

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: P630488

Luminaire Tested: GWS-SA1D-827-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630488
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-827-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) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4043.9 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - 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

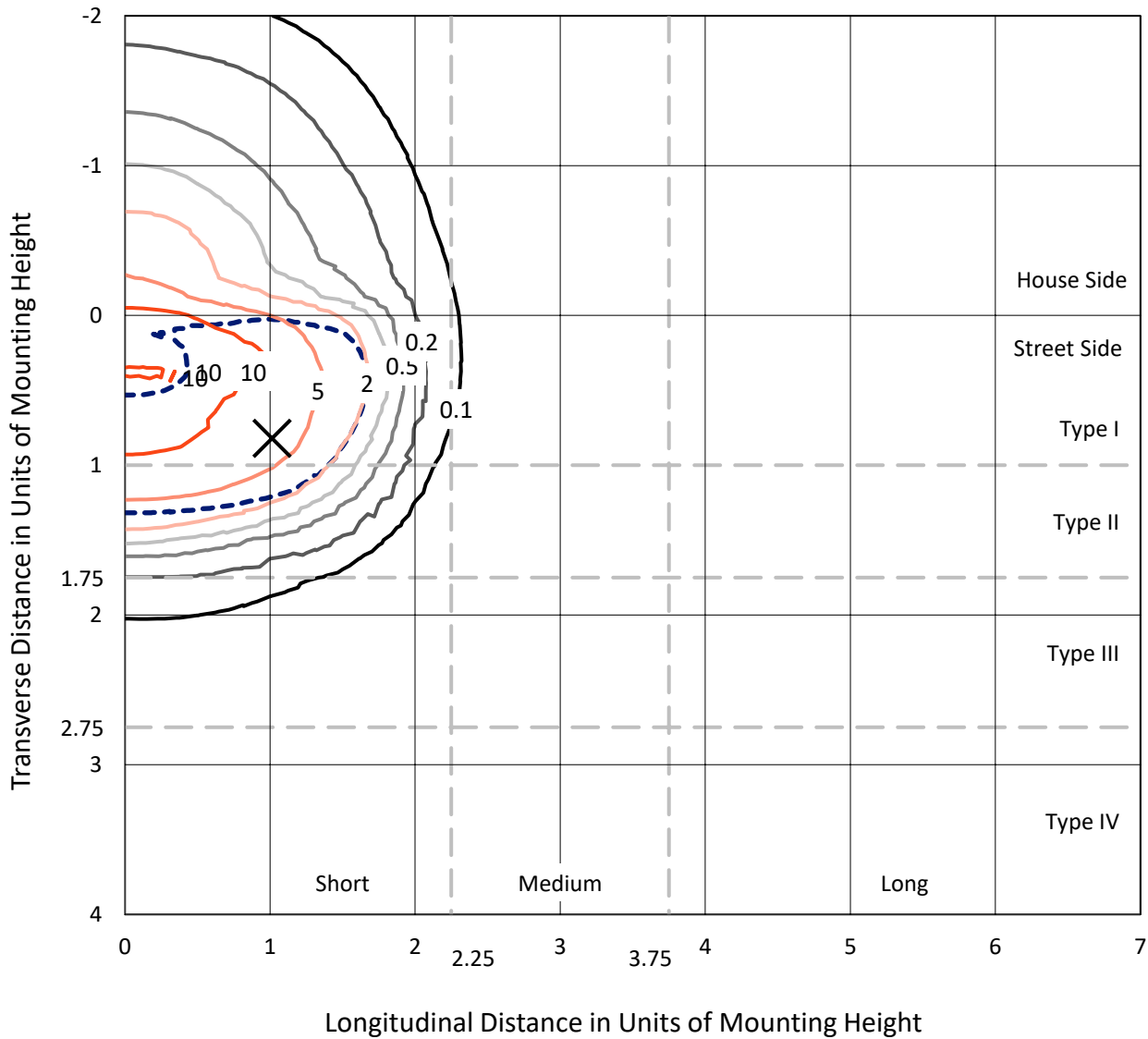


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Iso-Footcandle Lines of Horizontal Illumination

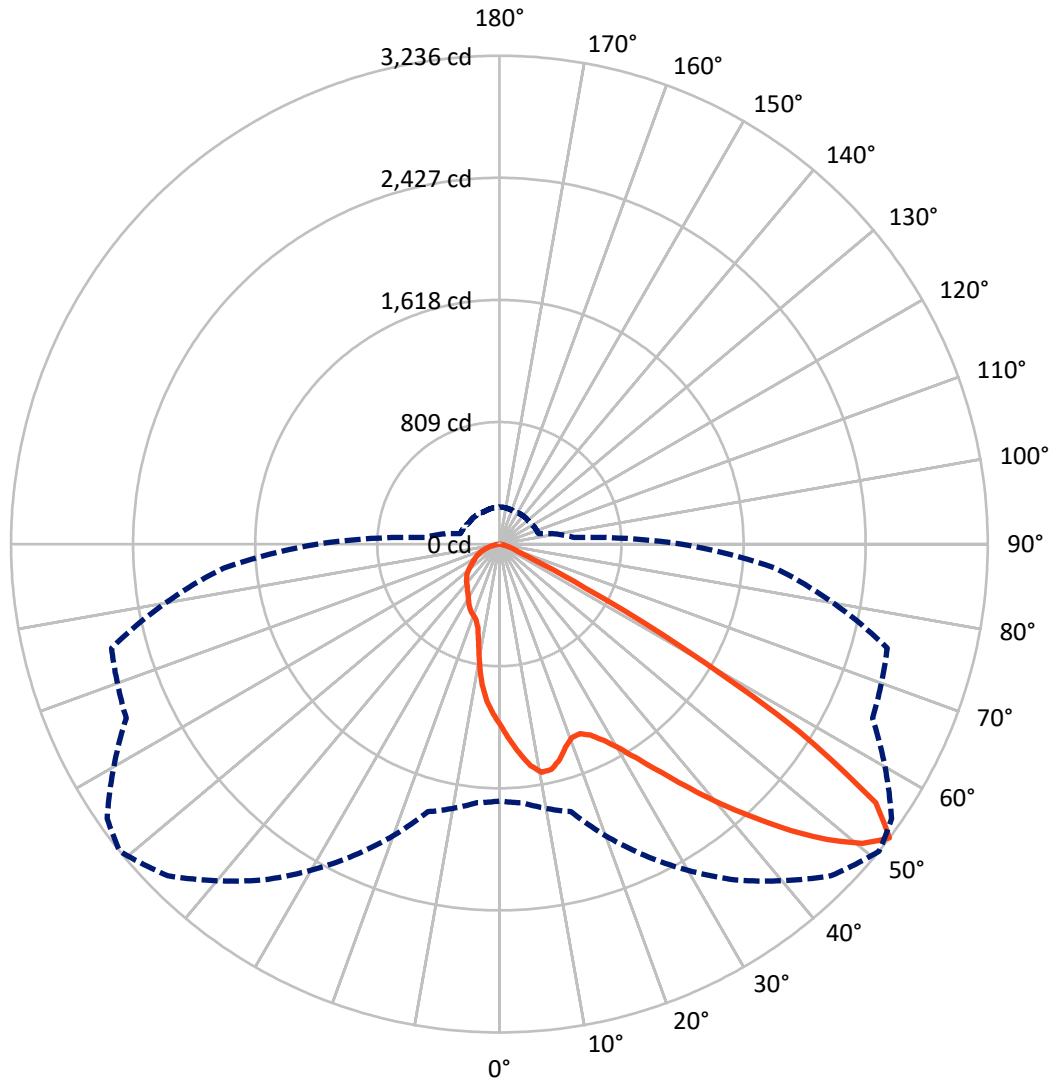
✕ Max cd
 - - - 1/2 Max cd



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	787.9	0.0	787.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	3256.0	0.0	3256.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	4043.9	0.0	4043.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	2.8
10°-20°	291.9	7.2
20°-30°	474.7	11.7
30°-40°	752.3	18.6
40°-50°	1134.6	28.1
50°-60°	981.5	24.3
60°-70°	222.5	5.5
70°-80°	65.6	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°	4043.9	100.0
0°-180°	4043.9	100.0

Coefficient of Utilization



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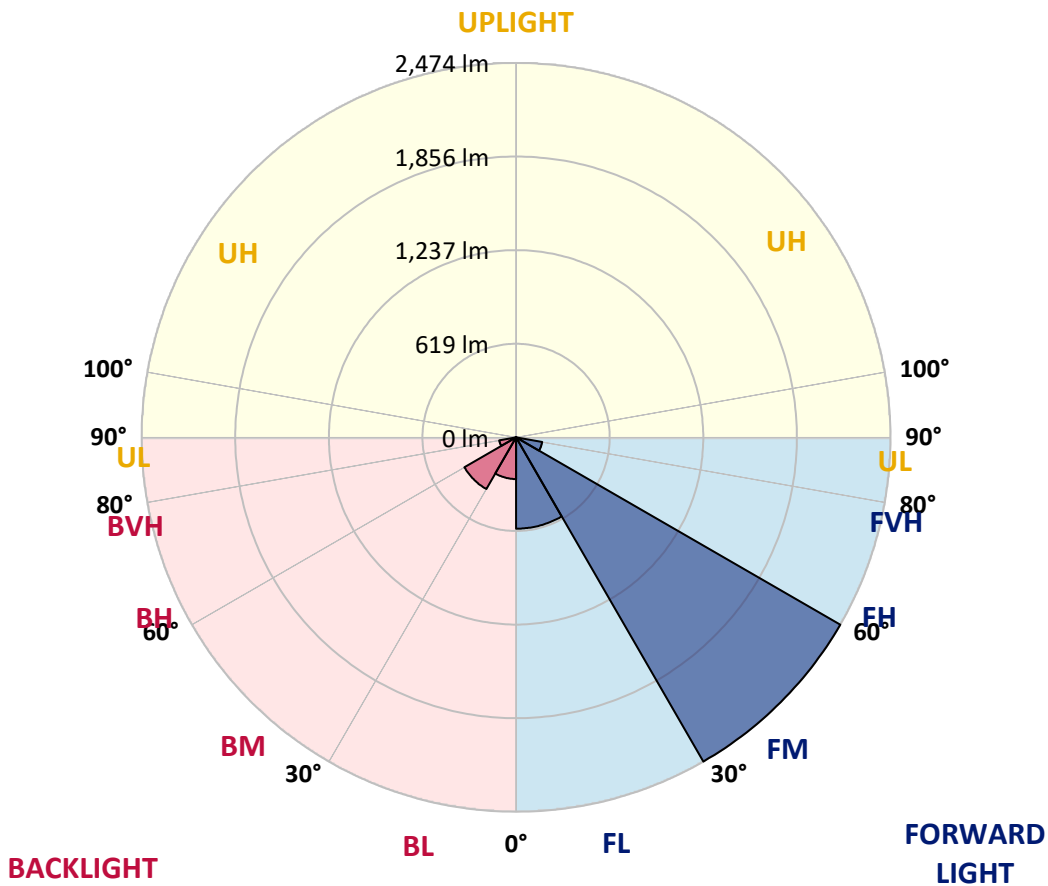
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	603.6	14.9			
