

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: P631618

Luminaire Tested: GWS-SA2B-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY 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: 4473.9 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

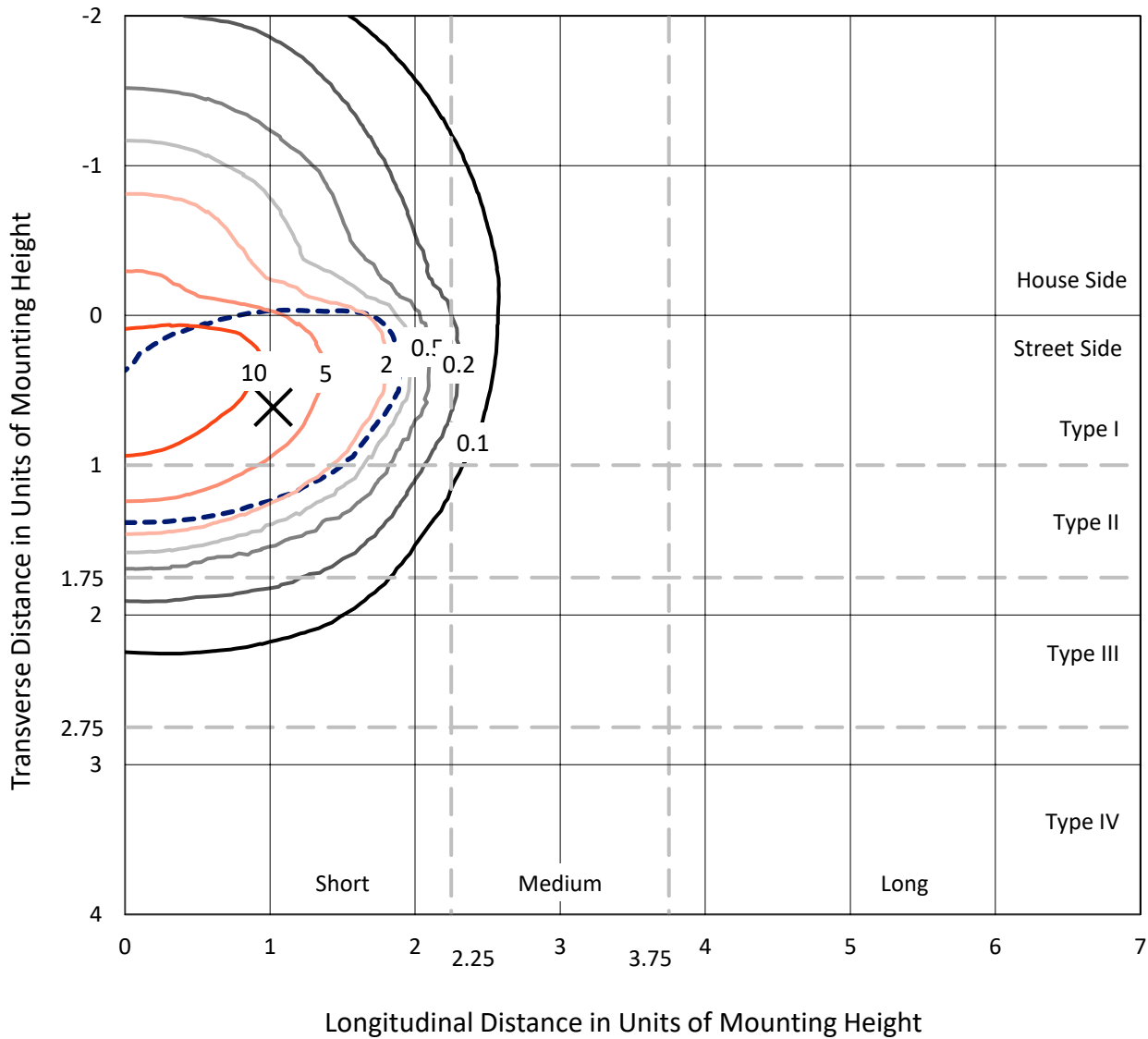
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631618
 CATALOG NUMBER: GWS-SA2B-722-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

