

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: P630103

Luminaire Tested: GWS-SA1D-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4052.1 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

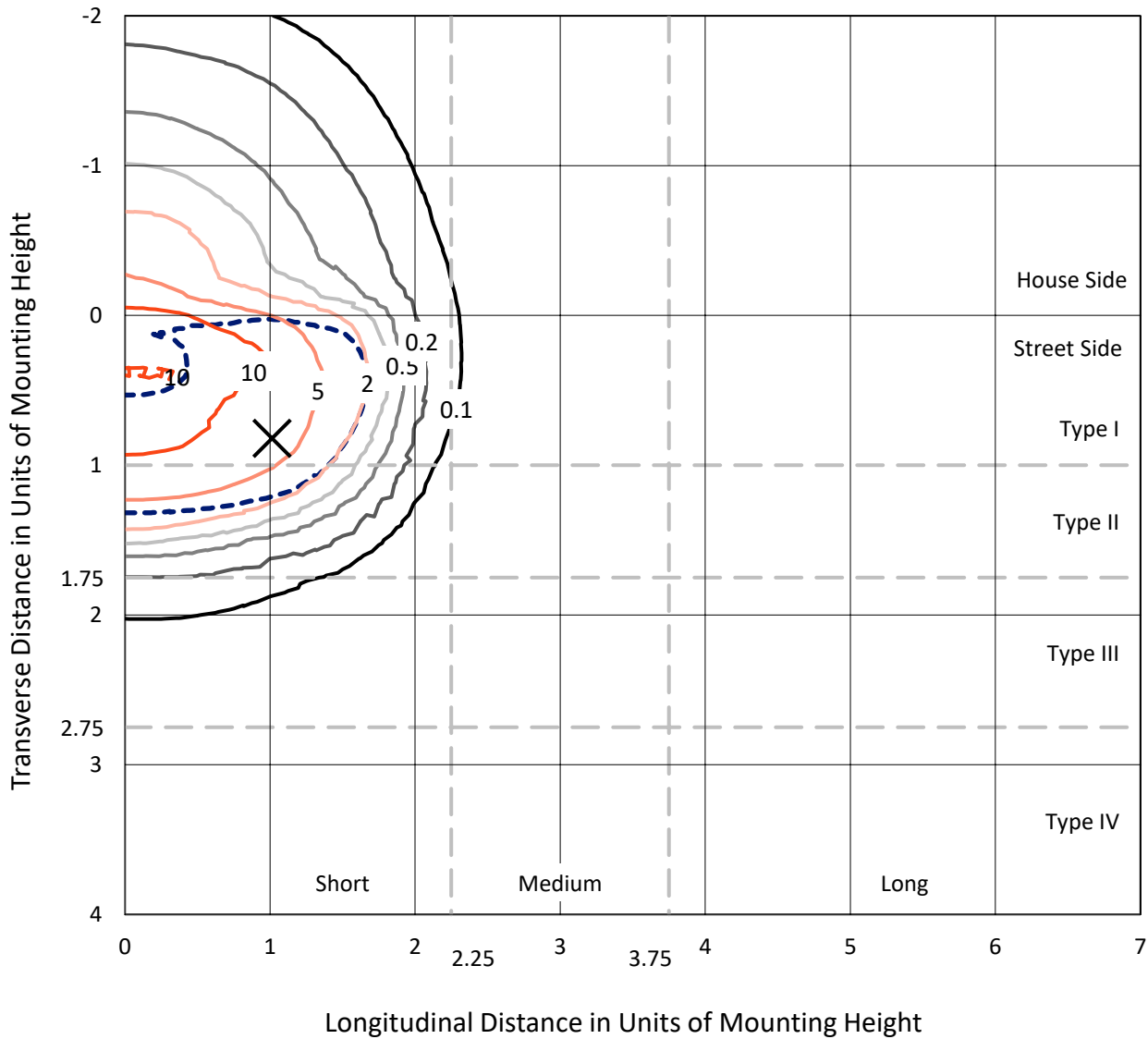
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

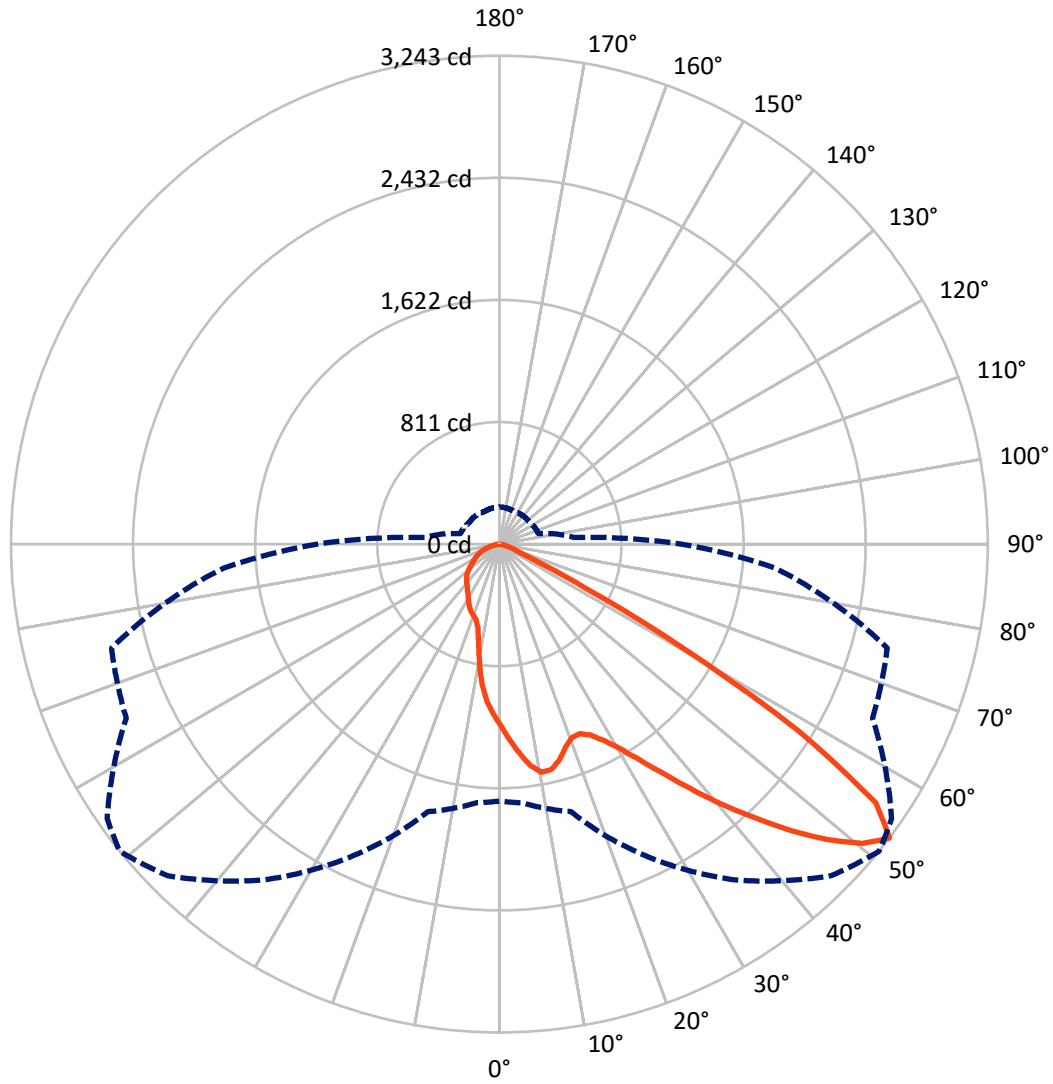
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	789.5	0.0	789.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	3262.6	0.0	3262.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	4052.1	0.0	4052.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	2.8
10°-20°	292.5	7.2
20°-30°	475.6	11.7
30°-40°	753.8	18.6
40°-50°	1136.9	28.1
50°-60°	983.5	24.3
60°-70°	223.0	5.5
70°-80°	65.7	1.6
80°-90°	8.5	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°	4052.1	100.0
0°-180°	4052.1	100.0

Coefficient of Utilization



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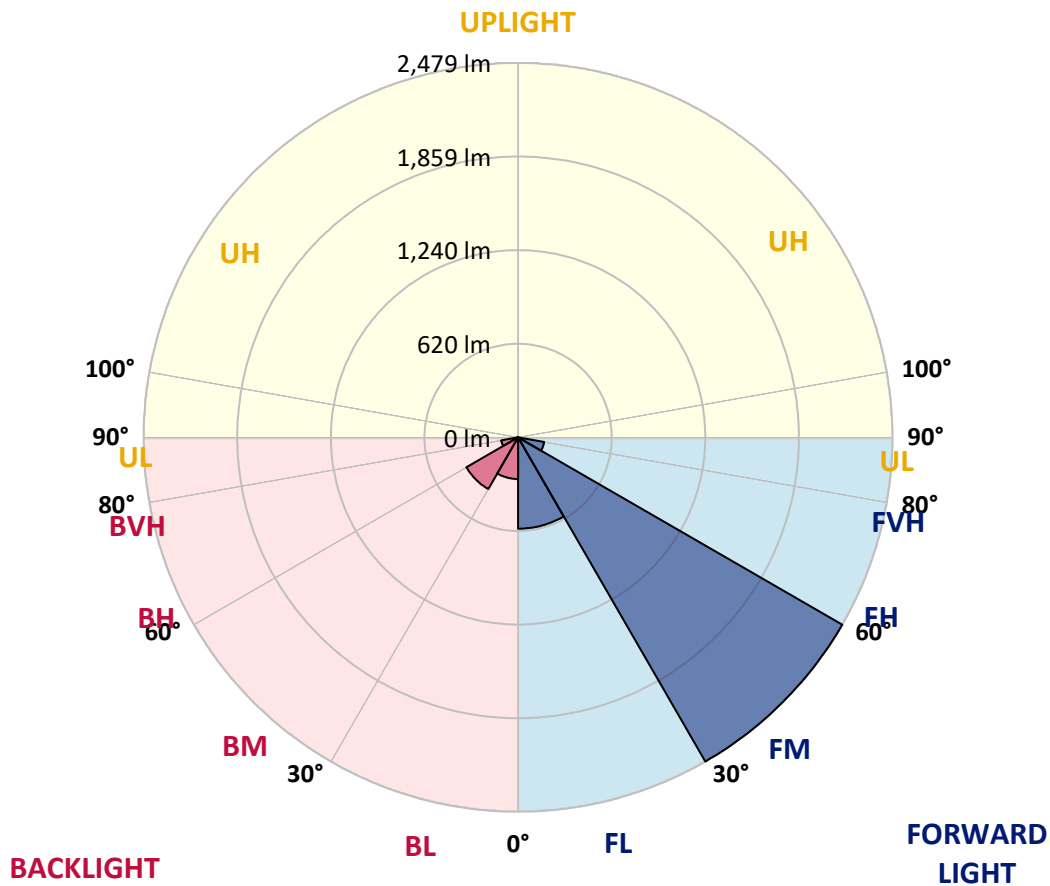
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.8	14.9			
FM (30°-60°)	2479.1	61.2			
FH (60°-80°)	175.5	4.3			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	276.0	6.8	B1/500		
BM (30°-60°)	395.0	9.7	B1/1000		
BH (60°-80°)	113.2	2.8	B1/500		G1/500
BVH (80°-90°)	5.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5
