

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: P632833

Luminaire Tested: GWS-SA2D-740-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632833  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-740-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

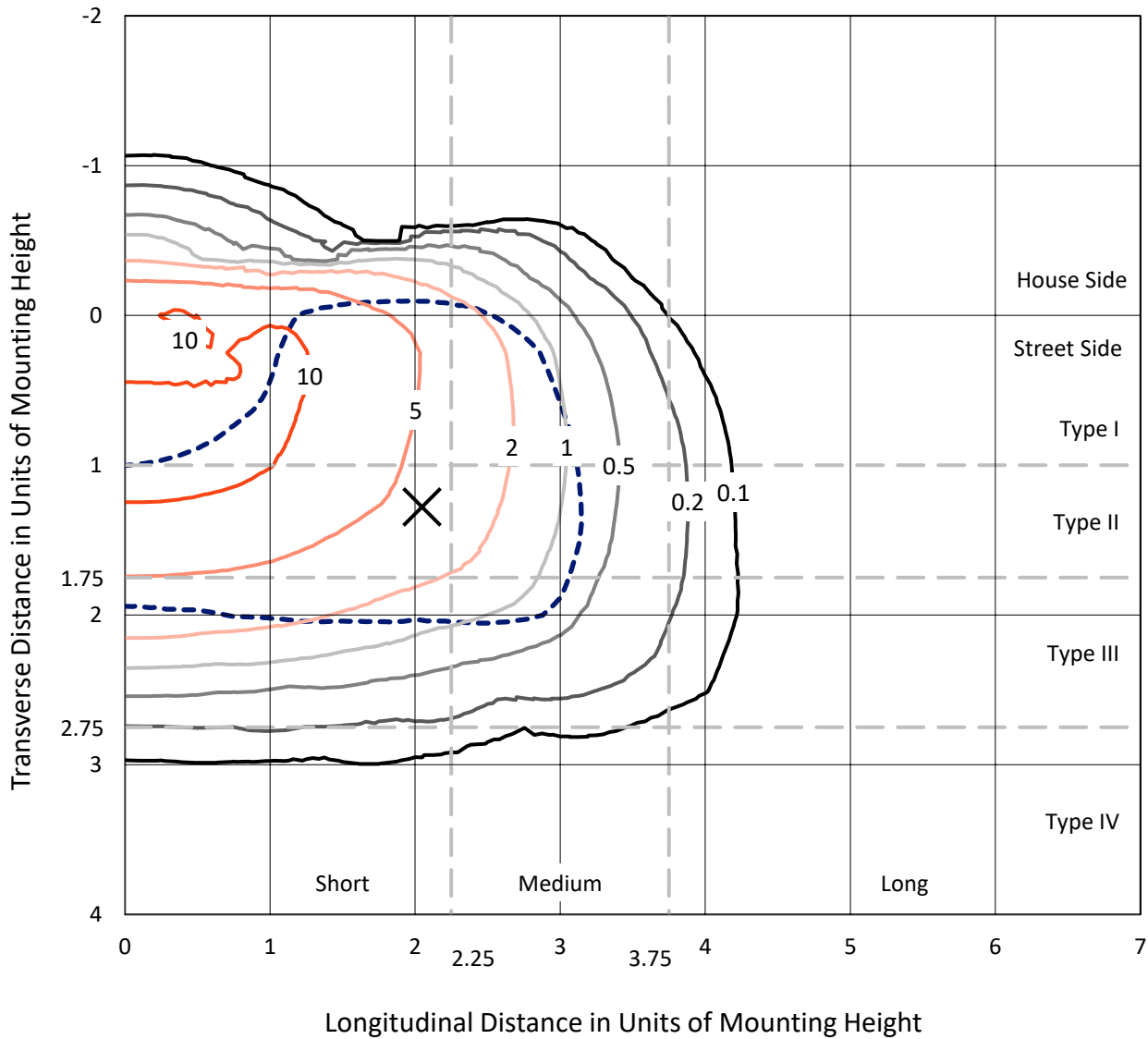
Lumens per Lamp: N/A  
Luminaire Lumens: 8572 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P632833  
 CATALOG NUMBER: GWS-SA2D-740-U-T3-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

