

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: P632330

Luminaire Tested: GWS-SA2C-740-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632330  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-740-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

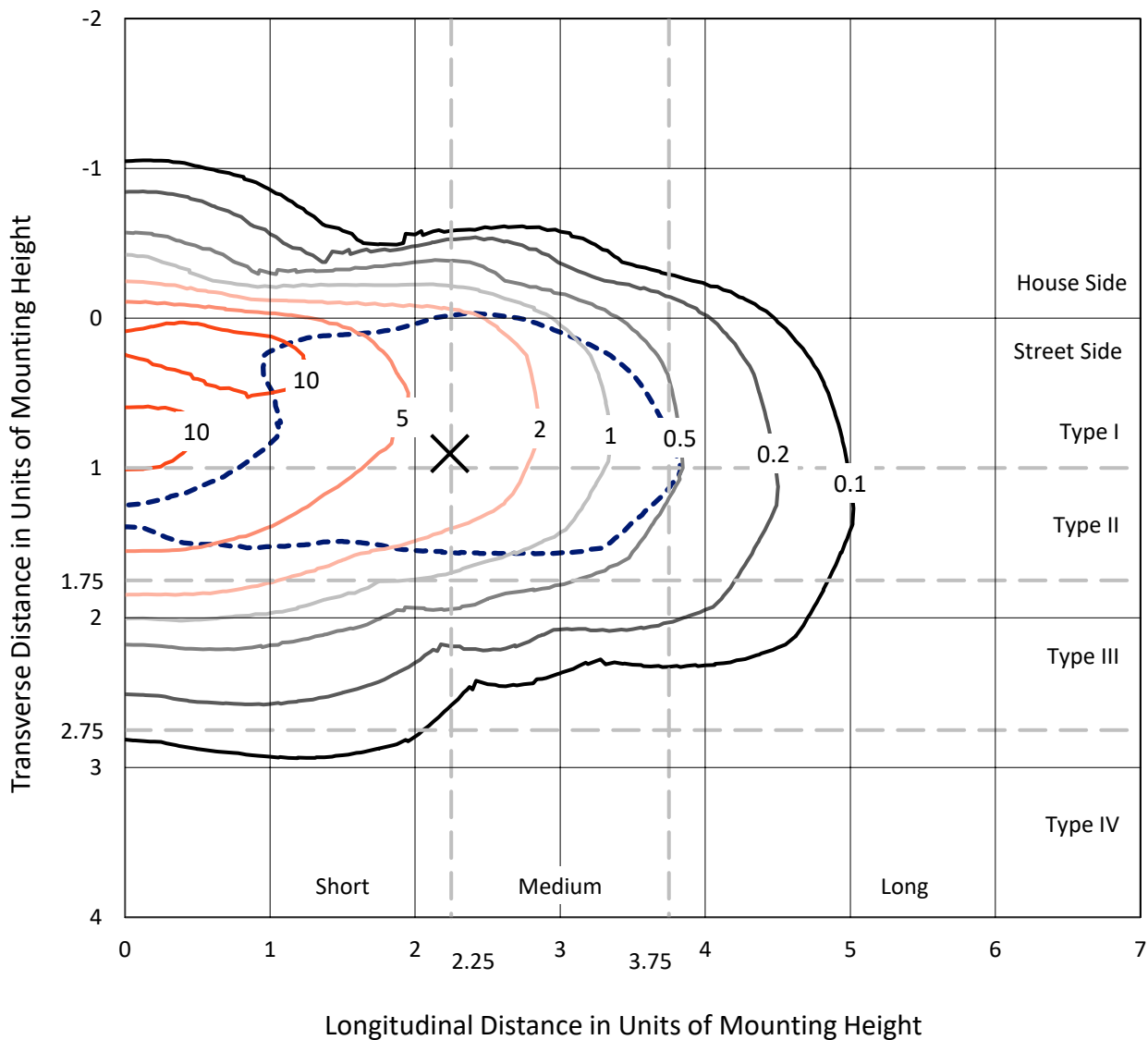
Lumens per Lamp: N/A  
Luminaire Lumens: 6932.8 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

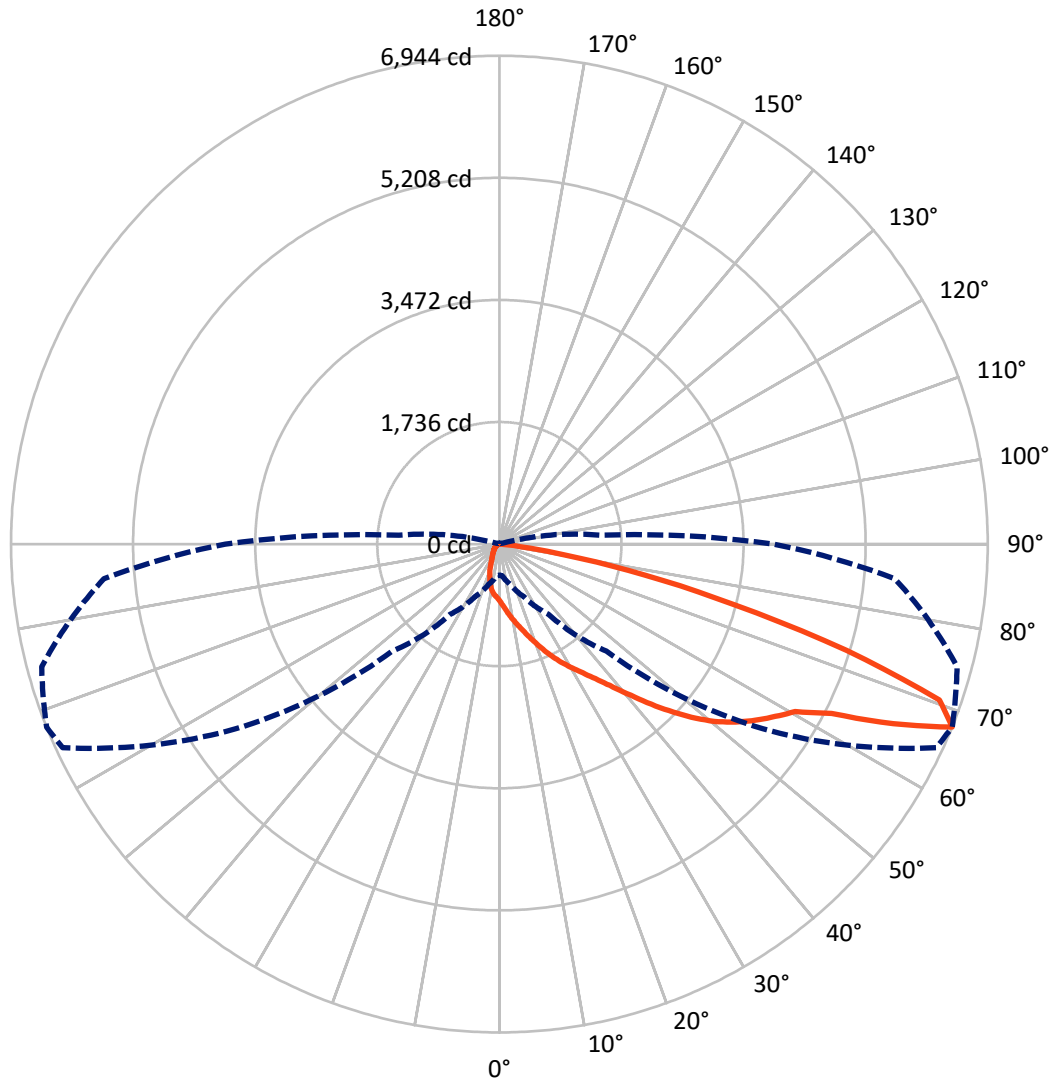
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	500.6	0.0	500.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	6432.2	0.0	6432.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	6932.8	0.0	6932.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	1.1
10°-20°	226.0	3.3
20°-30°	388.3	5.6
30°-40°	675.1	9.7
40°-50°	1178.1	17.0
50°-60°	1776.8	25.6
60°-70°	1781.7	25.7
70°-80°	786.1	11.3
80°-90°	42.0	0.6
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°	6932.8	100.0
0°-180°	6932.8	100.0

**Coefficient of Utilization**



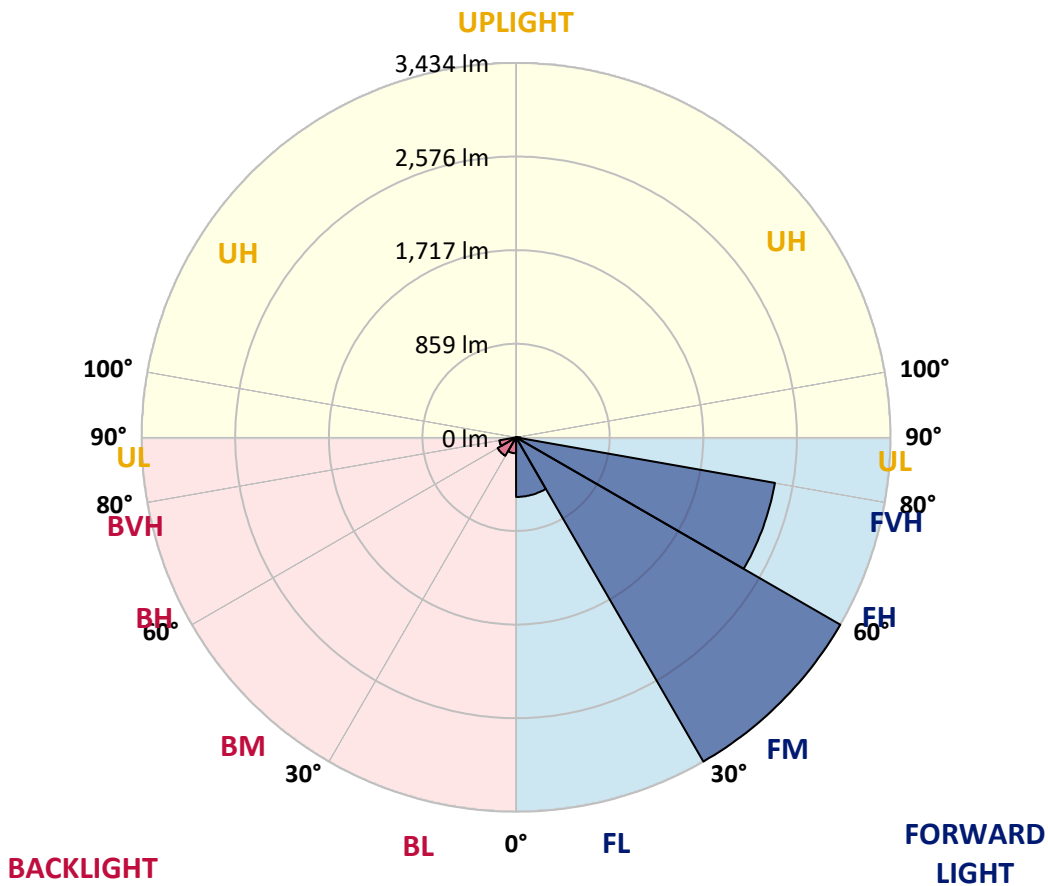
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.5	7.9			
FM (30°-60°)	3434.5	49.5			
FH (60°-80°)	2411.5	34.8			G2/5000
FVH (80°-90°)	39.6	0.6			G1/100
BL (0°-30°)	146.5	2.1	B1/500		
BM (30°-60°)	195.6	2.8	B0/220		