2.5°	1344.5	1352.2	1340.4	1335.9	1328.5	1315.7	1301.0	1296.8	1265.1	1244.3	1220.9
5°	1479.6	1483.8	1474.2	1464.6	1446.3	1423.6	1395.1	1389.0	1331.4	1283.7	1234.0
7.5°	1509.7	1508.1	1516.5	1521.9	1519.7	1510.7	1485.4	1473.6	1404.7	1329.1	1255.8
10°	1390.6	1381.7	1412.4	1448.9	1492.8	1543.4	1540.5	1539.5	1479.6	1390.3	1283.7
12.5°	1232.8	1228.3	1253.3	1299.1	1382.0	1494.1	1536.0	1568.7	1547.2	1448.6	1314.7
15°	1142.5	1140.9	1157.8	1190.8	1256.8	1398.3	1488.0	1552.6	1605.2	1511.0	1347.7
17.5°	1126.1	1127.1	1132.9	1151.8	1199.1	1315.7	1419.4	1509.7	1650.3	1579.5	1389.0
20°	1173.9	1180.3	1170.3	1173.2	1198.8	1285.9	1372.7	1466.5	1679.1	1648.4	1433.5
22.5°	1279.8	1277.6	1255.8	1243.0	1243.3	1304.2	1367.6	1446.3	1698.0	1715.3	1473.9
25°	1399.9	1397.4	1371.4	1342.9	1325.0	1353.8	1404.4	1467.8	1715.0	1776.5	1506.2
27.5°	1541.8	1533.8	1504.9	1468.4	1428.7	1441.2	1475.5	1525.8	1741.2	1836.7	1527.7
30°	1679.1	1688.4	1647.1	1603.9	1561.9	1554.2	1574.1	1619.6	1794.7	1907.1	1553.3
32.5°	1861.3	1858.1	1812.3	1756.0	1696.1	1690.3	1706.0	1747.6	1890.8	2004.4	1592.4
35°	2081.9	2082.6	2017.6	1941.4	1856.2	1840.8	1867.1	1907.4	2033.9	2136.4	1654.2
37.5°	2311.2	2310.2	2253.6	2167.1	2050.9	2029.1	2059.2	2089.3	2212.9	2316.0	1750.2
40°	2471.9	2478.3	2451.8	2406.3	2296.2	2243.0	2269.6	2290.4	2407.6	2527.3	1876.7