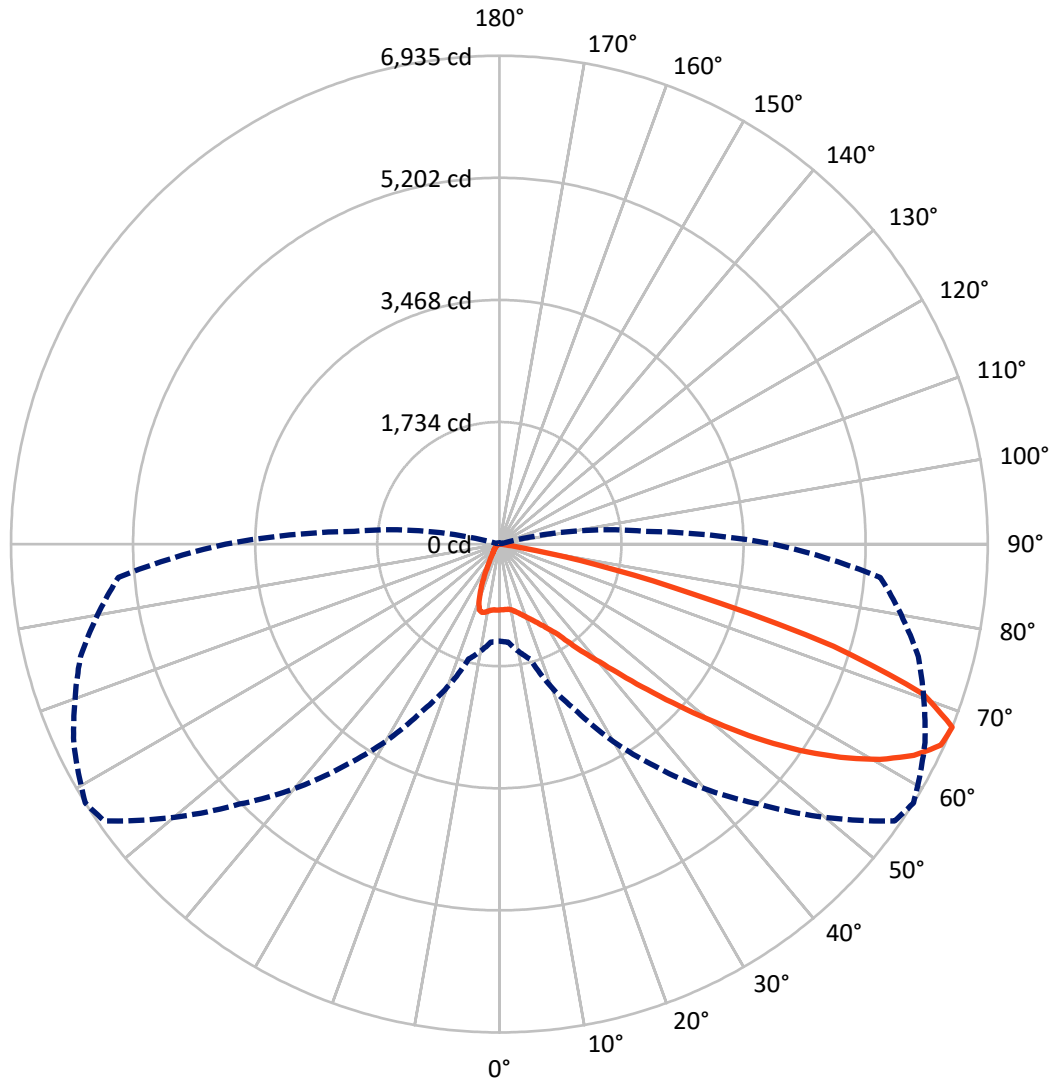
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 fc  
 Type III - Short - N/A

REPORT NUMBER: P632833  
CATALOG NUMBER: GWS-SA2D-740-U-T3-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P632833

CATALOG NUMBER: GWS-SA2D-740-U-T3-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	935.2	0.0	935.2
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	7636.8	0.0	7636.8
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	8572.0	0.0	8572.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.7	1.0
10°-20°	246.4	2.9
20°-30°	430.0	5.0
30°-40°	768.0	9.0
40°-50°	1403.8	16.4
50°-60°	2334.6	27.2
60°-70°	2535.8	29.6
70°-80°	744.5	8.7
80°-90°	21.2	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°	8572.0	100.0
0°-180°	8572.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P632833

