

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: P630802

Luminaire Tested: GWS-SA1E-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5850.6 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

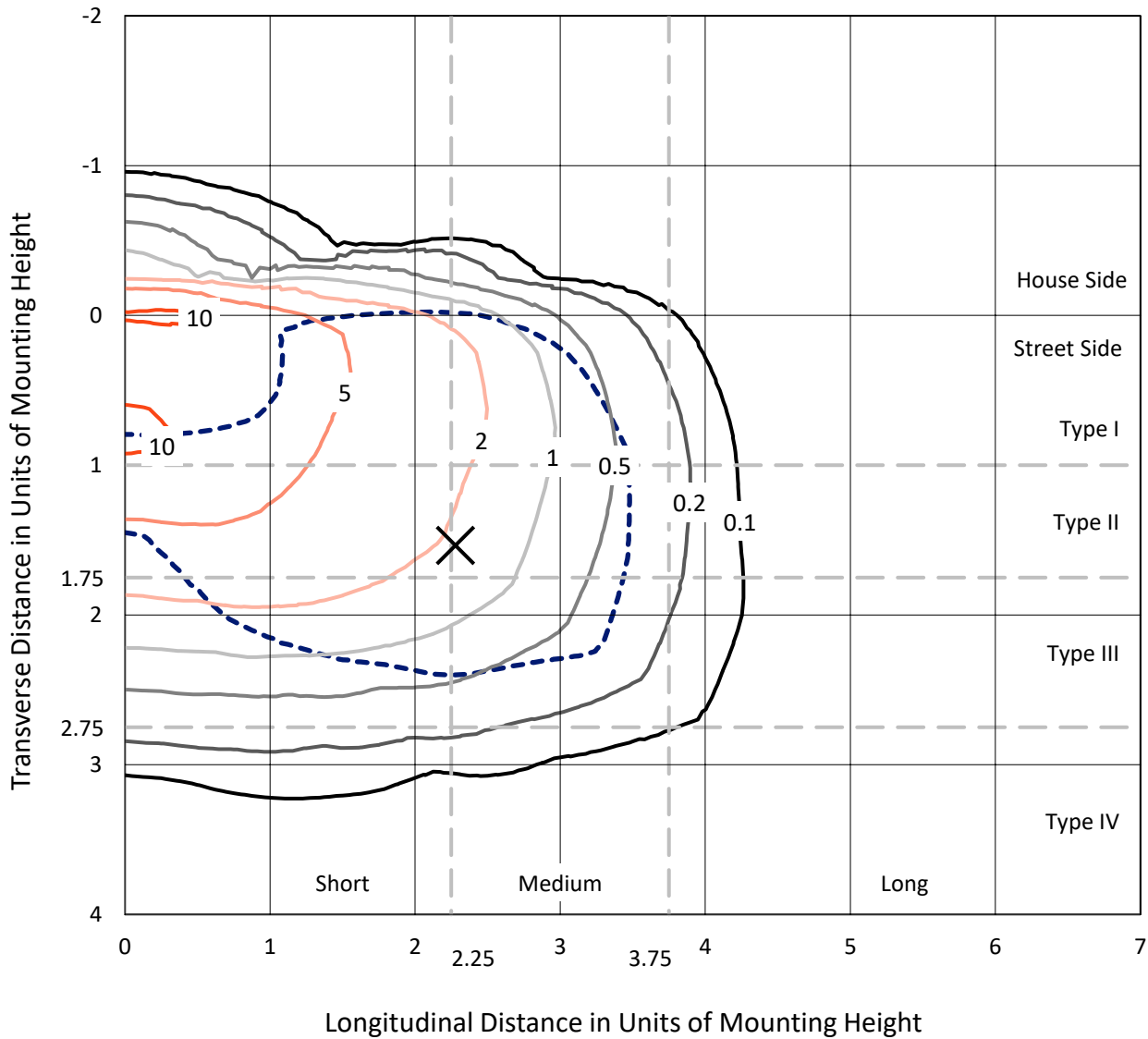
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

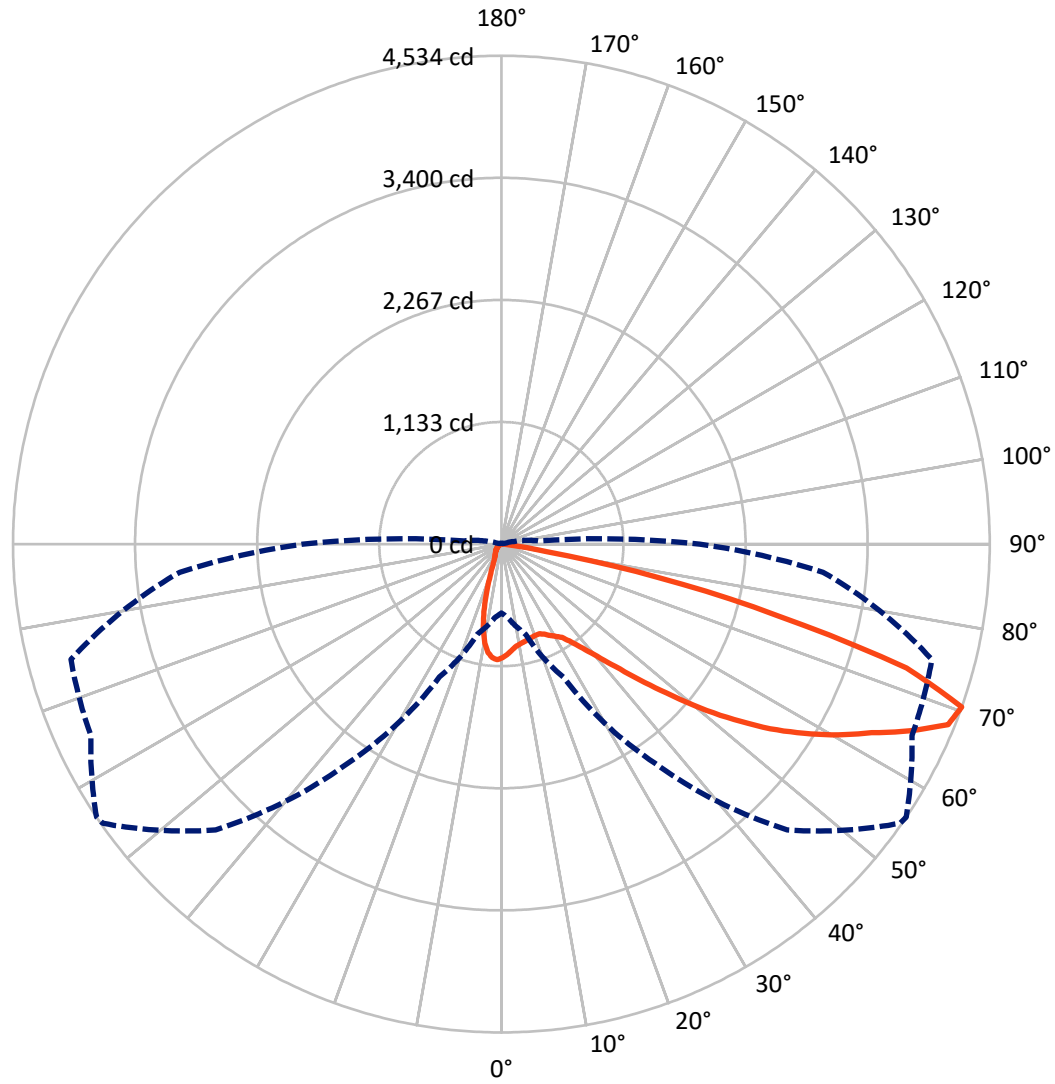
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	525.5	0.0	525.5
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	5325.1	0.0	5325.1
	% Fixture	91.0	0.0	91.0
Total	Lumens	5850.6	0.0	5850.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.5
10°-20°	203.7	3.5
20°-30°	322.7	5.5
30°-40°	556.5	9.5
40°-50°	939.7	16.1
50°-60°	1380.7	23.6
60°-70°	1636.9	28.0
70°-80°	698.0	11.9
80°-90°	21.9	0.4
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°	5850.6	100.0
0°-180°	5850.6	100.0

Coefficient of Utilization



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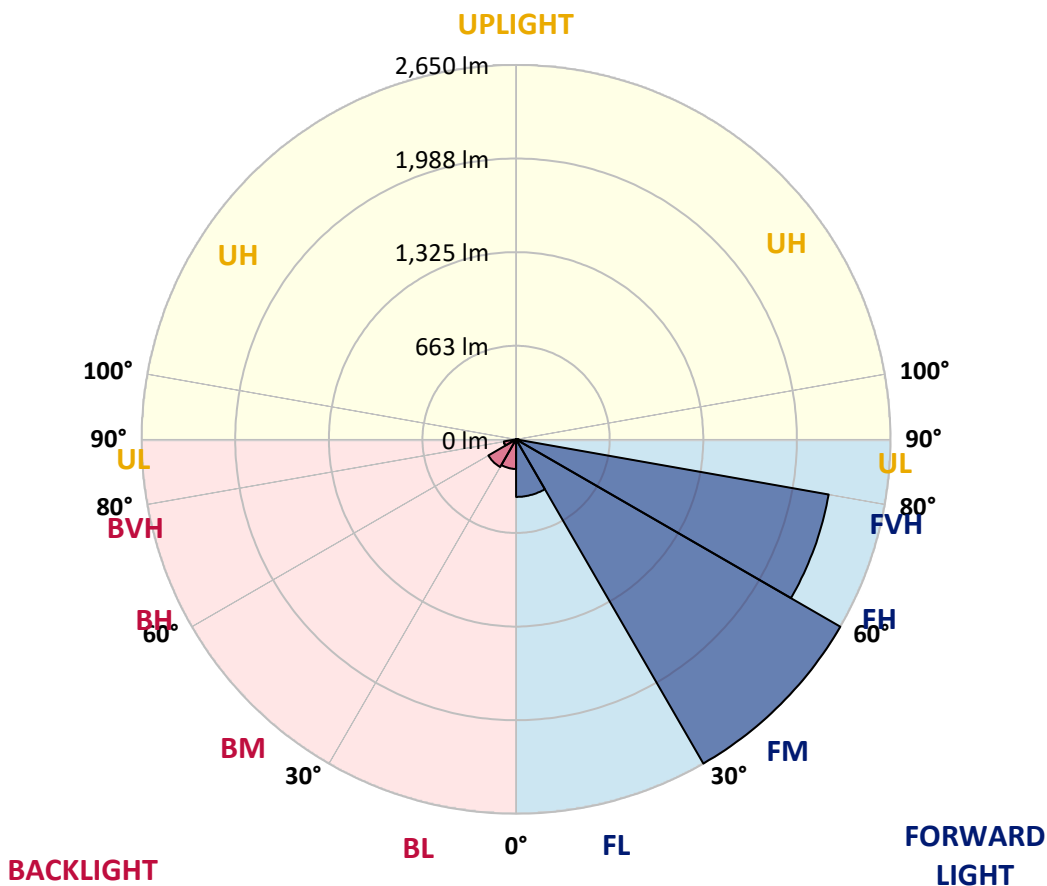
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.7	7.0			
FM (30°-60°)	2650.5	45.3			
FH (60°-80°)	2247.3	38.4			G2/5000
FVH (80°-90°)	19.7	0.3			G1/100
BL (0°-30°)	209.3	3.6	B1/500		
BM (30°-60°)	226.3	3.9	B1/1000		
BH (60°-80°)	87.7	1.5	B0/110		G0/110
BVH (80°-90°)	2.2	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9