FM (30°-60°)	2474.1	61.2			
FH (60°-80°)	175.1	4.3			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	275.4	6.8	B1/500		
BM (30°-60°)	394.2	9.7	B1/1000		
BH (60°-80°)	113.0	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°	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1
2.5°	1341.8	1349.5	1337.6	1333.2	1325.8	1313.0	1298.3	1294.2	1262.5	1241.8	1218.5
5°	1476.6	1480.8	1471.2	1461.6	1443.4	1420.7	1392.3	1386.2	1328.7	1281.1	1231.6
7.5°	1506.7	1505.1	1513.4	1518.8	1516.6	1507.6	1482.4	1470.6	1401.9	1326.5	1253.3
10°	1387.8	1378.9	1409.5	1446.0	1489.8	1540.2	1537.4	1536.4	1476.6	1387.5	1281.1
12.5°	1230.3	1225.8	1250.7	1296.4	1379.2	1491.0	1532.9	1565.5	1544.1	1445.7	1312.1
15°	1140.2	1138.6	1155.5	1188.4	1254.2	1395.5	1485.0	1549.5	1601.9	1508.0	1345.0
17.5°	1123.9	1124.8	1130.6	1149.4	1196.7	1313.0	1416.6	1506.7	1647.0	1576.3	1386.2
20°	1171.5	1177.9	1168.0	1170.8	1196.4	1283.3	1369.9	1463.5	1675.7	1645.1	1430.6
22.5°	1277.2	1275.0	1253.3	1240.5	1240.8	1301.5	1364.8	1443.4	1694.6	1711.8	1470.9
25°	1397.1	1394.5	1368.6	1340.2	1322.3	1351.1	1401.6	1464.8	1711.5	1772.9	1503.2
27.5°	1538.6	1530.7	1501.9	1465.5	1425.8	1438.3	1472.5	1522.7	1737.7	1832.9	1524.6
30°	1675.7	1685.0	1643.8	1600.6	1558.8	1551.1	1570.9	1616.3	1791.1	1903.2	1550.1
32.5°	1857.6	1854.4	1808.7	1752.4	1692.7	1686.9	1702.6	1744.1	1887.0	2000.4	1589.1
