

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: P633108

Luminaire Tested: GWS-SA2E-722-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633108  
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-SA2E-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

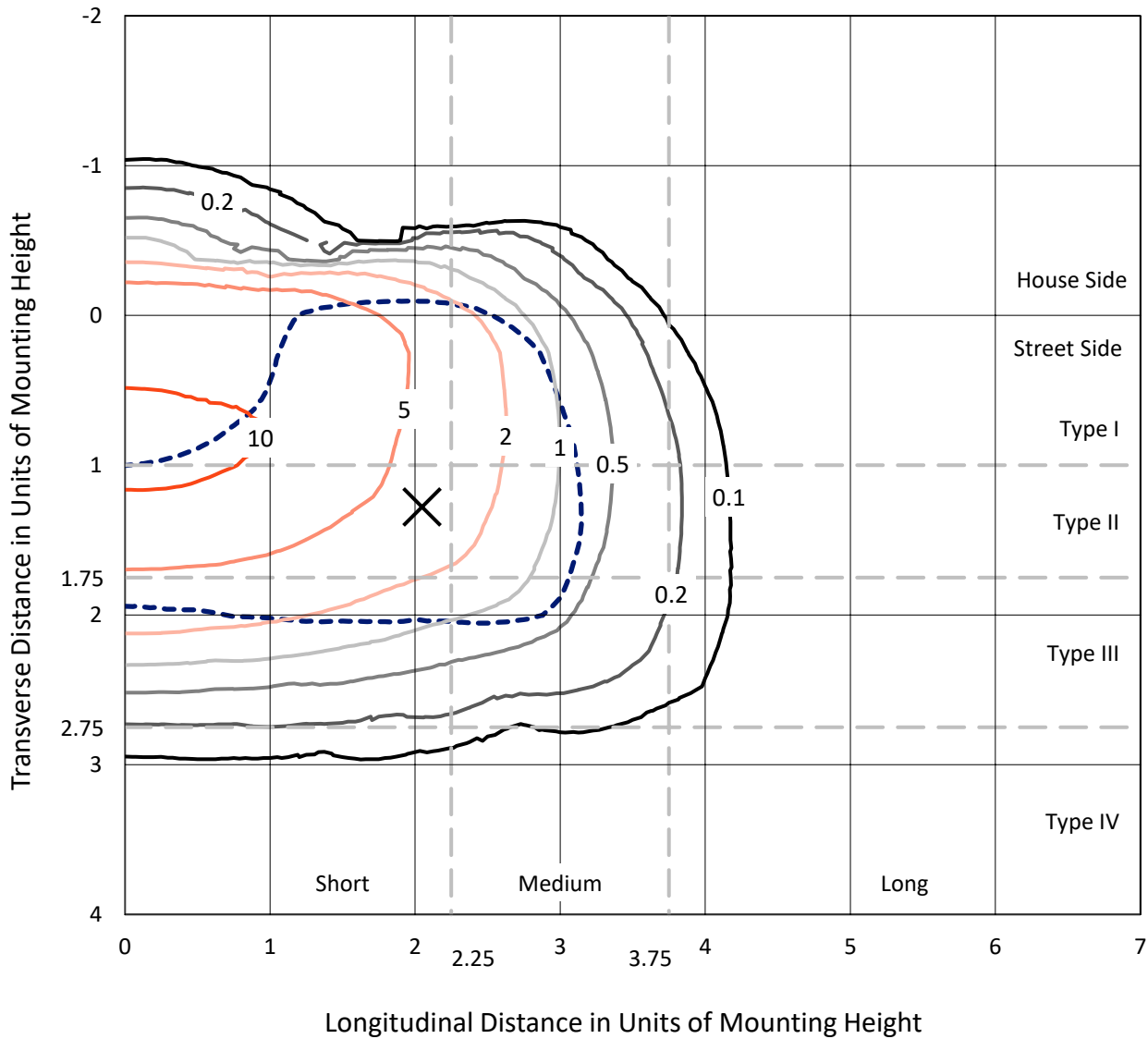
Lumens per Lamp: N/A  
Luminaire Lumens: 7890.4 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

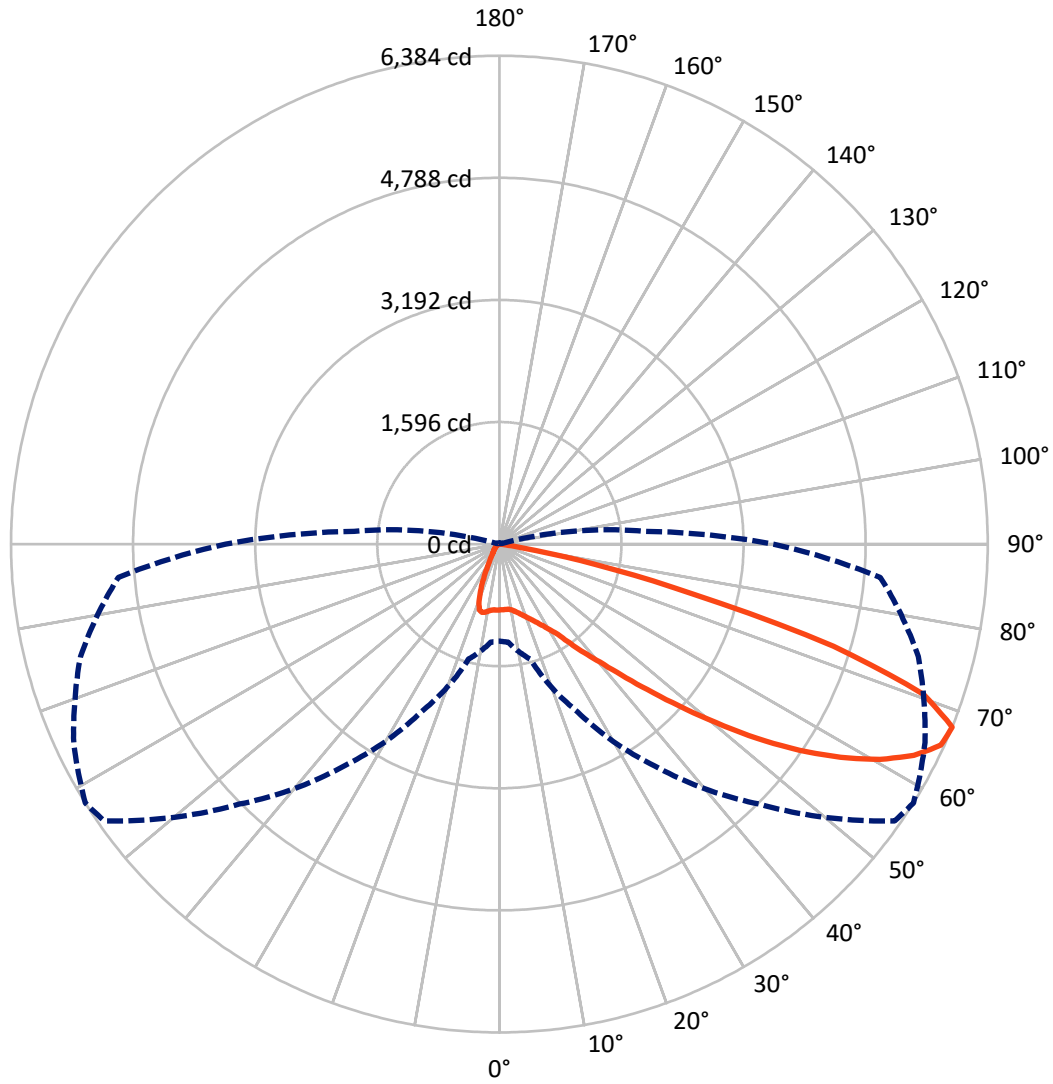
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	860.8	0.0	860.8
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	7029.6	0.0	7029.6
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	7890.4	0.0	7890.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	1.0
10°-20°	226.8	2.9
20°-30°	395.8	5.0
30°-40°	706.9	9.0
40°-50°	1292.1	16.4
50°-60°	2149.0	27.2
60°-70°	2334.1	29.6
70°-80°	685.3	8.7
80°-90°	19.5	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°	7890.4	100.0
0°-180°	7890.4	100.0

**Coefficient of Utilization**



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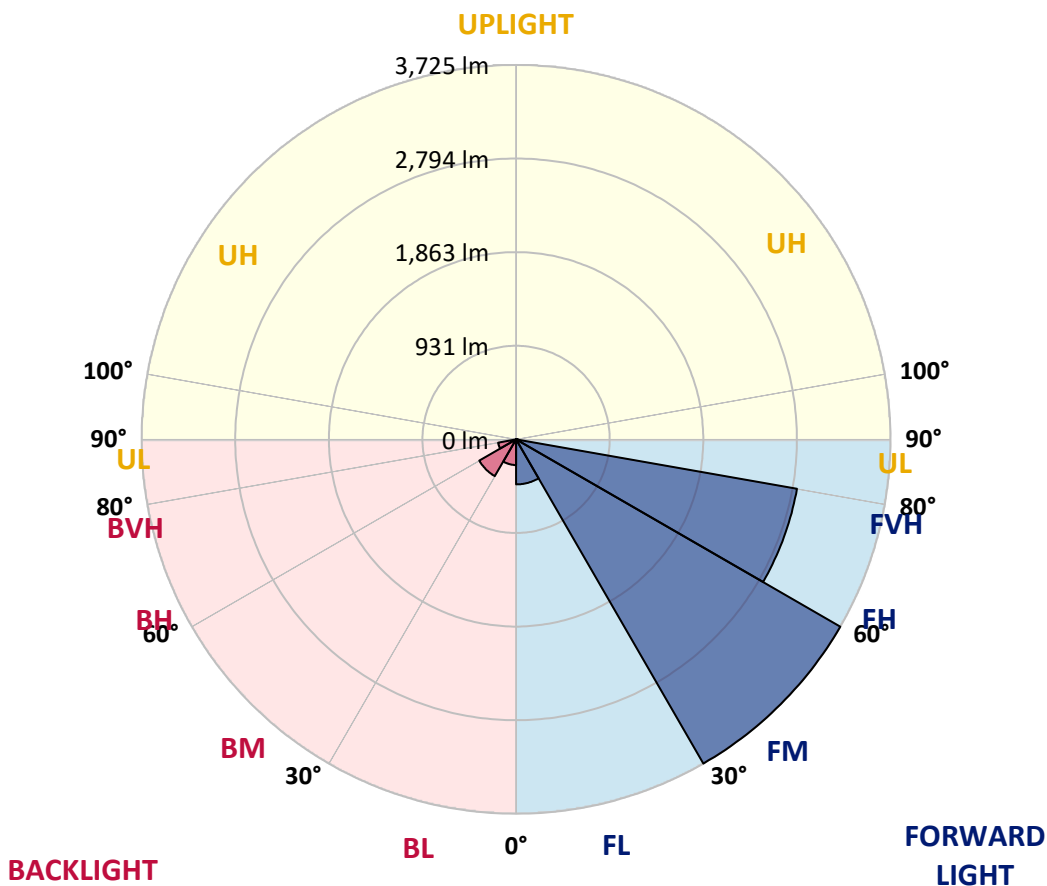
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.1	5.7			
FM (30°-60°)	3725.2	47.2			
FH (60°-80°)	2837.7	36.0			G2/5000
FVH (80°-90°)	18.6	0.2			G1/100
BL (0°-30°)	255.3	3.2	B1/500		
BM (30°-60°)	422.8	5.4	B1/1000		