42.5°	2563.2	2572.8	2578.6	2605.8	2547.8	2491.2	2481.5	2492.4	2581.4	2723.6	1995.5
45°	2582.7	2595.5	2637.5	2738.3	2760.8	2744.8	2713.4	2687.1	2711.1	2862.9	2073.3
47.5°	2496.6	2519.0	2608.7	2785.1	2916.1	2966.3	2931.4	2891.4	2786.1	2898.8	2065.3
50°	2155.3	2181.5	2383.6	2689.7	2938.2	3121.3	3124.5	3065.3	2777.1	2795.3	1964.7
52.5°	1706.3	1724.3	1839.9	2280.1	2721.4	3114.9	3243.0	3179.6	2733.9	2666.0	1838.9
55°	1019.8	1048.7	1156.6	1504.3	2120.0	2760.8	3033.6	3064.3	2712.7	2557.4	1753.1
57.5°	344.2	358.3	461.4	664.4	1249.4	2021.4	2343.9	2468.7	2462.7	2391.6	1585.6
60°	163.9	167.1	188.0	252.0	500.2	1056.3	1387.4	1531.5	1662.8	1675.9	986.5
62.5°	124.9	126.8	137.4	151.1	201.1	445.1	635.9	746.1	797.0	683.9	359.3
65°	104.4	106.0	114.0	122.6	136.7	192.8	244.0	281.5	253.6	197.6	171.3
67.5°	87.1	88.4	94.5	103.7	113.4	129.0	135.4	139.3	146.0	163.9	157.5
70°	68.2	69.5	75.9	83.9	93.2	97.0	103.1	106.9	120.4	143.4	142.8
72.5°	52.5	54.1	57.6	62.8	70.4	74.3	81.0	85.5	93.2	111.7	119.4
75°	38.4	39.4	42.6	44.2	45.1	44.2	50.9	56.0	66.3	73.3	75.2
77.5°	15.7	17.6	17.0	17.0	20.2	24.3	27.9	31.1	38.1	42.3	42.6
80°	6.4	7.0	8.3	9.3	11.2	14.4	16.7	17.9	21.1	23.7	25.6
82.5°	3.8	4.2	4.8	5.1	6.4	8.3	9.6	10.6	13.1	15.7	16.7
85°	1.9	1.9	2.2	2.6	3.2	3.8	4.5	5.1	6.7	8.3	9.3
87.5°	0.3	0.3	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.6	3.2
