

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: P632823

Luminaire Tested: GWS-SA2D-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6935.6 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

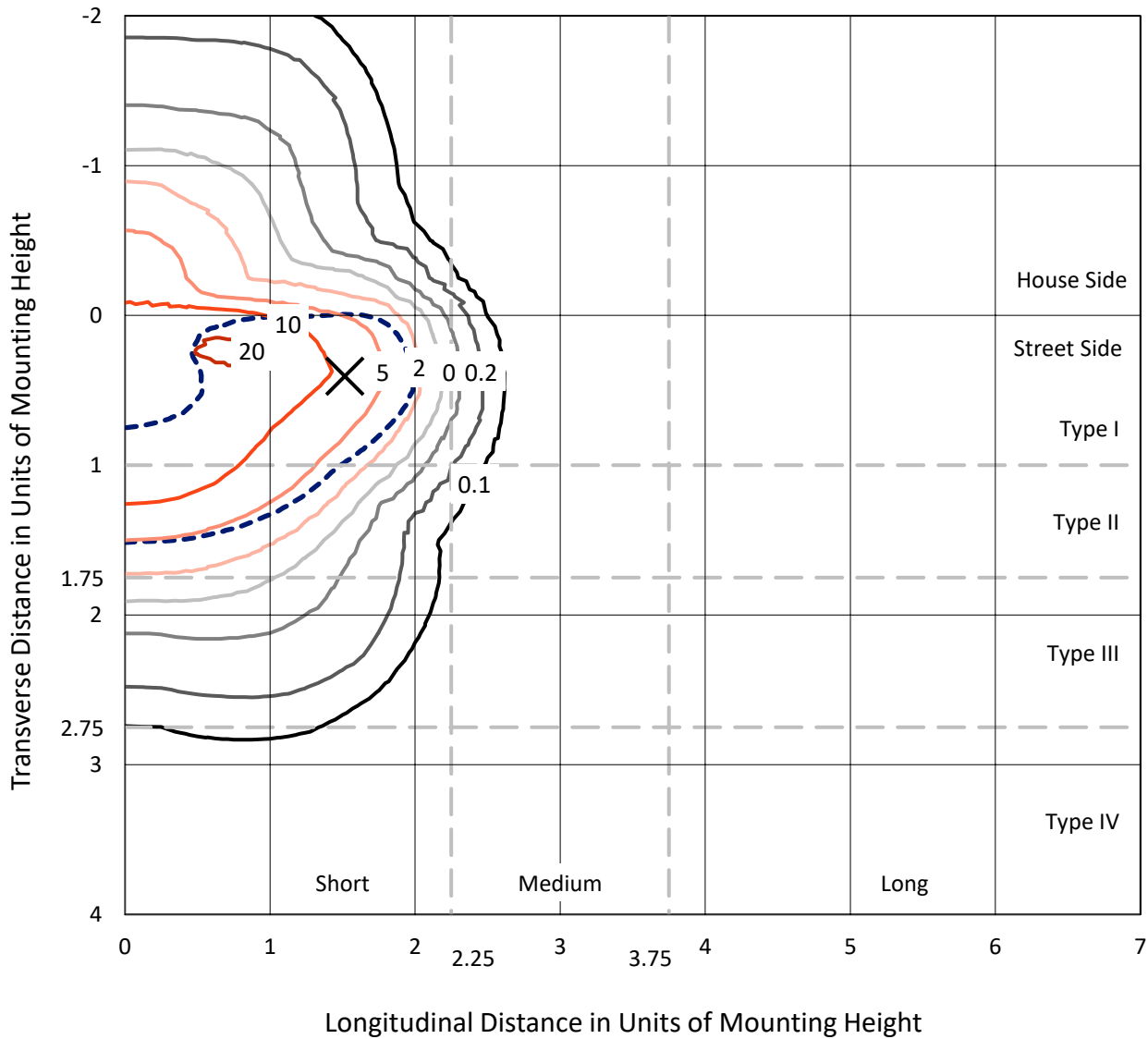
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

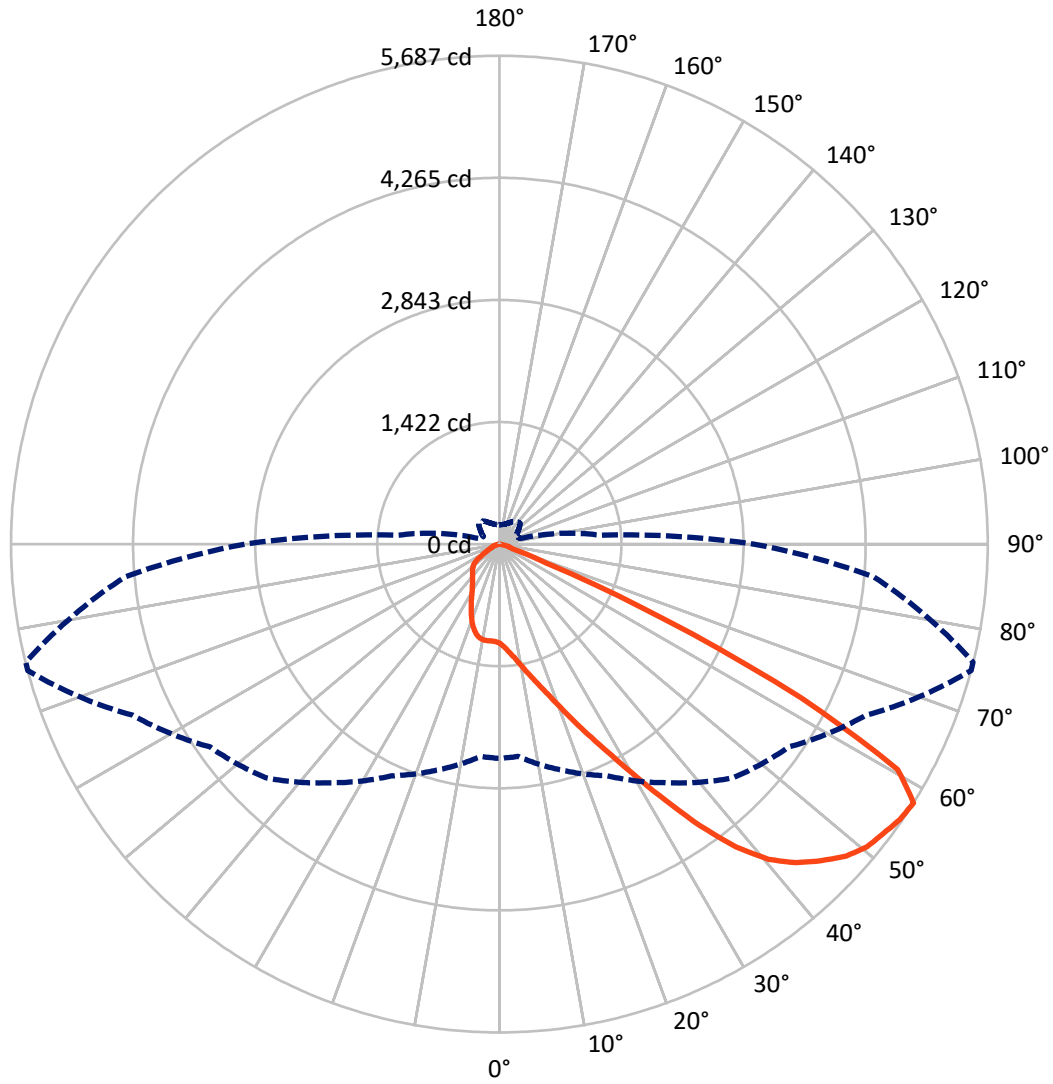
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1132.9	0.0	1132.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	5802.7	0.0	5802.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	6935.6	0.0	6935.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	1.7
10°-20°	382.4	5.5
20°-30°	700.2	10.1
30°-40°	1161.7	16.8
40°-50°	1774.2	25.6
50°-60°	1993.6	28.7
60°-70°	735.3	10.6
70°-80°	70.3	1.0
80°-90°	0.1	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°	6935.6	100.0
0°-180°	6935.6	100.0

Coefficient of Utilization



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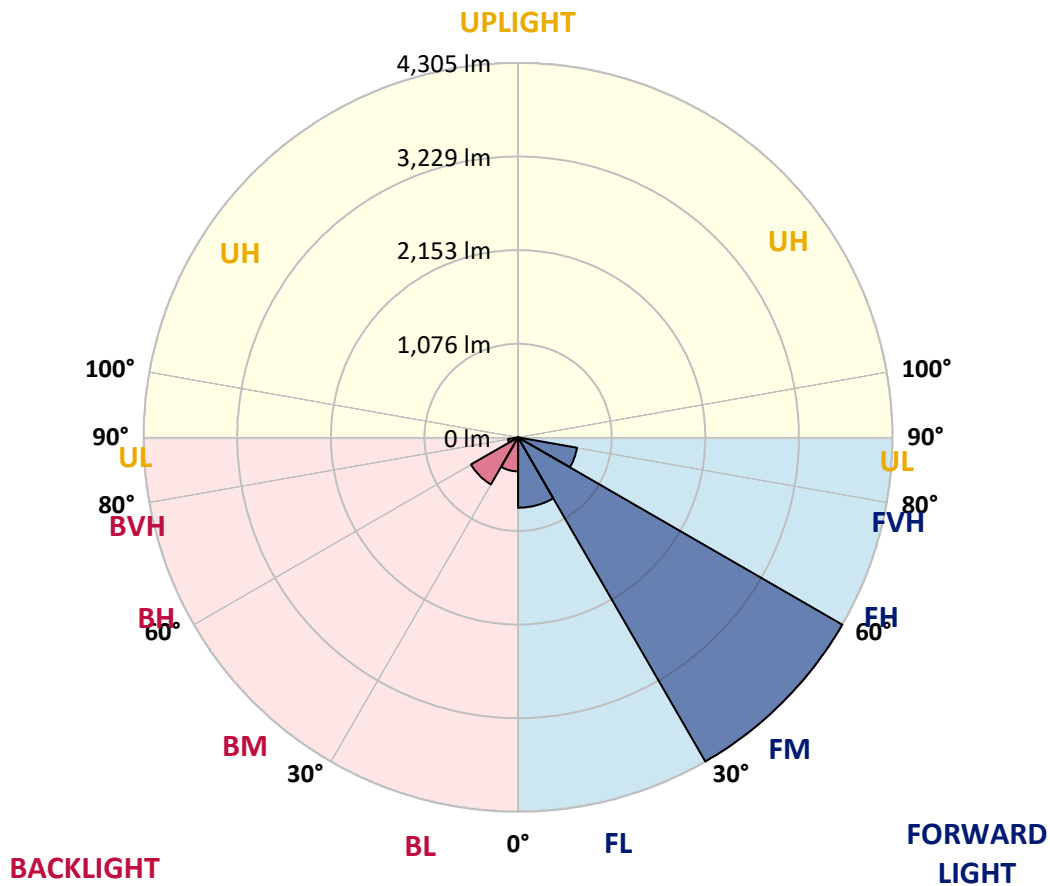
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.4	11.7			
FM (30°-60°)	4305.3	62.1			
FH (60°-80°)	688.0	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	390.9	5.6	B1/500		
BM (30°-60°)	624.3	9.0	B1/1000		