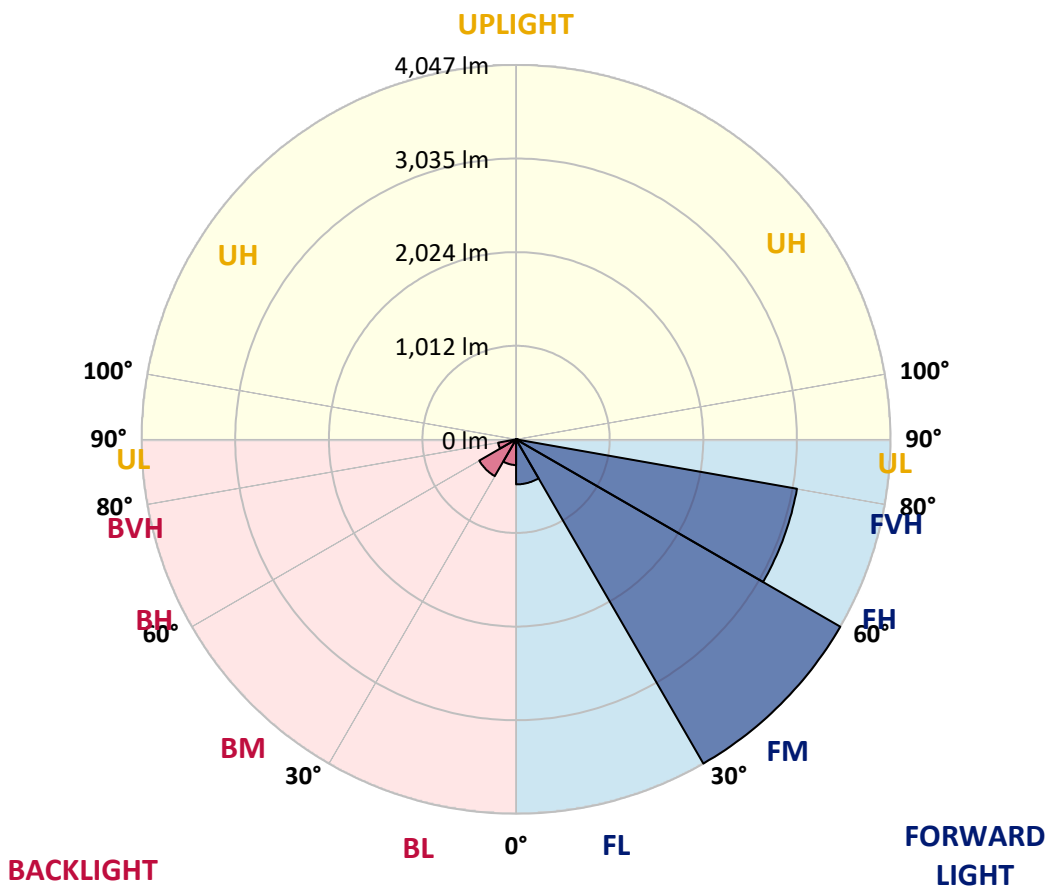
CATALOG NUMBER: GWS-SA2D-740-U-T3-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.8	5.7			
FM (30°-60°)	4047.0	47.2			
FH (60°-80°)	3082.9	36.0			G2/5000
FVH (80°-90°)	20.2	0.2			G1/100
BL (0°-30°)	277.4	3.2	B1/500		
BM (30°-60°)	459.3	5.4	B1/1000		
BH (60°-80°)	197.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	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 Short