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°	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5
2.5°	1207.2	1189.9	1169.7	1153.7	1135.1	1121.3	1101.8	1089.6	1078.1	1068.5	1061.5
5°	1208.4	1179.3	1137.3	1100.2	1061.8	1025.3	987.8	957.4	930.2	907.4	905.5
7.5°	1215.8	1173.9	1108.2	1043.2	968.3	895.9	823.6	764.6	719.8	696.4	691.6
10°	1228.3	1173.2	1078.4	974.7	846.9	730.4	644.6	599.7	573.8	564.5	561.3
12.5°	1241.4	1171.6	1040.3	878.0	700.6	598.5	551.4	545.9	550.7	551.4	551.1
15°	1257.4	1170.6	992.3	764.6	593.7	537.3	540.5	552.0	563.2	565.8	565.8
17.5°	1277.0	1168.4	927.0	653.8	526.7	525.4	542.4	557.8	568.4	570.3	570.3
20°	1297.4	1162.6	846.6	563.6	499.5	518.1	536.3	548.2	555.5	558.1	558.4
22.5°	1311.5	1147.3	754.1	496.6	482.5	504.0	517.1	529.3	529.3	522.9	521.0
25°	1314.4	1114.3	653.8	450.8	462.4	482.2	495.7	488.6	475.5	470.4	470.1
27.5°	1303.9	1066.3	554.9	418.2	438.0	457.9	455.6	445.4	439.6	434.5	436.4
30°	1291.0	1008.6	469.1	391.3	409.9	429.4	421.7	418.2	414.0	408.3	409.5
32.5°	1282.4	944.3	403.1	370.5	391.0	394.2	399.6	399.3	395.4	384.6	383.9
35°	1285.0	879.3	358.9	353.5	375.3	374.0	384.2	382.3	355.7	340.7	339.7
37.5°	1305.5	816.8	333.0	340.1	350.3	358.3	367.3	344.2	334.9	325.3	326.0
40°	1344.5	758.9	318.9	332.7	335.2	347.1	326.3	326.0	321.8	313.2	312.8