35°	2077.7	2078.4	2013.5	1937.4	1852.4	1837.1	1863.3	1903.6	2029.8	2132.0	1650.8
37.5°	2306.5	2305.6	2249.0	2162.7	2046.7	2025.0	2055.0	2085.1	2208.4	2311.3	1746.7
40°	2466.9	2473.3	2446.8	2401.4	2291.5	2238.5	2265.0	2285.8	2402.7	2522.2	1872.9
42.5°	2558.0	2567.6	2573.3	2600.5	2542.7	2486.1	2476.5	2487.4	2576.2	2718.1	1991.4
45°	2577.5	2590.3	2632.1	2732.8	2755.2	2739.2	2707.9	2681.7	2705.6	2857.1	2069.1
47.5°	2491.5	2513.9	2603.4	2779.5	2910.2	2960.3	2925.5	2885.6	2780.4	2892.9	2061.1
50°	2150.9	2177.1	2378.7	2684.2	2932.2	3115.0	3118.2	3059.1	2771.5	2789.7	1960.8
52.5°	1702.9	1720.8	1836.1	2275.5	2715.9	3108.6	3236.4	3173.1	2728.3	2660.6	1835.2
55°	1017.8	1046.5	1154.2	1501.3	2115.8	2755.2	3027.4	3058.1	2707.2	2552.3	1749.5
57.5°	343.5	357.6	460.5	663.1	1246.9	2017.3	2339.1	2463.7	2457.7	2386.7	1582.4
60°	163.6	166.8	187.6	251.5	499.1	1054.2	1384.6	1528.4	1659.4	1672.5	984.5
62.5°	124.6	126.5	137.1	150.8	200.7	444.2	634.6	744.6	795.4	682.6	358.5
65°	104.2	105.8	113.8	122.4	136.4	192.4	243.5	280.9	253.1	197.2	171.0
67.5°	86.9	88.2	94.3	103.5	113.1	128.8	135.2	139.0	145.7	163.6	157.2
70°	68.1	69.3	75.7	83.7	93.0	96.8	102.9	106.7	120.2	143.2	142.5
72.5°	52.4	54.0	57.5	62.6	70.3	74.1	80.8	85.3	93.0	111.5	119.2
75°	38.3	39.3	42.5	44.1	45.1	44.1	50.8	55.9	66.1	73.2	75.1
77.5°	15.7	17.6	16.9	16.9	20.1	24.3	27.8	31.0	38.0	42.2	42.5