BH (60°-80°)	117.6	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8
2.5°	1292.4	1305.8	1301.6	1293.2	1288.2	1270.6	1259.7	1227.9	1205.3	1202.8	1181.9
5°	1455.6	1453.1	1449.7	1439.7	1431.3	1403.7	1371.0	1317.5	1269.8	1263.9	1219.5
7.5°	1545.1	1546.8	1548.5	1546.8	1541.0	1520.0	1484.0	1421.3	1348.4	1343.4	1273.1
10°	1582.0	1585.3	1593.7	1609.6	1623.8	1622.1	1601.2	1536.8	1447.2	1438.8	1344.3
12.5°	1599.5	1603.7	1617.1	1647.3	1685.8	1715.9	1719.2	1661.5	1562.7	1549.3	1428.8
15°	1623.8	1628.0	1644.7	1684.1	1740.2	1799.6	1838.1	1801.3	1690.8	1676.6	1521.7
17.5°	1634.7	1640.6	1664.8	1716.7	1789.5	1880.8	1967.8	1964.5	1842.3	1831.4	1629.7
20°	1655.6	1659.8	1681.6	1737.7	1825.5	1957.0	2103.4	2156.2	2027.3	2011.4	1760.3
22.5°	1721.7	1723.4	1733.5	1768.6	1850.7	2012.2	2241.5	2379.6	2245.7	2224.8	1906.7
25°	1829.7	1828.9	1833.1	1838.9	1899.2	2068.3	2374.6	2631.6	2496.0	2473.4	2072.5
27.5°	1967.0	1967.0	1977.0	1960.3	1984.6	2137.7	2506.0	2921.2	2787.3	2755.5	2254.1
30°	2128.5	2127.7	2151.1	2124.4	2131.9	2247.4	2647.5	3236.8	3138.8	3099.5	2463.3
32.5°	2347.8	2342.8	2369.6	2332.8	2307.7	2413.1	2819.9	3566.5	3559.8	3499.6	2726.2
35°	2624.9	2616.5	2624.9	2588.9	2543.7	2645.0	3045.9	3895.5	4026.9	3963.3	3039.2