BH (60°-80°)	156.2	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8
2.5°	939.5	945.5	939.5	940.8	923.6	915.6	898.4	874.5	868.5	853.2	830.0
5°	1054.3	1059.6	1053.6	1052.3	1032.4	1017.8	989.3	948.1	936.2	906.3	860.5
7.5°	1116.7	1120.0	1122.0	1125.3	1118.0	1106.0	1080.2	1029.1	1016.5	968.0	903.7
10°	1123.3	1125.9	1135.9	1155.8	1170.4	1177.7	1163.1	1116.0	1096.1	1049.0	956.7
12.5°	1104.7	1108.7	1124.6	1157.8	1198.3	1235.4	1244.7	1203.6	1185.7	1125.3	1019.1
15°	1080.2	1083.5	1105.4	1150.5	1211.5	1279.9	1318.4	1300.4	1280.5	1217.5	1088.1
17.5°	1042.3	1047.0	1077.5	1138.5	1217.5	1315.0	1398.0	1403.9	1390.0	1321.7	1164.4
20°	1021.1	1024.4	1051.6	1114.7	1213.5	1340.9	1472.3	1528.7	1513.4	1441.8	1252.0
22.5°	1039.0	1041.7	1059.6	1108.7	1200.3	1355.5	1541.3	1653.4	1644.8	1570.5	1344.2
25°	1133.2	1141.9	1131.2	1139.9	1206.2	1363.5	1597.0	1778.1	1780.1	1705.2	1439.8
27.5°	1324.3	1313.0	1287.8	1244.7	1252.7	1384.7	1644.8	1895.6	1912.8	1836.5	1524.7
30°	1518.7	1512.1	1496.8	1429.8	1374.1	1431.8	1685.3	2015.7	2042.9	1965.9	1600.3
32.5°	1737.0	1743.6	1716.4	1636.2	1541.3	1527.3	1727.1	2129.8	2180.9	2112.5	1689.2
35°	1997.8	1999.8	1946.0	1857.1	1749.6	1685.3	1802.0	2255.9	2350.1	2299.7	1808.0
37.5°	2251.9	2263.8	2234.6	2094.6	1999.1	1881.7	1926.1	2417.8	2550.4	2530.5	1957.3