REPORT NUMBER: P632833

CATALOG NUMBER: GWS-SA2D-740-U-T3-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1
2.5°	916.5	914.8	914.8	921.5	922.4	925.7	933.3	934.1	938.3	936.6	930.7
5°	868.8	869.6	874.7	886.4	896.4	909.0	927.4	931.6	940.8	945.8	942.5
7.5°	824.4	825.3	832.8	851.2	870.5	895.6	925.7	934.1	952.5	965.9	966.7
10°	807.7	806.9	814.4	835.3	860.4	895.6	939.1	950.0	977.6	1001.1	1005.2
12.5°	812.7	811.9	819.4	838.7	866.3	910.7	962.5	977.6	1012.8	1048.8	1056.3
15°	832.8	832.0	837.0	852.9	883.0	929.1	992.7	1015.3	1059.6	1103.2	1114.9
17.5°	893.1	888.9	883.9	885.5	903.1	950.8	1031.2	1058.8	1114.0	1165.9	1176.0
20°	1000.2	989.3	975.9	958.4	950.0	982.6	1075.5	1107.4	1174.3	1233.7	1235.4
22.5°	1161.8	1157.6	1126.6	1075.5	1039.6	1040.4	1127.4	1164.3	1246.3	1311.6	1302.4
25°	1386.9	1384.4	1336.7	1253.0	1159.2	1127.4	1193.6	1231.2	1331.7	1401.1	1371.8
27.5°	1666.5	1648.9	1592.8	1479.8	1340.0	1240.4	1277.3	1310.7	1422.1	1487.3	1432.1
30°	1910.0	1910.9	1858.1	1740.1	1582.8	1410.3	1379.4	1408.7	1504.9	1573.6	1506.6
32.5°	2144.4	2151.9	2094.2	1987.9	1815.5	1632.1	1525.9	1530.9	1611.2	1685.7	1604.5
35°	2362.0	2367.9	2327.7	2237.3	2076.6	1864.0	1730.1	1727.6	1771.1	1847.3	1741.0
37.5°	2605.6	2611.4	2572.1	2490.9	2340.3	2129.3	1961.9	1958.6	1976.2	2038.1	1916.7
40°	2865.1	2875.9	2832.4	2763.8	2619.8	2441.5	2231.4	2201.3	2183.7	2256.6	2144.4
42.5°	3127.9	3144.6	3129.5	3060.9	2937.9	2790.6	2581.3	2534.4	2496.8	2588.0	2469.1
45°	3454.3	3474.4	3467.7	3415.0	3319.5	3199.9	3002.3	2947.9	2930.3	3014.9	2873.4
47.5°	3768.2	3789.9	3814.2	3802.5	3734.7	3679.5	3460.2	3429.2	3424.2	3514.6	3295.3
50°	4001.7	4021.8	4114.7	4181.7	4227.7	4216.0	4026.0	3979.9	3972.4	4030.2	3740.6
52.5°	4169.1	4188.3	4316.4	4525.7	4694.7	4786.8	4595.1	4585.1	4544.1	4524.0	4157.4
55°	4298.8	4325.6	4460.4	4776.8	5117.4	5321.6	5202.0	5166.0	5060.5	4945.0	4544.1
57.5°	4324.8	4335.7	4525.7	4952.5	5445.5	5776.1	5776.1	5713.4	5510.0	5350.1	4991.0
60°	4092.1	4125.6	4382.5	4938.3	5586.1	6073.3	6252.4	6208.9	5934.3	5737.6	5421.2
62.5°	3575.7	3613.3	3926.4	4597.6	5445.5	6134.4	6613.1	6606.4	6296.8	6058.2	5777.8
65°	2742.0	2769.6	3042.5	3846.0	4851.3	5899.2	6870.9	6889.3	6583.0	6270.0	5900.8
67.5°	1377.7	1397.0	1691.6	2627.3	3845.2	5222.0	6853.4	6935.4	6670.1	6157.8	5431.3
70°	481.3	500.5	639.5	1127.4	2340.3	3987.5	6260.8	6394.7	6158.6	5256.4	4006.7
72.5°	164.9	174.1	265.3	418.5	910.7	2363.7	4760.9	4962.6	4539.9	3528.8	2302.6
75°	93.7	99.6	142.3	226.8	381.7	777.6	2701.0	2824.9	2646.6	1923.4	947.5
77.5°	63.6	68.6	88.7	128.9	210.9	250.3	1101.5	1386.9	1209.5	627.7	241.9
80°	37.7	41.0	54.4	76.2	108.0	97.1	236.0	313.9	404.3	187.5	72.8