37.5°	2900.3	2927.1	2936.3	2874.3	2837.5	2938.8	3317.9	4190.1	4473.0	4406.9	3364.8
40°	3225.0	3216.7	3248.5	3179.0	3155.6	3267.7	3584.1	4409.4	4826.3	4763.5	3654.4
42.5°	3464.4	3479.5	3518.8	3480.3	3461.9	3567.4	3807.6	4537.5	5071.5	5009.6	3861.2
45°	3751.5	3762.4	3777.5	3745.7	3726.4	3830.2	3969.1	4593.6	5258.2	5191.2	4000.1
47.5°	4062.1	4070.4	4070.4	4005.1	3943.2	3985.9	4077.1	4625.4	5429.7	5365.3	4103.1
50°	4284.7	4288.9	4325.7	4279.7	4144.9	4078.8	4126.5	4656.3	5543.6	5483.3	4136.6
52.5°	4087.2	4082.1	4203.5	4298.9	4334.9	4203.5	4211.9	4701.5	5598.8	5546.9	4163.3
55°	3441.8	3433.5	3604.2	3836.1	4153.3	4321.5	4314.8	4728.3	5659.9	5628.1	4260.4
57.5°	2495.2	2480.9	2718.6	2976.4	3392.4	3848.6	4116.5	4713.3	5686.7	5684.2	4373.4
60°	1499.9	1488.2	1712.5	1983.7	2305.2	2763.8	3208.3	4221.9	5328.5	5333.5	4079.6
62.5°	923.2	934.1	1136.7	1274.8	1394.5	1532.6	1789.5	2840.0	3947.4	3980.0	2866.8
65°	621.1	629.4	816.9	991.0	991.0	810.2	695.6	1357.6	2105.9	2050.7	1356.0
67.5°	416.8	426.0	574.2	777.6	806.9	565.0	282.1	405.1	586.8	569.2	335.6
70°	245.2	255.3	382.5	533.2	587.6	393.4	188.3	171.6	166.6	161.5	130.6
72.5°	109.6	113.8	195.0	271.2	247.8	165.7	133.1	137.3	129.7	127.2	106.3
