

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: P632122

Luminaire Tested: GWS-SA2C-722-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632122  
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-SA2C-722-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

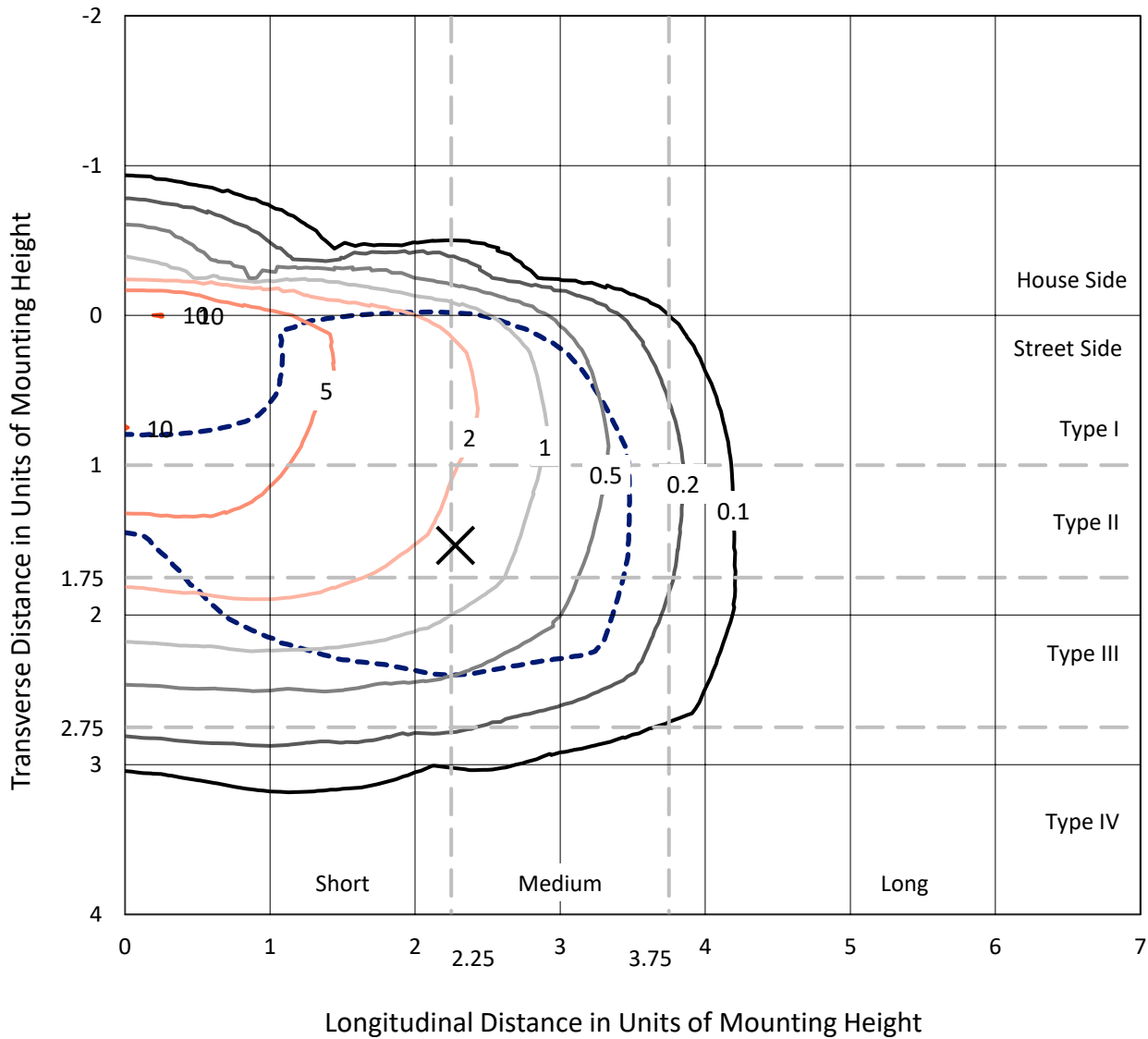
Lumens per Lamp: N/A  
Luminaire Lumens: 5336.8 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): 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

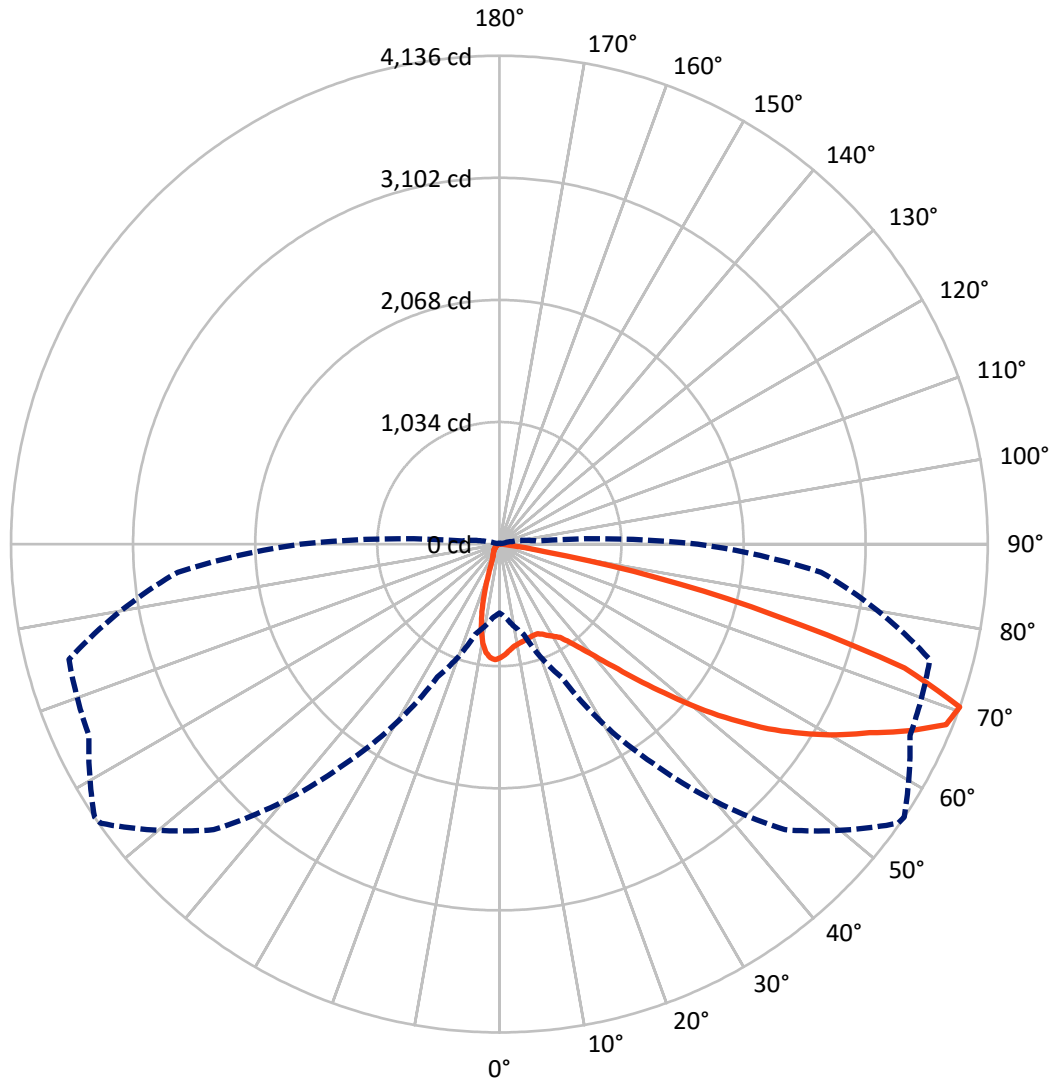
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 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
<b>House Side</b>	Lumens	479.3	0.0	479.3
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	4857.5	0.0	4857.5
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	5336.8	0.0	5336.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	1.5
10°-20°	185.8	3.5
20°-30°	294.3	5.5
30°-40°	507.6	9.5
40°-50°	857.2	16.1
50°-60°	1259.4	23.6
60°-70°	1493.1	28.0
70°-80°	636.7	11.9
80°-90°	20.0	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°	5336.8	100.0
0°-180°	5336.8	100.0

**Coefficient of Utilization**



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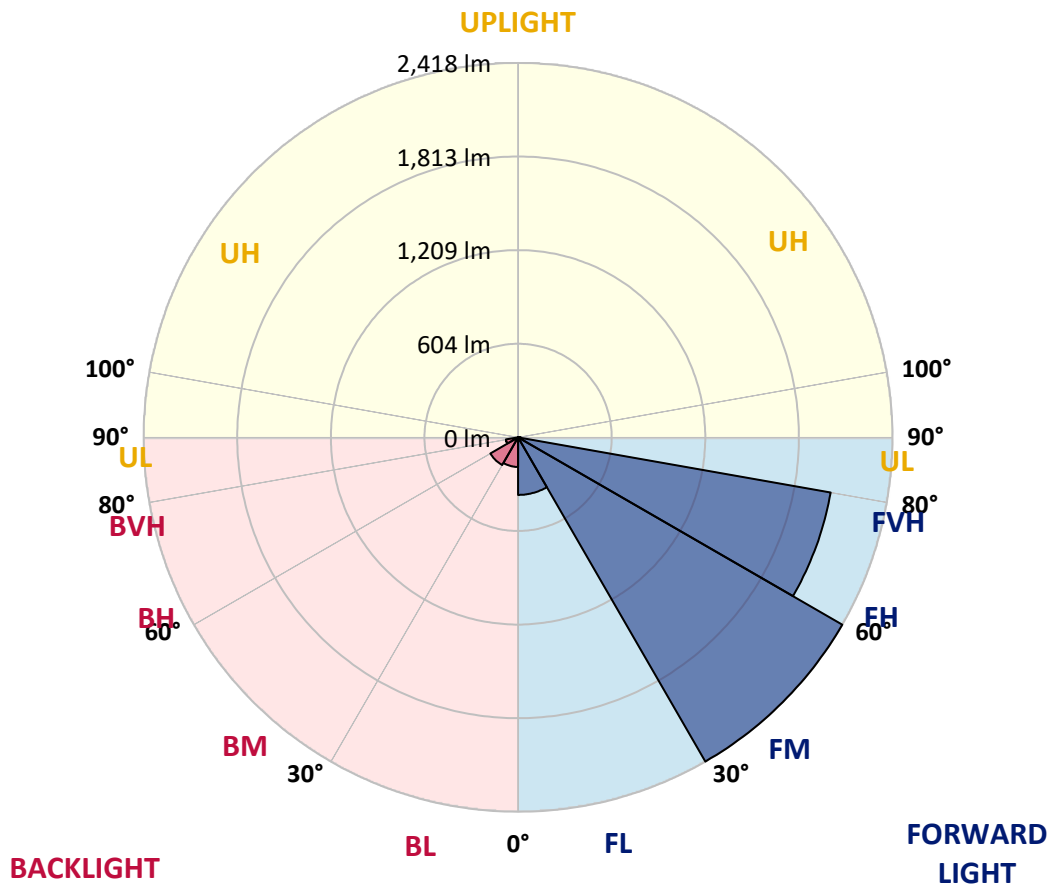
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.9	7.0			
FM (30°-60°)	2417.7	45.3			