80°	6.4	7.0	8.3	9.3	11.2	14.4	16.6	17.9	21.1	23.6	25.6
82.5°	3.8	4.2	4.8	5.1	6.4	8.3	9.6	10.5	13.1	15.7	16.6
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°	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1
2.5°	1204.7	1187.5	1167.3	1151.3	1132.8	1119.1	1099.6	1087.4	1075.9	1066.3	1059.3
5°	1206.0	1176.9	1135.0	1098.0	1059.6	1023.2	985.8	955.5	928.3	905.6	903.7
7.5°	1213.3	1171.5	1106.0	1041.1	966.3	894.1	821.9	763.1	718.4	695.0	690.2
10°	1225.8	1170.8	1076.3	972.7	845.2	728.9	643.3	598.5	572.6	563.4	560.2
12.5°	1238.9	1169.2	1038.2	876.2	699.2	597.2	550.3	544.8	549.6	550.3	549.9
15°	1254.9	1168.3	990.3	763.1	592.4	536.2	539.4	550.9	562.1	564.6	564.6
17.5°	1274.4	1166.0	925.1	652.5	525.7	524.4	541.3	556.7	567.2	569.1	569.1
20°	1294.8	1160.3	844.9	562.4	498.5	517.0	535.2	547.1	554.4	557.0	557.3
22.5°	1308.9	1145.0	752.5	495.6	481.6	503.0	516.1	528.2	528.2	521.8	519.9
25°	1311.8	1112.0	652.5	449.9	461.4	481.2	494.7	487.6	474.5	469.4	469.1
27.5°	1301.2	1064.1	553.8	417.3	437.1	457.0	454.7	444.5	438.7	433.6	435.5
30°	1288.4	1006.6	468.1	390.5	409.0	428.5	420.8	417.3	413.2	407.4	408.7
32.5°	1279.8	942.4	402.3	369.7	390.2	393.4	398.8	398.5	394.6	383.8	383.1
35°	1282.4	877.5	358.2	352.8	374.5	373.2	383.5	381.5	355.0	340.0	339.0
37.5°	1302.8	815.2	332.3	339.4	349.6	357.6	366.5	343.5	334.3	324.7	325.3