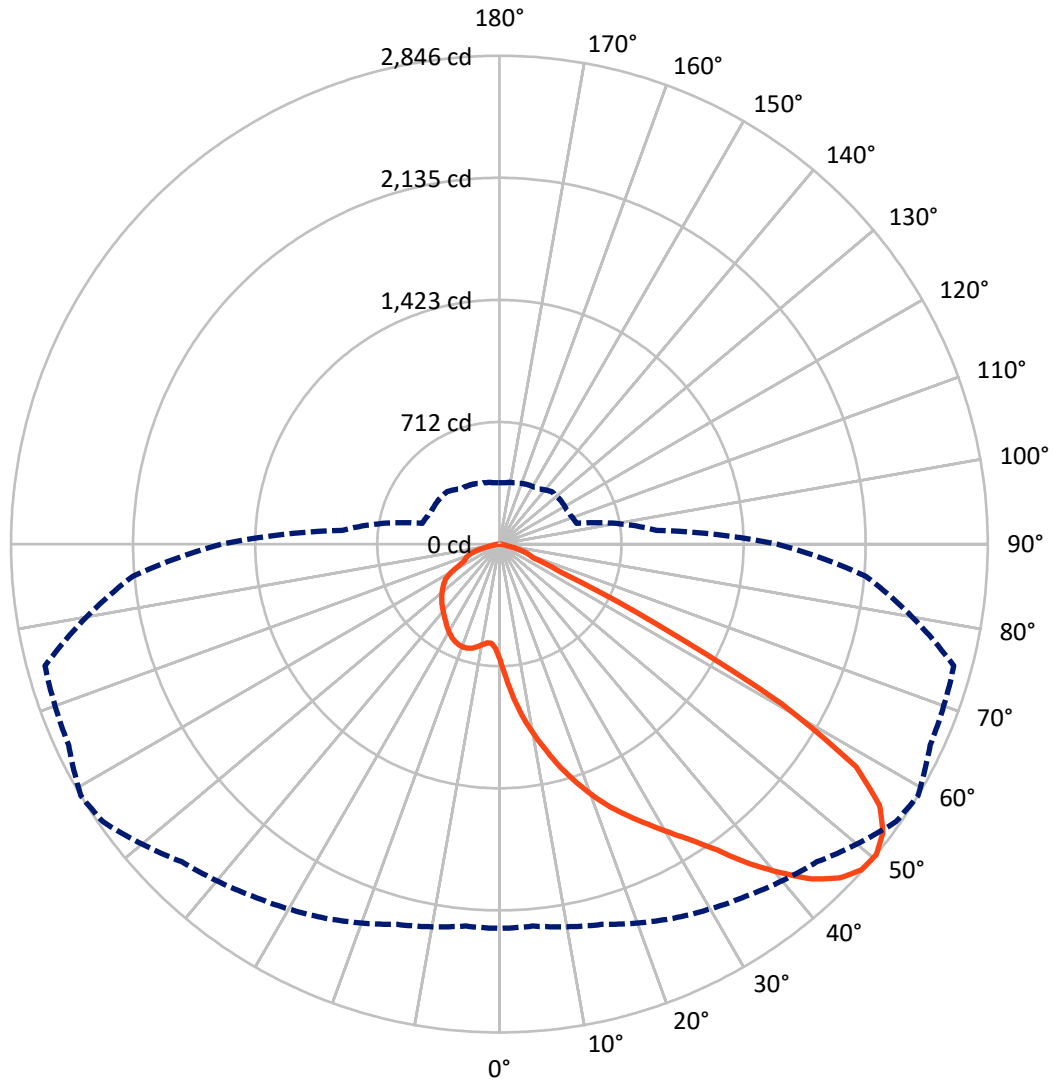
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

REPORT NUMBER: P631618
CATALOG NUMBER: GWS-SA2B-722-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P631618

CATALOG NUMBER: GWS-SA2B-722-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1029.1	0.0	1029.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	3444.8	0.0	3444.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	4473.9	0.0	4473.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	1.7
10°-20°	276.0	6.2
20°-30°	522.7	11.7
30°-40°	866.8	19.4
40°-50°	1184.1	26.5
50°-60°	1074.9	24.0
60°-70°	357.9	8.0
70°-80°	104.4	2.3
80°-90°	11.0	0.2
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°	4473.9	100.0
0°-180°	4473.9	100.0