75°	33.5	35.2	50.2	58.6	59.4	59.4	80.4	108.0	102.1	103.0	82.0
77.5°	8.4	8.4	13.4	12.6	6.7	5.9	15.1	24.3	25.1	22.6	16.7
80°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8
2.5°	1172.7	1150.9	1136.7	1116.6	1102.4	1087.3	1073.9	1063.0	1057.2	1055.5	1056.3
5°	1199.4	1165.1	1131.7	1093.1	1066.4	1041.3	1021.2	1005.3	997.7	995.2	995.2
7.5°	1240.5	1192.8	1133.3	1073.1	1027.9	988.5	965.1	947.5	940.8	939.1	934.1
10°	1294.0	1228.7	1130.8	1037.1	973.5	932.4	915.7	910.7	913.2	914.0	913.2
12.5°	1358.5	1266.4	1114.9	984.3	915.7	890.6	892.3	905.7	920.7	928.3	929.9
15°	1427.1	1300.7	1078.9	921.6	866.3	865.5	889.8	920.7	950.0	962.6	965.9
17.5°	1504.1	1328.4	1023.7	854.6	823.6	847.9	891.4	939.1	978.5	999.4	1003.6
20°	1588.7	1351.0	953.4	791.8	786.0	829.5	889.8	948.3	996.9	1020.3	1024.5
22.5°	1676.6	1366.9	872.2	734.1	751.6	808.6	873.8	930.8	976.8	1003.6	1006.9
25°	1777.0	1368.5	789.3	685.5	719.8	780.1	835.3	882.2	920.7	944.2	946.7
27.5°	1864.9	1348.4	715.7	646.2	690.5	744.9	781.8	807.7	834.5	847.9	848.7
30°	1966.2	1313.3	646.2	614.4	660.4	701.4	719.8	725.7	728.2	730.7	727.4
32.5°	2086.7	1270.6	594.3	583.4	626.1	653.7	658.7	647.0	632.8	612.7	607.7
35°	2234.8	1232.1	551.6	553.3	588.4	605.2	601.0	575.9	548.2	524.0	519.8