BH (60°-80°)	181.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	859.8	859.8	859.8	859.8	859.8	859.8	859.8	859.8	859.8	859.8	859.8
2.5°	843.6	842.1	842.1	848.3	849.0	852.1	859.0	859.8	863.7	862.1	856.7
5°	799.7	800.5	805.1	815.9	825.1	836.7	853.7	857.5	866.0	870.6	867.5
7.5°	758.9	759.7	766.6	783.5	801.3	824.4	852.1	859.8	876.8	889.1	889.9
10°	743.5	742.7	749.6	768.9	792.0	824.4	864.4	874.5	899.9	921.5	925.3
12.5°	748.1	747.3	754.3	772.0	797.4	838.2	886.0	899.9	932.2	965.4	972.3
15°	766.6	765.8	770.4	785.1	812.8	855.2	913.7	934.6	975.4	1015.4	1026.2
17.5°	822.1	818.2	813.6	815.1	831.3	875.2	949.2	974.6	1025.5	1073.2	1082.5
20°	920.7	910.7	898.3	882.2	874.5	904.5	990.0	1019.3	1080.9	1135.6	1137.2
22.5°	1069.4	1065.5	1037.0	990.0	956.9	957.7	1037.8	1071.7	1147.2	1207.3	1198.8
25°	1276.6	1274.3	1230.4	1153.4	1067.1	1037.8	1098.7	1133.3	1225.8	1289.7	1262.8
27.5°	1534.0	1517.8	1466.2	1362.1	1233.5	1141.8	1175.7	1206.5	1309.0	1369.1	1318.2
30°	1758.2	1758.9	1710.4	1601.8	1456.9	1298.2	1269.7	1296.7	1385.3	1448.4	1386.8
32.5°	1973.9	1980.8	1927.7	1829.8	1671.1	1502.4	1404.5	1409.1	1483.1	1551.7	1476.9
35°	2174.2	2179.6	2142.6	2059.4	1911.5	1715.8	1592.5	1590.2	1630.3	1700.4	1602.5
37.5°	2398.4	2403.8	2367.6	2292.8	2154.2	1960.0	1805.9	1802.8	1819.0	1876.0	1764.3