40°	2476.8	2495.4	2486.1	2350.7	2225.3	2126.5	2118.5	2607.5	2792.6	2815.2	2154.3
42.5°	2655.9	2667.9	2675.2	2579.0	2468.2	2412.4	2356.0	2827.8	3078.6	3170.8	2395.9
45°	2845.0	2849.0	2864.3	2799.3	2702.4	2707.0	2636.7	3095.2	3379.8	3564.9	2673.2
47.5°	3085.9	3099.2	3091.9	3023.5	2935.9	2988.4	2926.6	3370.5	3677.1	3985.6	2957.2
50°	3379.1	3393.1	3386.4	3306.8	3209.3	3231.2	3192.7	3637.9	3963.7	4382.3	3193.4
52.5°	3530.4	3541.7	3624.0	3659.8	3608.7	3469.4	3419.6	3931.8	4205.9	4708.8	3410.3
55°	3457.4	3465.4	3644.5	3795.8	3982.9	3843.6	3647.9	4158.7	4419.5	4963.6	3571.6
57.5°	3154.9	3198.0	3441.5	3697.6	4091.1	4213.2	4018.1	4405.6	4625.2	5140.7	3730.1
60°	2534.5	2532.5	2881.5	3341.3	3880.1	4314.7	4540.9	4739.3	4831.5	5276.7	3942.4
62.5°	1400.6	1413.2	1877.7	2483.4	3293.6	4051.9	4933.0	5315.9	5301.9	5514.3	4274.9
65°	697.3	722.5	974.7	1422.5	2191.5	3348.6	5000.7	6195.7	6155.8	6073.6	4961.6
67.5°	442.5	452.5	591.8	826.7	1218.2	2152.4	4579.4	6851.8	6944.1	6737.1	5643.0
70°	286.6	303.2	411.4	565.3	735.1	1109.4	3354.6	6426.5	6638.2	6664.1	5218.3
72.5°	155.9	167.9	262.7	403.4	530.8	554.7	1884.3	4822.9	5163.3	5652.9	4082.4
75°	88.9	97.5	144.0	274.0	389.5	337.7	835.3	3228.5	3445.5	4040.0	2925.3
77.5°	53.7	61.0	80.9	133.4	244.2	225.6	315.8	1965.3	2103.3	2410.5	1535.3
80°	24.5	29.2	51.1	73.6	133.4	106.8	120.8	916.3	946.1	989.3	508.2