82.5°	17.6	20.1	35.2	50.2	54.4	41.0	69.5	84.5	113.8	92.1	30.1
85°	0.0	0.0	11.7	20.9	20.1	11.7	19.3	20.9	31.0	46.0	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.5	5.0	9.2	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P632833  
 CATALOG NUMBER: GWS-SA2D-740-U-T3-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1
2.5°	937.4	931.6	938.3	934.9	938.3	937.4	930.7	926.6	926.6	919.0	916.5
5°	949.2	943.3	945.0	937.4	935.8	931.6	923.2	919.9	919.9	912.3	909.8
7.5°	975.1	965.9	964.2	949.2	942.5	930.7	915.7	909.8	909.0	901.4	898.9
10°	1016.1	1005.2	997.7	978.5	959.2	935.8	904.0	877.2	862.1	842.0	840.3
12.5°	1066.3	1052.9	1041.2	1011.9	980.1	927.4	833.7	735.7	675.5	627.7	631.1
15°	1122.4	1109.9	1091.4	1047.1	981.8	844.5	648.7	498.0	424.4	385.0	383.3
17.5°	1183.5	1165.1	1135.0	1074.7	929.1	645.3	421.8	298.0	259.5	246.1	242.7
20°	1240.4	1217.8	1180.2	1080.6	776.7	436.9	263.7	231.0	224.3	220.1	220.1
22.5°	1300.7	1272.2	1216.2	1035.4	577.5	279.6	224.3	216.8	211.8	205.9	205.1
25°	1361.8	1325.0	1248.8	917.4	378.3	220.1	210.1	201.7	192.5	183.3	180.8
27.5°	1413.7	1366.0	1273.9	741.6	242.7	198.4	191.7	177.4	164.9	154.8	153.2
30°	1475.6	1414.5	1284.8	542.4	190.8	174.9	164.9	149.8	134.8	124.7	121.4
32.5°	1558.5	1491.5	1268.1	353.2	169.1	154.0	138.1	120.5	105.5	94.6	92.9
35°	1687.4	1607.9	1191.1	225.2	153.2	133.1	113.8	95.4	82.9	74.5	72.8
37.5°	1844.7	1771.1	1064.7	169.1	137.3	115.5	92.9	75.3	66.1	60.3	58.6
40°	2078.3	1975.3	908.1	148.1	121.4	97.9	76.2	61.9	55.2	50.2	48.5
42.5°	2381.3	2216.4	728.2	134.8	106.3	82.0	61.9	51.1	45.2	41.8	41.0
45°	2735.3	2451.6	538.2	121.4	92.1	67.8	51.1	41.8	37.7	35.2	34.3
47.5°	3097.7	2657.5	371.6	107.1	78.7	56.1	42.7	36.0	32.6	29.3	28.5
50°	3484.4	2831.6	253.6	92.9	67.0	46.0	36.8	32.6	28.5	25.9	25.1
52.5°	3768.2	2896.0	176.6	80.4	56.9	39.3	32.6	29.3	25.9	22.6	21.8
55°	4030.2	2894.3	133.9	67.8	48.5	34.3	29.3	25.9	22.6	20.1	19.3
57.5°	4291.3	2871.7	105.5	57.8	41.8	31.0	25.9	22.6	20.9	17.6	16.7
60°	4460.4	2786.4	82.0	48.5	36.0	26.8	22.6	20.1	17.6	15.1	14.2
62.5°	4549.9	2667.5	62.8	38.5	29.3	23.4	20.1	17.6	15.1	12.6	11.7
65°	4428.6	2456.6	49.4	30.1	22.6	20.1	16.7	14.2	11.7	9.2	8.4
67.5°	3890.4	2071.6	38.5	24.3	17.6	15.1	14.2	11.7	8.4	6.7	5.9
70°	2749.5	1418.7	30.1	18.4	13.4	11.7	10.9	9.2	6.7	5.0	4.2
72.5°	1509.1	715.6	21.8	13.4	10.0	9.2	8.4	7.5	5.9	4.2	4.2
75°	580.9	196.7	15.9	9.2	6.7	6.7	5.9	5.9	5.0	3.3	3.3
77.5°	151.5	58.6	10.0	5.9	4.2	4.2	4.2	3.3	3.3	2.5	2.5
80°	48.5	19.3	5.9	4.2	3.3	2.5	2.5	1.7	2.5	1.7	1.7
82.5°	15.9	6.7	3.3	3.3	2.5	1.7	1.7	0.8	0.8	0.0	0.0
85°	5.9	3.3	2.5	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0
87.5°	3.3	1.7	1.7	1.7	1.7	0.8	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)