37.5°	2395.6	1199.4	519.0	524.0	547.4	559.1	546.6	519.0	506.4	485.5	486.3
40°	2537.8	1172.7	489.7	494.7	505.6	516.4	496.4	477.9	501.4	499.7	501.4
42.5°	2639.1	1150.1	464.5	462.0	469.6	477.1	462.0	452.8	492.2	481.3	487.1
45°	2698.6	1129.1	443.6	428.6	440.3	453.7	443.6	431.9	445.3	395.1	390.9
47.5°	2738.7	1117.4	425.2	395.9	416.8	440.3	419.3	390.9	371.6	328.1	324.8
50°	2742.9	1111.6	403.4	362.4	389.2	414.3	390.1	350.7	323.1	303.8	301.3
52.5°	2764.7	1123.3	373.3	319.7	349.0	389.2	372.5	333.1	295.5	278.7	275.4
55°	2861.8	1172.7	323.1	261.2	303.8	370.0	358.2	297.1	261.2	251.1	248.6
57.5°	2962.2	1182.7	254.5	206.7	264.5	342.3	327.3	273.7	238.6	226.8	224.3
60°	2708.6	974.3	190.8	170.8	233.5	316.4	303.0	259.5	218.5	204.2	201.7
62.5°	1779.5	526.5	151.5	144.8	196.7	267.8	276.2	234.4	195.0	180.0	179.1
65°	820.3	244.4	116.3	114.7	154.0	213.4	237.7	205.1	164.9	151.5	151.5
67.5°	223.5	121.4	91.2	84.5	104.6	143.1	173.3	153.2	117.2	101.3	100.4
70°	111.3	97.9	82.0	72.8	75.3	88.7	102.1	85.4	59.4	48.5	47.7
72.5°	91.2	80.4	69.5	61.9	56.9	54.4	52.7	42.7	27.6	20.9	20.1
75°	67.8	57.8	49.4	40.2	34.3	31.8	28.5	20.9	11.7	6.7	5.9
77.5°	15.1	14.2	13.4	10.0	9.2	7.5	5.9	4.2	1.7	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)