82.5°	11.3	13.3	23.2	43.8	75.6	61.7	46.4	211.7	297.9	282.0	129.4
85°	1.3	1.3	8.6	17.9	21.2	15.9	19.2	47.8	60.4	84.9	37.2
87.5°	0.0	0.0	0.7	0.7	1.3	2.0	4.0	6.0	8.6	13.9	9.3
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°	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8
2.5°	819.4	800.8	784.2	759.7	743.1	724.5	711.9	696.7	690.7	686.0	679.4
5°	838.0	808.1	767.7	722.5	685.4	650.2	617.7	596.5	577.9	575.2	566.0
7.5°	868.5	824.1	755.7	682.1	619.0	560.6	514.9	477.7	459.1	453.2	442.5
10°	909.0	847.9	737.8	625.0	534.1	464.4	412.7	370.9	341.7	331.1	323.1
12.5°	954.1	869.8	709.3	554.7	451.2	371.6	305.9	261.4	242.8	236.2	230.2
15°	1005.8	890.4	664.2	484.3	370.2	273.4	226.9	207.7	199.7	197.7	195.7
17.5°	1055.6	903.7	610.4	411.4	284.6	212.3	190.4	183.1	181.1	179.1	177.8
20°	1112.0	913.0	547.4	342.4	220.9	179.8	169.2	163.9	159.9	155.9	155.3
22.5°	1169.7	913.0	479.0	274.7	185.1	161.2	149.3	139.3	132.0	128.1	126.7
25°	1224.8	900.4	411.4	219.6	163.2	143.3	128.1	116.8	106.8	102.2	100.9
27.5°	1263.9	867.8	352.3	185.8	148.0	127.4	108.8	96.2	88.2	83.6	82.9
30°	1288.5	819.4	297.9	165.9	134.7	110.8	92.2	81.6	75.6	72.3	71.0
32.5°	1307.1	759.7	249.5	151.9	122.1	96.2	80.3	71.7	66.3	63.7	63.0
35°	1344.2	703.3	213.6	139.3	108.8	84.3	70.3	63.7	59.7	56.4	55.7