40°	2637.2	2647.3	2607.2	2544.0	2411.5	2247.4	2054.0	2026.3	2010.1	2077.1	1973.9
42.5°	2879.2	2894.6	2880.7	2817.5	2704.3	2568.7	2376.1	2332.9	2298.2	2382.2	2272.8
45°	3179.6	3198.1	3192.0	3143.4	3055.6	2945.4	2763.6	2713.5	2697.3	2775.1	2644.9
47.5°	3468.5	3488.6	3510.9	3500.1	3437.7	3386.9	3185.0	3156.5	3151.9	3235.1	3033.2
50°	3683.5	3702.0	3787.5	3849.1	3891.5	3880.7	3705.8	3663.5	3656.5	3709.7	3443.1
52.5°	3837.6	3855.3	3973.2	4165.8	4321.4	4406.2	4229.7	4220.5	4182.8	4164.3	3826.8
55°	3957.0	3981.7	4105.7	4396.9	4710.5	4898.5	4788.3	4755.2	4658.1	4551.8	4182.8
57.5°	3980.9	3990.9	4165.8	4558.7	5012.5	5316.8	5316.8	5259.1	5071.8	4924.7	4594.2
60°	3766.7	3797.5	4034.1	4545.6	5142.0	5590.4	5755.2	5715.2	5462.5	5281.4	4990.2
62.5°	3291.3	3326.0	3614.2	4232.1	5012.5	5646.6	6087.3	6081.1	5796.1	5576.5	5318.4
65°	2524.0	2549.4	2800.6	3540.2	4465.5	5430.1	6324.6	6341.5	6059.6	5771.4	5431.6
67.5°	1268.2	1285.9	1557.1	2418.4	3539.4	4806.8	6308.4	6383.9	6139.7	5668.2	4999.4
70°	443.0	460.7	588.6	1037.8	2154.2	3670.4	5762.9	5886.2	5668.9	4838.4	3688.1
72.5°	151.8	160.3	244.2	385.2	838.2	2175.7	4382.3	4568.0	4178.9	3248.2	2119.5
75°	86.3	91.7	131.0	208.8	351.3	715.7	2486.2	2600.3	2436.2	1770.5	872.1
77.5°	58.6	63.2	81.7	118.6	194.2	230.4	1013.9	1276.6	1113.3	577.8	222.7
80°	34.7	37.8	50.1	70.1	99.4	89.4	217.3	288.9	372.1	172.6	67.0