40°	1341.8	757.3	318.3	332.0	334.6	346.4	325.6	325.3	321.1	312.5	312.2
42.5°	1385.9	708.4	308.7	328.5	325.0	327.2	305.2	307.7	307.4	302.0	300.4
45°	1412.7	663.4	301.0	315.4	316.4	294.0	287.3	290.2	291.8	288.9	288.6
47.5°	1384.9	611.6	293.0	295.3	303.6	279.0	270.7	271.0	273.9	274.2	272.9
50°	1307.0	553.8	283.4	278.0	272.6	263.3	255.6	254.0	256.9	259.8	260.8
52.5°	1206.3	498.5	267.5	259.2	246.4	246.4	242.9	237.7	241.6	245.4	246.7
55°	1132.5	457.6	244.8	235.5	221.4	226.2	225.6	221.1	226.2	229.1	230.1
57.5°	981.3	367.8	215.4	212.5	200.7	206.4	207.7	202.0	199.4	200.0	201.0
60°	582.5	237.4	194.3	194.0	183.4	190.1	194.0	188.2	180.5	181.5	182.8
62.5°	261.4	181.5	167.8	166.5	166.2	174.8	178.9	173.5	162.7	163.6	164.9
65°	164.6	156.9	145.7	145.7	150.8	158.2	161.4	156.9	144.4	142.8	144.1
67.5°	152.7	146.0	134.5	132.3	134.9	140.9	141.2	132.6	125.3	124.0	124.0
70°	137.1	132.0	120.8	116.3	115.4	115.0	114.1	111.8	107.0	105.8	106.4
72.5°	113.4	109.9	102.9	98.1	95.5	95.2	91.4	89.5	85.3	84.7	84.4
75°	75.1	76.1	76.1	75.4	73.2	72.2	68.1	66.1	61.4	59.4	59.1
77.5°	44.4	45.4	46.7	47.0	46.7	46.7	42.8	40.6	35.8	33.2	32.6
80°	27.2	27.8	28.4	29.4	28.1	27.2	23.6	21.4	19.2	17.6	17.3
82.5°	17.6	18.2	18.5	19.2	18.5	17.3	14.4	13.1	11.5	10.2	9.9
85°	9.9	10.2	10.9	10.9	9.9	8.9	7.3	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)