37.5°	1396.0	656.2	185.1	128.1	96.2	75.0	63.7	57.7	54.4	51.1	50.4
40°	1472.3	626.3	163.9	116.8	84.9	67.7	58.4	53.1	48.4	45.1	44.5
42.5°	1589.7	612.4	149.9	105.5	75.0	61.0	53.7	47.1	42.5	39.1	38.5
45°	1729.7	619.7	138.0	94.2	68.3	56.4	47.8	41.1	36.5	33.2	32.5
47.5°	1879.7	645.6	128.1	83.6	61.7	51.8	42.5	35.2	31.2	27.9	27.2
50°	2036.2	688.0	119.4	73.6	56.4	46.4	36.5	30.5	26.5	23.9	23.2
52.5°	2172.3	745.8	110.8	66.3	51.8	41.1	31.8	26.5	22.6	19.9	19.2
55°	2302.3	800.2	104.2	59.7	46.4	35.8	27.9	22.6	19.2	16.6	15.9
57.5°	2443.6	857.9	96.2	53.7	41.8	31.8	24.5	19.2	16.6	13.9	13.3
60°	2649.3	943.5	84.3	49.1	36.5	27.9	21.2	17.3	14.6	11.3	10.6
62.5°	2945.9	1099.4	71.0	42.5	31.2	23.9	17.9	14.6	11.9	9.3	8.0
65°	3500.6	1364.8	58.4	35.2	25.2	19.9	15.3	11.9	9.3	6.6	6.0
67.5°	3900.0	1433.8	47.1	28.5	20.6	15.3	12.6	9.3	6.6	4.6	4.0
70°	3409.7	1029.7	36.5	23.2	17.3	11.9	10.0	7.3	4.6	3.3	2.7
72.5°	2569.0	672.8	27.2	17.9	13.3	10.0	7.3	6.0	4.0	2.7	2.0
75°	1810.7	388.8	19.9	13.3	9.3	7.3	6.0	4.6	3.3	2.0	2.0
77.5°	928.2	160.6	13.9	9.3	6.6	4.6	4.0	2.7	2.7	2.0	1.3
80°	282.0	53.1	8.0	6.0	4.6	3.3	2.0	2.0	2.0	1.3	0.7
82.5°	64.4	17.3	4.6	4.6	3.3	2.7	2.0	0.7	0.7	0.0	0.0
85°	16.6	5.3	4.0	3.3	3.3	2.7	1.3	0.7	0.0	0.0	0.0
87.5°	6.0	3.3	3.3	3.3	2.7	2.0	1.3	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)