FH (60°-80°)	2049.9	38.4			G2/5000
FVH (80°-90°)	18.0	0.3			G1/100
BL (0°-30°)	190.9	3.6	B1/500		
BM (30°-60°)	206.5	3.9	B0/220		
BH (60°-80°)	80.0	1.5	B0/110		G0/110
BVH (80°-90°)	2.0	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	962.3	962.3	962.3	962.3	962.3	962.3	962.3	962.3	962.3	962.3	962.3
2.5°	895.8	894.3	895.3	902.7	916.3	922.7	933.4	935.4	944.2	955.4	959.8
5°	837.7	832.8	835.2	845.5	861.1	878.7	898.7	904.1	926.1	951.0	969.6
7.5°	784.4	779.0	784.9	801.0	823.0	842.1	871.9	875.3	910.5	954.5	988.2
10°	700.8	702.3	714.0	742.4	776.1	815.7	855.7	860.6	904.1	965.7	1018.0
12.5°	636.8	633.4	646.1	678.3	725.7	783.4	843.5	849.9	904.6	982.8	1056.1
15°	607.0	606.0	611.4	634.8	680.8	748.7	832.3	840.6	911.0	998.4	1092.3
17.5°	608.0	606.5	606.0	619.7	653.9	722.8	820.1	830.8	916.3	1015.5	1130.4
20°	650.5	643.6	631.4	625.1	645.6	706.2	811.8	824.0	924.2	1033.6	1171.0
22.5°	739.4	741.9	709.1	674.9	665.1	708.1	810.8	824.9	941.3	1062.0	1220.8
25°	917.3	913.4	852.8	776.1	722.8	730.6	827.9	845.0	975.0	1102.5	1267.7
27.5°	1140.2	1143.6	1060.5	938.3	826.9	777.1	859.2	876.3	1014.1	1128.0	1299.0
30°	1383.1	1379.6	1290.7	1155.3	974.5	854.3	890.4	905.6	1033.6	1141.6	1331.3
32.5°	1612.8	1604.9	1517.0	1375.2	1162.7	976.0	933.4	942.2	1059.5	1171.4	1374.8
35°	1808.7	1808.2	1731.5	1580.5	1356.2	1128.4	1007.2	1014.6	1107.9	1218.9	1438.8