Coefficient of Utilization



REPORT NUMBER: P631618

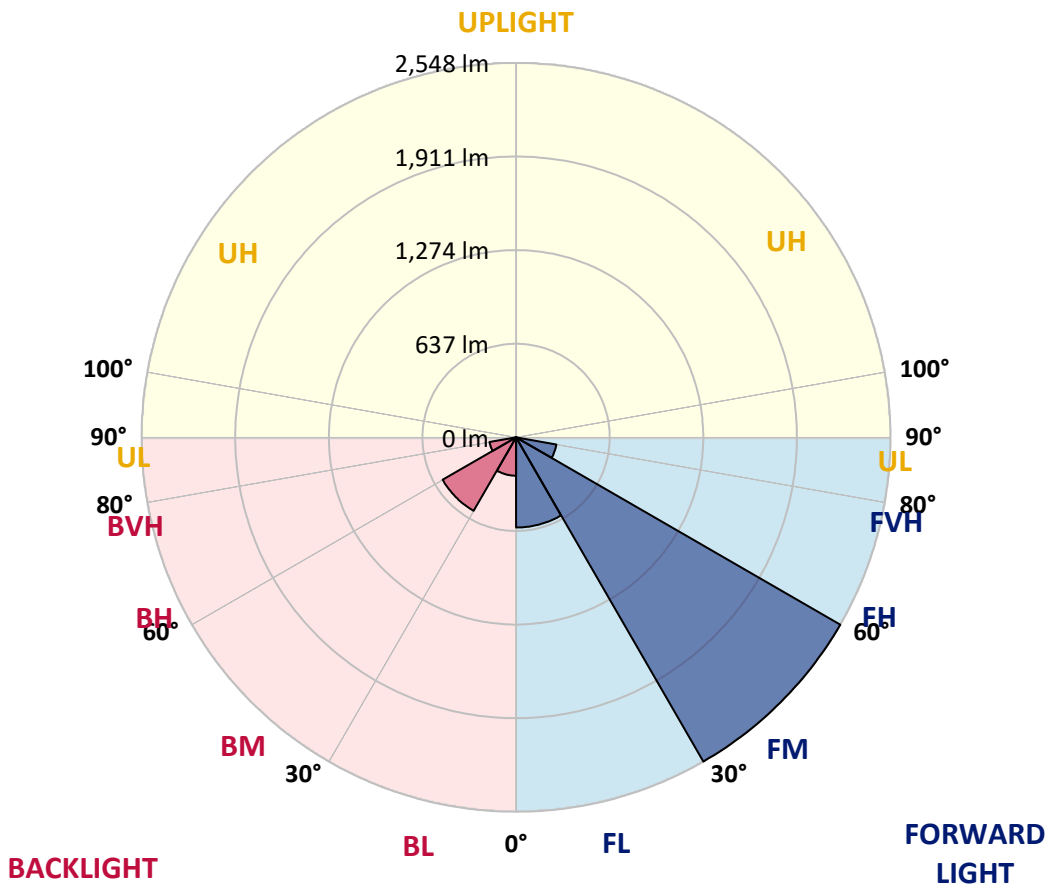
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.5	13.7			
FM (30°-60°)	2548.4	57.0			
FH (60°-80°)	278.7	6.2			G0/660
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	261.3	5.8	B1/500		
BM (30°-60°)	577.4	12.9	B1/1000		
BH (60°-80°)	183.7	4.1	B1/500		G1/500
BVH (80°-90°)	6.7	0.1			G0/10
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