2.5°	982.1	980.5	981.5	989.6	1004.6	1011.5	1023.3	1025.5	1035.1	1047.4	1052.2
5°	918.3	912.9	915.6	926.9	944.0	963.3	985.3	991.2	1015.3	1042.6	1063.0
7.5°	859.9	854.0	860.4	878.1	902.2	923.1	955.8	959.6	998.1	1046.3	1083.3
10°	768.3	769.9	782.8	813.8	850.8	894.2	938.1	943.5	991.2	1058.7	1116.0
12.5°	698.1	694.4	708.3	743.6	795.6	858.8	924.7	931.7	991.7	1077.4	1157.8
15°	665.4	664.3	670.2	696.0	746.3	820.8	912.4	921.5	998.7	1094.6	1197.4
17.5°	666.5	664.9	664.3	679.4	716.9	792.4	899.0	910.8	1004.6	1113.3	1239.2
20°	713.1	705.6	692.2	685.2	707.7	774.2	889.9	903.3	1013.1	1133.1	1283.7
22.5°	810.6	813.3	777.4	739.9	729.2	776.3	888.8	904.4	1031.9	1164.2	1338.3
25°	1005.6	1001.3	934.9	850.8	792.4	801.0	907.6	926.3	1068.9	1208.7	1389.8
27.5°	1249.9	1253.7	1162.6	1028.7	906.5	851.9	941.9	960.6	1111.7	1236.5	1424.1
30°	1516.2	1512.5	1415.0	1266.5	1068.3	936.5	976.2	992.8	1133.1	1251.5	1459.4
32.5°	1768.0	1759.5	1663.0	1507.6	1274.6	1069.9	1023.3	1033.0	1161.5	1284.2	1507.1
35°	1982.9	1982.3	1898.2	1732.7	1486.7	1237.1	1104.2	1112.2	1214.6	1336.2	1577.3
37.5°	2204.7	2197.2	2102.9	1951.8	1704.8	1420.3	1228.0	1224.8	1298.2	1412.8	1663.6
40°	2386.8	2382.0	2309.7	2164.5	1931.4	1622.8	1378.0	1368.3	1397.3	1518.9	1783.6
42.5°	2521.8	2522.4	2499.9	2411.5	2171.5	1857.0	1566.6	1551.6	1551.0	1679.1	1942.1