42.5°	1388.7	709.9	309.3	329.2	325.6	327.9	305.8	308.4	308.0	302.6	301.0
45°	1415.6	664.7	301.6	316.0	317.0	294.6	287.9	290.7	292.3	289.5	289.1
47.5°	1387.7	612.9	293.6	295.9	304.2	279.5	271.2	271.5	274.4	274.7	273.5
50°	1309.6	554.9	284.0	278.6	273.1	263.8	256.2	254.6	257.4	260.3	261.3
52.5°	1208.8	499.5	268.0	259.7	246.9	246.9	243.4	238.2	242.1	245.9	247.2
55°	1134.8	458.5	245.3	236.0	221.9	226.7	226.1	221.6	226.7	229.6	230.5
57.5°	983.3	368.5	215.8	212.9	201.1	206.8	208.1	202.4	199.8	200.4	201.4
60°	583.7	237.9	194.7	194.4	183.8	190.5	194.4	188.6	180.9	181.9	183.2
62.5°	261.9	181.9	168.1	166.8	166.5	175.1	179.3	173.9	163.0	163.9	165.2
65°	164.9	157.2	146.0	146.0	151.1	158.5	161.7	157.2	144.7	143.1	144.4
67.5°	153.1	146.3	134.8	132.6	135.1	141.2	141.5	132.9	125.5	124.2	124.2
70°	137.4	132.2	121.0	116.6	115.6	115.3	114.3	112.1	107.3	106.0	106.6
72.5°	113.7	110.1	103.1	98.3	95.7	95.4	91.6	89.7	85.5	84.9	84.5
75°	75.2	76.2	76.2	75.6	73.3	72.4	68.2	66.3	61.5	59.6	59.2
77.5°	44.5	45.5	46.7	47.1	46.7	46.7	42.9	40.7	35.9	33.3	32.7
80°	27.2	27.9	28.5	29.5	28.2	27.2	23.7	21.5	19.2	17.6	17.3
82.5°	17.6	18.3	18.6	19.2	18.6	17.3	14.4	13.1	11.5	10.2	9.9
85°	9.9	10.2	10.9	10.9	9.9	9.0	7.4	6.4	5.4	4.8	4.8
87.5°	3.5	3.5	3.5	3.8	3.2	2.9	1.9	1.3	1.0	1.0	1.0
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)