REPORT NUMBER: P631618

CATALOG NUMBER: GWS-SA2B-722-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	878.3	884.8	874.6	875.3	849.8	838.2	805.4	786.1	773.3	737.6	705.2
5°	1055.4	1047.7	1039.7	1035.0	1012.7	981.4	940.6	908.1	878.3	808.3	740.9
7.5°	1164.0	1160.0	1154.5	1151.6	1129.7	1096.9	1056.1	1028.4	985.0	890.3	784.2
10°	1256.2	1251.4	1248.2	1250.3	1232.5	1211.3	1166.9	1135.2	1086.3	977.0	836.7
12.5°	1327.6	1330.1	1331.2	1342.9	1335.2	1322.5	1276.6	1243.0	1188.7	1068.5	898.3
15°	1384.1	1383.4	1396.1	1418.3	1430.7	1422.7	1385.9	1357.8	1291.5	1158.5	964.6
17.5°	1397.2	1397.9	1418.0	1457.0	1497.4	1517.1	1496.3	1462.8	1397.2	1247.4	1033.5
20°	1407.8	1409.2	1430.0	1474.5	1533.5	1588.5	1591.8	1567.7	1511.3	1343.6	1103.5
22.5°	1474.5	1477.7	1483.2	1511.3	1564.5	1634.1	1672.3	1667.2	1619.9	1444.6	1178.9
25°	1649.7	1639.9	1613.3	1605.3	1625.7	1682.2	1747.4	1757.2	1733.9	1555.7	1260.2
27.5°	1866.2	1855.6	1816.3	1774.7	1730.6	1750.3	1819.9	1849.4	1849.8	1678.2	1341.8
30°	2062.6	2054.3	2022.2	1962.8	1886.6	1858.2	1909.6	1949.3	1973.0	1819.6	1434.7
32.5°	2230.6	2223.0	2179.6	2131.1	2056.8	1999.6	2018.2	2056.4	2111.8	2002.5	1550.3
35°	2372.0	2364.4	2322.8	2274.0	2205.1	2170.9	2164.3	2190.5	2262.3	2193.5	1682.9
37.5°	2486.8	2479.2	2435.8	2389.9	2337.4	2339.6	2349.4	2362.2	2403.4	2397.9	1824.7
40°	2561.2	2553.2	2522.2	2489.4	2456.2	2482.5	2531.3	2516.0	2537.8	2563.0	1955.1
42.5°	2594.3	2584.1	2566.3	2559.0	2548.8	2589.6	2683.6	2668.3	2642.1	2673.0	2052.1
45°	2561.2	2552.4	2552.1	2574.3	2598.0	2650.5	2788.9	2776.5	2710.2	2726.3	2110.0
47.5°	2459.5	2451.8	2472.6	2530.9	2589.2	2665.8	2835.9	2838.1	2758.7	2748.5	2147.5
50°	2239.7	2234.6	2294.8	2405.2	2505.8	2618.0	2821.0	2846.1	2770.3	2741.6	2142.8
52.5°	1793.0	1816.7	1947.5	2131.9	2327.2	2534.2	2765.6	2798.4	2714.2	2696.0	2117.3
55°	1227.4	1238.3	1369.1	1638.4	1948.2	2352.7	2638.4	2689.1	2647.9	2688.4	2143.9
57.5°	635.6	644.3	747.4	986.5	1321.4	1859.3	2285.3	2451.5	2514.2	2727.0	2226.6
60°	260.9	268.2	310.9	426.4	666.5	1082.7	1644.6	1891.0	2038.2	2490.5	1977.4
62.5°	189.5	193.1	213.6	254.4	349.1	530.6	930.7	1021.5	1125.0	1560.8	1255.4
65°	159.6	163.6	180.0	204.8	254.7	325.4	397.6	399.8	440.6	635.9	465.4
67.5°	133.7	137.4	152.0	173.1	205.9	231.0	213.6	213.9	213.2	230.7	223.0
70°	104.2	107.1	121.7	144.3	161.4	148.3	166.9	184.8	177.1	184.0	194.6
72.5°	76.2	79.4	92.2	109.3	105.0	105.7	135.2	153.4	149.0	156.7	166.5
75°	55.0	57.2	63.8	54.7	57.6	69.6	95.1	105.0	109.3	115.9	124.6
77.5°	17.9	17.9	20.0	25.1	31.3	38.6	48.5	52.5	59.0	66.3	72.5
80°	9.1	9.5	11.3	13.8	17.5	22.2	28.4	30.2	33.5	37.5	40.1
82.5°	4.4	4.7	5.5	6.9	9.1	11.7	15.7	17.5	19.7	22.2	24.1
85°	1.1	1.1	1.5	2.2	2.9	4.4	5.8	6.9	8.7	10.6	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.5	1.8	2.2	2.9
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: P631618