82.5°	16.2	18.5	32.4	46.2	50.1	37.8	63.9	77.8	104.8	84.7	27.7
85°	0.0	0.0	10.8	19.3	18.5	10.8	17.7	19.3	28.5	42.4	10.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	1.5	2.3	4.6	8.5	4.6
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°	859.8	859.8	859.8	859.8	859.8	859.8	859.8	859.8	859.8	859.8	859.8
2.5°	862.9	857.5	863.7	860.6	863.7	862.9	856.7	852.9	852.9	845.9	843.6
5°	873.7	868.3	869.8	862.9	861.4	857.5	849.8	846.7	846.7	839.8	837.5
7.5°	897.6	889.1	887.6	873.7	867.5	856.7	842.9	837.5	836.7	829.8	827.5
10°	935.3	925.3	918.4	900.7	882.9	861.4	832.1	807.4	793.6	775.1	773.5
12.5°	981.5	969.2	958.4	931.5	902.2	853.7	767.4	677.2	621.8	577.8	580.9
15°	1033.2	1021.6	1004.7	963.8	903.7	777.4	597.1	458.4	390.6	354.4	352.9
17.5°	1089.4	1072.5	1044.7	989.3	855.2	594.0	388.3	274.3	238.8	226.5	223.4
20°	1141.8	1121.0	1086.3	994.6	715.0	402.2	242.7	212.6	206.5	202.6	202.6
22.5°	1197.3	1171.1	1119.5	953.0	531.6	257.3	206.5	199.5	194.9	189.5	188.8
25°	1253.5	1219.6	1149.5	844.4	348.2	202.6	193.4	185.7	177.2	168.7	166.4
27.5°	1301.3	1257.4	1172.6	682.6	223.4	182.6	176.4	163.3	151.8	142.5	141.0
30°	1358.3	1302.1	1182.6	499.2	175.7	161.0	151.8	137.9	124.0	114.8	111.7
32.5°	1434.6	1372.9	1167.2	325.1	155.6	141.8	127.1	110.9	97.1	87.1	85.5
35°	1553.2	1480.0	1096.3	207.3	141.0	122.5	104.8	87.8	76.3	68.6	67.0