37.5°	2011.1	2004.2	1918.2	1780.4	1555.1	1295.6	1120.1	1117.2	1184.2	1288.7	1517.5
40°	2177.2	2172.8	2106.8	1974.4	1761.8	1480.3	1257.0	1248.2	1274.6	1385.5	1626.9
42.5°	2300.4	2300.9	2280.3	2199.7	1980.8	1693.9	1429.0	1415.3	1414.8	1531.6	1771.6
45°	2393.7	2400.1	2430.9	2418.6	2239.3	1942.6	1649.4	1635.2	1611.3	1721.3	1937.3
47.5°	2437.2	2445.5	2538.4	2587.3	2465.6	2189.4	1911.9	1882.0	1835.1	1973.4	2122.5
50°	2432.8	2447.5	2577.0	2725.6	2670.8	2439.7	2197.7	2183.6	2106.8	2240.3	2305.8
52.5°	2333.1	2364.4	2579.4	2809.6	2828.7	2670.3	2493.4	2467.0	2429.9	2518.8	2477.8
55°	2062.4	2100.5	2476.3	2836.5	2951.8	2871.7	2782.7	2761.2	2699.7	2781.8	2627.8
57.5°	1915.3	1948.0	2259.3	2823.3	3056.4	3057.9	3040.3	3022.7	2971.9	3041.8	2803.8
60°	1826.8	1859.6	2143.5	2774.9	3151.2	3254.3	3282.2	3280.3	3206.9	3337.4	3010.0
62.5°	1697.3	1742.3	2022.8	2649.3	3218.7	3447.9	3531.9	3518.7	3437.1	3645.3	3214.3
65°	1435.8	1474.9	1775.5	2442.1	3179.1	3608.2	3802.7	3809.5	3715.2	3935.1	3375.6
67.5°	1006.8	1035.6	1334.2	2007.2	2910.3	3661.0	4079.8	4079.3	3918.5	4083.7	3304.2
70°	583.5	623.1	788.3	1240.8	2264.2	3421.0	4121.3	4135.5	3835.9	3773.4	2734.4
72.5°	225.8	258.5	446.7	659.3	1180.7	2620.5	3545.1	3586.7	3210.4	2910.8	1903.1
75°	67.4	75.3	210.1	350.9	474.1	1265.8	2400.1	2411.8	2202.1	1815.6	975.5
77.5°	50.3	55.7	91.9	177.4	166.2	383.6	1241.8	1356.2	1169.0	648.5	268.8