CATALOG NUMBER: GWS-SA2B-722-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	690.6	670.2	643.9	621.7	601.3	585.6	572.1	565.6	559.4	555.0	556.5
5°	709.5	674.5	625.7	591.8	571.1	560.5	553.2	549.6	548.8	545.9	544.8
7.5°	737.2	687.3	622.1	587.8	574.0	568.5	564.5	562.3	563.4	560.5	559.4
10°	771.5	708.4	631.2	600.9	588.9	584.9	580.5	577.6	576.2	571.8	571.1
12.5°	814.1	734.7	647.6	617.7	605.7	598.7	592.9	587.8	584.5	579.1	577.6
15°	860.0	763.8	666.9	634.1	619.9	609.7	600.2	592.6	586.7	579.4	578.3
17.5°	910.0	794.4	682.9	645.4	627.2	613.7	599.8	588.5	580.5	571.1	570.0
20°	962.1	825.4	695.0	650.9	627.5	609.3	590.7	575.8	565.6	556.1	555.4
22.5°	1016.0	853.8	702.2	649.4	621.7	599.1	576.9	560.1	548.1	536.8	536.1
25°	1070.3	881.2	704.1	643.6	610.0	583.8	561.6	541.9	528.4	515.7	514.2
27.5°	1125.3	904.1	699.7	631.9	594.4	565.9	543.7	524.4	510.6	497.8	495.6
30°	1184.0	923.8	690.2	616.6	576.2	547.0	525.1	510.6	497.4	484.7	482.5
32.5°	1246.7	940.9	676.7	598.0	555.0	528.0	512.0	498.9	485.8	474.5	472.3
35°	1321.4	952.2	656.7	574.0	535.3	514.2	503.3	488.0	471.9	459.5	458.4
37.5°	1398.7	961.0	632.6	551.0	518.2	506.2	497.1	476.3	456.3	441.3	439.5
40°	1473.4	968.3	602.8	529.5	502.5	500.4	488.0	462.1	427.5	410.7	409.2
42.5°	1543.0	970.5	571.4	506.5	488.3	487.2	473.4	433.3	406.7	396.1	394.7
45°	1590.7	968.6	539.0	485.0	474.1	468.3	453.7	412.5	396.1	386.7	384.8
47.5°	1626.1	959.2	502.5	462.5	458.1	450.1	418.7	399.4	384.1	374.6	372.8
50°	1619.9	919.8	465.7	440.6	438.8	431.8	393.2	383.0	369.5	359.3	357.9
52.5°	1587.8	845.1	428.2	416.5	420.2	406.7	375.0	363.3	351.7	340.0	337.5
55°	1595.8	791.2	399.8	393.2	399.8	369.2	354.6	342.2	331.3	320.0	317.8
57.5°	1630.8	738.0	369.5	368.1	375.0	340.4	328.3	312.7	297.0	287.9	287.9
60°	1369.5	537.9	316.3	320.0	335.6	317.0	306.5	290.4	273.3	265.3	265.3
62.5°	809.7	337.5	262.4	258.4	268.2	279.9	285.7	272.6	252.2	241.6	242.0
65°	356.8	245.6	231.4	228.1	225.2	233.2	249.3	250.4	228.9	216.5	216.8
67.5°	219.7	222.3	216.5	213.9	211.4	209.9	208.5	209.2	203.3	192.1	191.7
70°	198.2	205.2	201.2	199.0	195.7	193.1	184.4	170.2	160.3	157.4	160.7
72.5°	170.6	180.0	177.8	176.7	172.7	166.5	154.9	141.0	129.4	122.1	123.5
75°	128.6	136.3	137.4	137.8	133.4	127.5	115.5	103.9	93.7	86.0	87.8
77.5°	74.0	78.4	79.4	80.5	77.3	75.1	67.1	58.7	53.2	45.2	47.4
80°	41.2	43.0	43.0	43.4	41.5	39.0	33.5	28.8	26.2	22.6	23.0
82.5°	24.8	25.5	25.9	26.2	25.1	22.6	18.6	15.3	13.8	12.0	11.7
85°	12.0	12.8	12.8	13.1	11.3	9.8	7.7	5.8	5.1	3.6	4.0
87.5°	2.9	3.3	3.3	2.9	2.6	1.8	1.1	0.4	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)