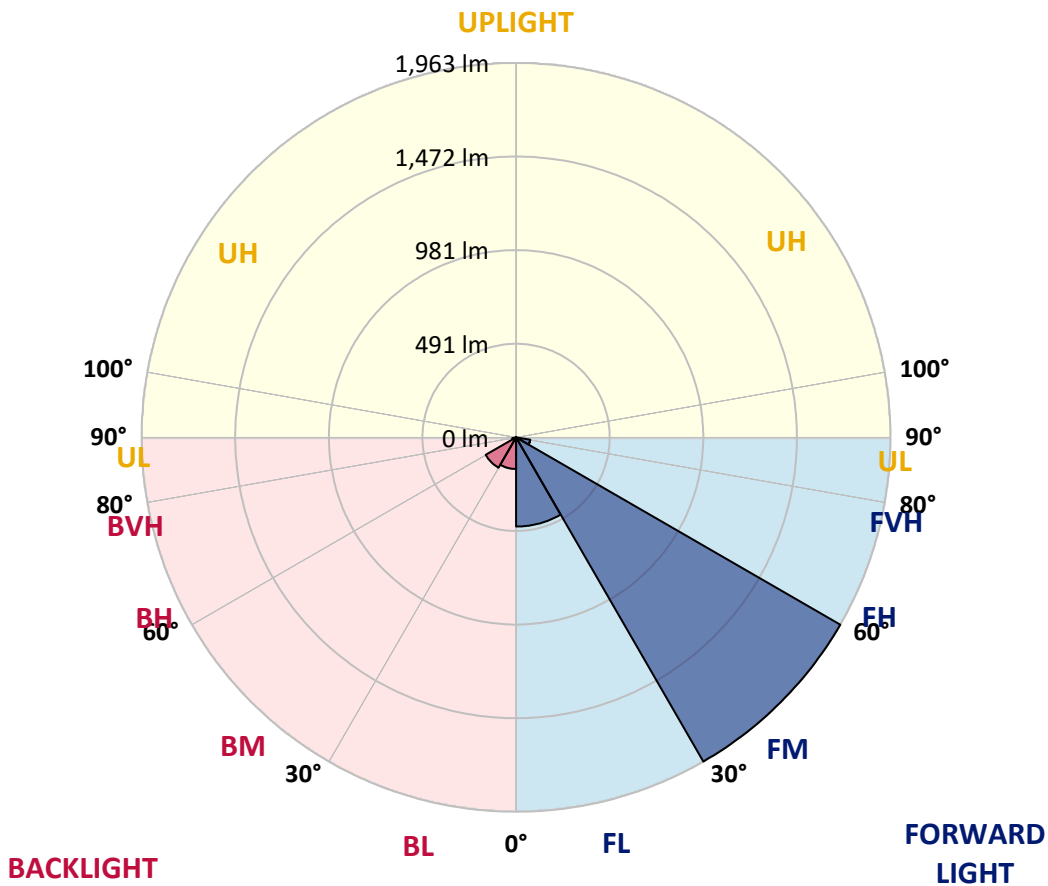
REPORT NUMBER: P630047

CATALOG NUMBER: GWS-SA1C-830-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.6	16.3			
FM (30°-60°)	1963.0	68.3			
FH (60°-80°)	75.3	2.6			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	165.8	5.8	B1/500		
BM (30°-60°)	183.8	6.4	B0/220		
BH (60°-80°)	19.5	0.7	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





REPORT NUMBER: P630047

CATALOG NUMBER: GWS-SA1C-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2
2.5°	992.8	1000.7	998.5	988.1	976.9	968.9	956.6	952.8	924.9	905.4	884.9
5°	1112.6	1115.1	1112.4	1099.8	1080.1	1061.2	1040.9	1029.2	982.3	940.2	897.2
7.5°	1141.4	1138.4	1143.6	1149.9	1147.1	1138.9	1117.6	1104.7	1048.9	980.2	915.0
10°	1051.6	1044.8	1064.2	1096.8	1131.0	1169.6	1164.1	1165.2	1113.7	1030.5	938.3
12.5°	932.5	929.8	944.3	982.1	1049.1	1136.7	1157.8	1193.1	1173.1	1085.0	964.8
15°	880.3	881.6	890.4	914.2	962.4	1071.3	1121.9	1185.7	1226.2	1137.8	994.1
17.5°	888.2	893.1	892.8	900.8	930.1	1017.4	1076.5	1162.5	1267.3	1198.6	1027.8
20°	942.1	947.0	939.7	933.6	943.5	1003.7	1052.7	1138.9	1294.9	1259.9	1063.4
22.5°	1022.9	1028.6	1011.1	993.8	987.6	1026.1	1061.7	1129.3	1316.0	1316.0	1095.1
25°	1120.6	1128.5	1101.4	1070.8	1053.2	1073.5	1100.3	1151.0	1337.6	1366.4	1116.7
27.5°	1229.8	1230.1	1206.8	1172.3	1139.5	1141.9	1158.1	1199.7	1361.4	1420.6	1133.7
30°	1352.7	1353.5	1322.6	1281.2	1239.9	1228.7	1242.4	1273.9	1411.0	1488.7	1157.3
32.5°	1511.4	1515.3	1470.9	1410.2	1356.5	1335.4	1343.4	1376.5	1489.8	1574.1	1192.6
35°	1726.0	1730.1	1664.7	1584.5	1499.1	1467.4	1475.3	1508.7	1603.9	1695.4	1248.9
37.5°	1937.9	1943.3	1877.1	1802.4	1685.2	1632.7	1640.9	1672.6	1775.3	1862.9	1339.3
40°	2084.3	2091.7	2071.2	2020.8	1912.1	1843.2	1853.0	1864.5	1963.9	2063.2	1456.4
42.5°	2161.5	2171.9	2180.7	2206.4	2149.2	2091.4	2074.7	2075.6	2155.7	2267.4	1578.2