80°	34.2	40.6	65.5	86.5	61.6	102.1	348.9	383.2	356.8	145.6	67.4
82.5°	15.2	19.5	46.4	43.5	22.5	29.3	107.5	114.4	73.8	44.0	23.5
85°	1.5	2.0	17.6	19.1	8.3	6.8	22.5	22.5	16.1	15.2	9.8
87.5°	0.0	0.0	0.5	1.0	1.0	1.5	2.0	2.4	2.9	3.9	4.9
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°	962.3	962.3	962.3	962.3	962.3	962.3	962.3	962.3	962.3	962.3	962.3
2.5°	971.1	965.2	972.5	978.4	979.9	969.1	962.8	953.5	951.5	952.0	949.6
5°	984.3	981.3	986.7	980.4	963.7	932.5	905.6	875.8	859.6	850.4	849.4
7.5°	1008.7	1007.2	1001.4	972.5	920.7	851.3	784.4	718.9	678.3	663.7	661.2
10°	1044.9	1041.9	1018.0	949.6	839.1	705.7	593.3	499.5	442.3	425.7	405.1
12.5°	1086.4	1080.5	1028.3	900.2	716.0	531.2	391.0	285.9	236.5	221.9	221.9
15°	1126.5	1113.8	1022.4	818.6	564.5	345.5	218.5	165.2	150.0	146.1	146.1
17.5°	1167.5	1143.1	999.4	707.2	390.0	204.3	145.6	135.4	133.4	133.9	134.4
20°	1206.1	1168.0	958.9	573.3	248.8	142.7	130.5	128.0	127.1	128.0	127.6
22.5°	1248.2	1191.0	897.3	427.1	161.8	128.5	124.1	122.2	121.2	122.7	122.7
25°	1289.7	1207.6	815.7	287.4	128.5	119.7	117.3	115.3	114.4	114.8	114.8
27.5°	1311.2	1201.3	708.6	183.3	115.3	110.9	108.5	106.1	104.6	104.1	104.6
30°	1325.9	1181.7	577.7	130.5	104.6	99.2	96.8	94.8	90.9	88.5	89.4
32.5°	1348.9	1162.2	435.4	109.5	95.8	87.5	83.6	78.7	73.3	70.9	70.9