37.5°	1698.1	1630.3	980.0	155.6	126.4	106.3	85.5	69.3	60.9	55.5	53.9
40°	1913.0	1818.3	835.9	136.4	111.7	90.1	70.1	57.0	50.8	46.2	44.7
42.5°	2191.9	2040.1	670.3	124.0	97.8	75.5	57.0	47.0	41.6	38.5	37.8
45°	2517.8	2256.6	495.4	111.7	84.7	62.4	47.0	38.5	34.7	32.4	31.6
47.5°	2851.4	2446.2	342.1	98.6	72.4	51.6	39.3	33.1	30.0	27.0	26.2
50°	3207.4	2606.4	233.4	85.5	61.6	42.4	33.9	30.0	26.2	23.9	23.1
52.5°	3468.5	2665.7	162.6	74.0	52.4	36.2	30.0	27.0	23.9	20.8	20.0
55°	3709.7	2664.2	123.3	62.4	44.7	31.6	27.0	23.9	20.8	18.5	17.7
57.5°	3950.1	2643.4	97.1	53.2	38.5	28.5	23.9	20.8	19.3	16.2	15.4
60°	4105.7	2564.8	75.5	44.7	33.1	24.7	20.8	18.5	16.2	13.9	13.1
62.5°	4188.1	2455.4	57.8	35.4	27.0	21.6	18.5	16.2	13.9	11.6	10.8
65°	4076.4	2261.3	45.5	27.7	20.8	18.5	15.4	13.1	10.8	8.5	7.7
67.5°	3581.0	1906.9	35.4	22.3	16.2	13.9	13.1	10.8	7.7	6.2	5.4
70°	2530.9	1305.9	27.7	16.9	12.3	10.8	10.0	8.5	6.2	4.6	3.9
72.5°	1389.1	658.7	20.0	12.3	9.2	8.5	7.7	6.9	5.4	3.9	3.9
75°	534.7	181.1	14.6	8.5	6.2	6.2	5.4	5.4	4.6	3.1	3.1
77.5°	139.5	53.9	9.2	5.4	3.9	3.9	3.9	3.1	3.1	2.3	2.3
80°	44.7	17.7	5.4	3.9	3.1	2.3	2.3	1.5	2.3	1.5	1.5
82.5°	14.6	6.2	3.1	3.1	2.3	1.5	1.5	0.8	0.8	0.0	0.0
85°	5.4	3.1	2.3	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0
87.5°	3.1	1.5	1.5	1.5	1.5	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)