45°	2166.2	2176.3	2221.2	2320.5	2364.0	2352.0	2321.6	2301.1	2302.2	2403.5	1654.3
47.5°	2015.6	2034.5	2118.5	2313.1	2476.8	2576.7	2561.4	2512.7	2363.8	2412.5	1646.1
50°	1659.0	1677.6	1830.3	2110.3	2394.7	2666.5	2729.7	2664.3	2323.5	2300.0	1561.5
52.5°	1204.9	1206.8	1305.9	1633.0	2061.9	2500.9	2649.8	2643.5	2262.2	2163.7	1446.0
55°	572.3	565.5	676.9	921.6	1426.0	2022.7	2273.7	2344.9	2175.2	2065.2	1356.5
57.5°	166.7	170.0	219.5	359.7	713.3	1292.7	1557.1	1689.6	1785.4	1697.8	1052.1
60°	74.7	75.0	83.5	109.5	237.6	601.3	805.0	968.9	1067.5	989.2	522.0
62.5°	54.2	54.5	57.8	61.9	80.7	203.6	301.9	402.4	409.7	268.2	132.2
65°	45.2	45.2	45.7	45.7	48.4	72.8	91.7	118.2	99.6	73.9	51.7
67.5°	36.4	36.7	37.2	37.2	36.4	36.4	39.4	43.2	46.3	57.2	47.6
70°	28.5	28.2	28.2	28.5	27.6	23.5	25.5	29.0	31.8	44.6	41.3
72.5°	22.2	22.4	22.2	21.1	19.2	14.0	15.1	18.9	20.3	27.9	27.9
75°	16.7	17.0	15.9	12.0	7.9	4.4	5.7	9.3	11.8	13.7	10.1
77.5°	2.2	2.2	1.6	1.6	1.4	1.6	1.6	2.2	3.3	3.3	2.5
80°	0.3	0.3	0.3	0.5	0.8	1.1	1.1	1.1	1.1	1.4	1.4
82.5°	0.3	0.3	0.3	0.3	0.8	0.8	1.1	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.3	0.5	0.8	0.8	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.3	0.5	0.8	0.8	0.8	1.1	1.1	1.1
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: P630047
 CATALOG NUMBER: GWS-SA1C-830-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2
2.5°	872.6	856.7	837.6	824.4	805.8	793.5	776.0	764.2	754.1	746.1	750.5
5°	872.9	847.7	808.5	775.2	738.7	705.4	669.5	641.3	615.9	604.4	610.6
7.5°	878.3	842.2	782.3	722.9	653.1	584.1	519.5	467.0	440.9	428.6	432.5
10°	889.0	839.7	753.0	654.4	541.1	447.0	384.3	348.7	334.2	326.5	327.9
12.5°	898.9	838.1	714.9	564.4	427.0	346.8	314.2	309.3	312.3	312.6	312.3
15°	912.3	835.1	667.9	471.9	341.6	299.7	300.5	307.7	314.8	317.0	316.4
17.5°	926.5	830.4	607.1	383.2	289.9	286.0	295.6	305.2	312.3	313.4	313.7