45°	2624.2	2631.1	2664.9	2651.5	2454.9	2129.7	1808.2	1792.7	1766.4	1887.0	2123.8
47.5°	2671.9	2681.0	2782.8	2836.3	2702.9	2400.2	2095.9	2063.2	2011.8	2163.4	2326.8
50°	2667.0	2683.1	2825.1	2988.0	2928.0	2674.5	2409.3	2393.8	2309.7	2455.9	2527.7
52.5°	2557.7	2592.0	2827.8	3080.1	3101.0	2927.4	2733.5	2704.5	2663.8	2761.3	2716.3
55°	2260.9	2302.7	2714.7	3109.6	3236.0	3148.2	3050.6	3027.1	2959.6	3049.6	2880.8
57.5°	2099.7	2135.6	2476.8	3095.1	3350.7	3352.3	3333.0	3313.7	3258.0	3334.6	3073.7
60°	2002.7	2038.6	2349.9	3042.1	3454.6	3567.7	3598.2	3596.1	3515.7	3658.7	3299.8
62.5°	1860.7	1910.0	2217.5	2904.4	3528.6	3779.8	3872.0	3857.5	3768.0	3996.3	3523.7
65°	1574.1	1616.9	1946.4	2677.2	3485.2	3955.6	4168.8	4176.3	4072.9	4314.0	3700.5
67.5°	1103.7	1135.3	1462.6	2200.4	3190.5	4013.4	4472.6	4472.0	4295.8	4476.9	3622.3
70°	639.7	683.1	864.2	1360.3	2482.2	3750.4	4518.1	4533.6	4205.2	4136.6	2997.6
72.5°	247.5	283.4	489.7	722.7	1294.4	2872.8	3886.4	3932.0	3519.4	3191.0	2086.3
75°	73.9	82.5	230.4	384.7	519.7	1387.6	2631.1	2644.0	2414.2	1990.4	1069.4
77.5°	55.2	61.1	100.7	194.5	182.2	420.6	1361.4	1486.7	1281.6	711.0	294.7
80°	37.5	44.5	71.8	94.8	67.5	112.0	382.5	420.0	391.1	159.7	73.9
82.5°	16.6	21.4	50.9	47.7	24.6	32.1	117.9	125.4	80.9	48.2	25.7