35°	1376.2	1135.3	305.4	98.7	86.5	77.7	70.4	62.1	55.7	53.8	53.8
37.5°	1412.4	1109.9	203.3	91.4	78.7	69.4	59.1	49.4	42.5	41.5	41.1
40°	1466.6	1088.4	143.2	86.0	71.8	60.6	48.4	38.1	33.2	31.8	31.8
42.5°	1537.0	1066.4	113.4	80.6	66.0	52.3	38.6	30.3	26.4	25.4	24.9
45°	1624.0	1040.5	98.7	75.8	60.1	43.5	30.8	25.4	22.5	21.5	21.5
47.5°	1718.3	1005.3	91.9	69.4	53.3	35.2	25.9	22.0	20.5	20.0	19.5
50°	1811.2	957.9	86.0	63.5	45.5	28.8	22.5	20.0	19.1	18.6	18.6
52.5°	1892.3	902.7	78.7	56.7	37.1	24.9	20.0	18.6	17.6	16.6	16.1
55°	1961.7	842.5	69.4	48.9	30.3	22.0	18.6	17.1	16.1	15.2	14.7
57.5°	2051.1	808.3	55.7	39.6	24.9	19.5	17.1	15.6	14.7	13.2	13.2
60°	2150.3	783.4	41.5	31.3	21.5	18.1	15.6	14.2	13.2	11.7	11.7
62.5°	2230.0	746.3	32.7	25.4	18.6	16.1	14.2	12.7	11.7	10.3	10.3
65°	2260.3	669.5	26.9	20.0	15.2	14.2	12.7	11.7	10.3	8.8	8.8
67.5°	2123.5	516.1	22.5	16.1	12.7	12.2	11.2	10.8	8.8	7.8	7.3
70°	1681.7	314.7	18.6	13.2	10.8	10.3	10.3	9.3	7.8	7.3	6.8
72.5°	1152.4	162.3	15.2	10.8	9.3	9.3	8.8	8.3	7.3	6.8	6.8
75°	598.7	54.2	11.7	8.3	7.3	7.8	7.8	7.3	6.8	6.8	6.4
77.5°	171.5	24.4	8.8	6.4	5.9	5.9	6.4	6.4	6.4	5.9	5.9
80°	44.5	14.2	6.4	4.9	4.9	4.9	4.9	5.4	5.9	5.4	5.4
82.5°	18.1	7.8	4.4	3.9	3.9	3.9	3.9	4.4	4.9	4.9	4.9
85°	11.2	3.9	3.4	3.4	3.4	2.9	2.9	3.4	3.4	3.9	3.9
87.5°	6.8	2.9	2.9	2.9	2.9	2.4	2.4	2.4	2.4	2.4	2.4
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)