20°	941.3	820.9	537.8	312.9	265.8	275.6	286.3	293.4	298.6	300.3	300.8
22.5°	948.1	800.6	457.9	262.5	249.6	262.8	270.7	280.0	281.6	275.6	276.7
25°	944.6	766.4	379.9	228.5	233.5	246.6	258.4	253.7	246.9	242.5	243.9
27.5°	933.4	721.0	303.5	203.6	216.2	232.9	234.3	229.1	228.0	224.4	225.5
30°	921.3	668.7	244.2	183.7	198.7	216.2	212.1	214.0	214.3	210.2	211.6
32.5°	913.9	613.9	194.3	170.2	187.5	190.8	199.0	202.8	203.1	193.5	195.2
35°	916.4	560.0	164.5	159.3	177.1	176.3	187.8	190.0	174.1	160.9	162.3
37.5°	936.4	510.2	147.5	150.8	159.0	165.3	174.1	159.6	156.0	150.0	150.8
40°	973.6	467.8	137.4	145.6	146.7	156.8	143.4	145.3	145.6	141.8	142.6
42.5°	1017.1	432.5	131.4	142.6	139.9	141.5	128.1	131.9	136.0	134.4	134.7
45°	1039.0	398.0	126.2	132.2	133.0	117.4	114.4	118.5	123.7	124.5	124.8
47.5°	1019.6	365.1	120.7	117.1	122.6	107.0	103.5	104.8	110.9	114.1	114.7
50°	960.2	327.4	112.5	103.7	100.7	96.1	92.8	93.1	99.9	105.7	106.7
52.5°	876.7	287.9	99.1	87.9	81.0	84.6	85.4	83.8	90.1	95.8	96.9
55°	795.7	238.7	78.6	71.4	65.1	72.8	75.0	72.8	74.7	78.6	78.8
57.5°	560.3	134.9	60.2	59.1	53.9	62.4	66.0	62.7	59.4	61.9	62.4
60°	259.8	70.6	46.3	46.3	44.9	53.6	59.7	55.0	48.7	49.8	50.6
62.5°	81.3	44.6	33.9	32.0	36.7	45.7	50.6	46.0	38.6	38.6	39.7
65°	46.0	38.3	26.8	24.6	29.8	36.7	39.7	34.8	28.2	27.6	27.6
67.5°	42.7	36.4	23.8	20.0	21.1	23.5	24.6	21.3	19.4	19.2	19.4
70°	35.3	30.4	19.2	13.7	12.9	12.6	13.1	12.3	11.8	12.0	12.9
72.5°	21.9	18.3	12.0	8.2	7.1	6.8	6.8	6.8	6.6	6.6	6.6
75°	7.9	6.8	5.5	4.1	3.6	3.3	3.3	3.6	3.3	3.0	2.7
77.5°	2.5	2.2	2.2	2.2	1.9	1.6	1.4	1.4	1.1	0.8	0.8
80°	1.4	1.4	1.4	1.4	1.1	1.1	0.8	0.5	0.3	0.3	0.0
82.5°	1.4	1.4	1.4	1.1	1.1	1.1	0.8	0.5	0.3	0.0	0.0
85°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.5	0.3	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.5	0.3	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)