85°	1.6	2.1	19.3	20.9	9.1	7.5	24.6	24.6	17.7	16.6	10.7
87.5°	0.0	0.0	0.5	1.1	1.1	1.6	2.1	2.7	3.2	4.3	5.4
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°	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9
2.5°	1064.6	1058.1	1066.2	1072.6	1074.2	1062.4	1055.5	1045.3	1043.1	1043.7	1041.0
5°	1079.0	1075.8	1081.7	1074.7	1056.5	1022.2	992.8	960.1	942.4	932.2	931.2
7.5°	1105.8	1104.2	1097.8	1066.2	1009.4	933.3	859.9	788.1	743.6	727.6	724.9
10°	1145.5	1142.3	1116.0	1041.0	919.9	773.6	650.4	547.6	484.9	466.7	444.1
12.5°	1191.0	1184.6	1127.3	986.9	784.9	582.4	428.6	313.4	259.3	243.2	243.2
15°	1234.9	1221.0	1120.8	897.4	618.8	378.8	239.5	181.1	164.5	160.2	160.2
17.5°	1279.9	1253.2	1095.6	775.3	427.5	223.9	159.7	148.4	146.3	146.8	147.3
20°	1322.3	1280.5	1051.2	628.5	272.7	156.4	143.0	140.4	139.3	140.4	139.8
22.5°	1368.3	1305.7	983.7	468.3	177.3	140.9	136.1	133.9	132.9	134.5	134.5
25°	1413.9	1323.9	894.2	315.0	140.9	131.3	128.6	126.4	125.4	125.9	125.9
27.5°	1437.5	1316.9	776.9	200.9	126.4	121.6	118.9	116.3	114.7	114.1	114.7
30°	1453.5	1295.5	633.3	143.0	114.7	108.8	106.1	103.9	99.7	97.0	98.0
32.5°	1478.7	1274.1	477.4	120.0	105.0	95.9	91.6	86.3	80.4	77.7	77.7
35°	1508.7	1244.6	334.9	108.2	94.8	85.2	77.2	68.0	61.1	58.9	58.9
37.5°	1548.4	1216.7	222.9	100.2	86.3	76.1	64.8	54.1	46.6	45.5	45.0
40°	1607.8	1193.1	157.0	94.3	78.8	66.4	53.0	41.8	36.4	34.8	34.8
42.5°	1685.0	1169.0	124.3	88.4	72.3	57.3	42.3	33.2	28.9	27.9	27.3
45°	1780.3	1140.6	108.2	83.0	65.9	47.7	33.8	27.9	24.6	23.6	23.6
47.5°	1883.8	1102.1	100.7	76.1	58.4	38.6	28.4	24.1	22.5	22.0	21.4
50°	1985.5	1050.1	94.3	69.6	49.8	31.6	24.6	22.0	20.9	20.4	20.4
52.5°	2074.5	989.6	86.3	62.1	40.7	27.3	22.0	20.4	19.3	18.2	17.7
55°	2150.6	923.7	76.1	53.6	33.2	24.1	20.4	18.8	17.7	16.6	16.1
57.5°	2248.6	886.2	61.1	43.4	27.3	21.4	18.8	17.1	16.1	14.5	14.5
60°	2357.4	858.8	45.5	34.3	23.6	19.8	17.1	15.5	14.5	12.9	12.9
62.5°	2444.7	818.1	35.9	27.9	20.4	17.7	15.5	13.9	12.9	11.3	11.3
65°	2477.9	734.0	29.5	22.0	16.6	15.5	13.9	12.9	11.3	9.6	9.6
67.5°	2327.9	565.8	24.6	17.7	13.9	13.4	12.3	11.8	9.6	8.6	8.0
70°	1843.6	345.0	20.4	14.5	11.8	11.3	11.3	10.2	8.6	8.0	7.5
72.5°	1263.3	177.9	16.6	11.8	10.2	10.2	9.6	9.1	8.0	7.5	7.5
75°	656.3	59.5	12.9	9.1	8.0	8.6	8.6	8.0	7.5	7.5	7.0
77.5°	188.1	26.8	9.6	7.0	6.4	6.4	7.0	7.0	7.0	6.4	6.4
80°	48.8	15.5	7.0	5.4	5.4	5.4	5.4	5.9	6.4	5.9	5.9
82.5°	19.8	8.6	4.8	4.3	4.3	4.3	4.3	4.8	5.4	5.4	5.4
85°	12.3	4.3	3.8	3.8	3.8	3.2	3.2	3.8	3.8	4.3	4.3
87.5°	7.5	3.2	3.2	3.2	3.2	2.7	2.7	2.7	2.7	2.7	2.7
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)