

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: P631900

Luminaire Tested: GWS-SA2B-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-750-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

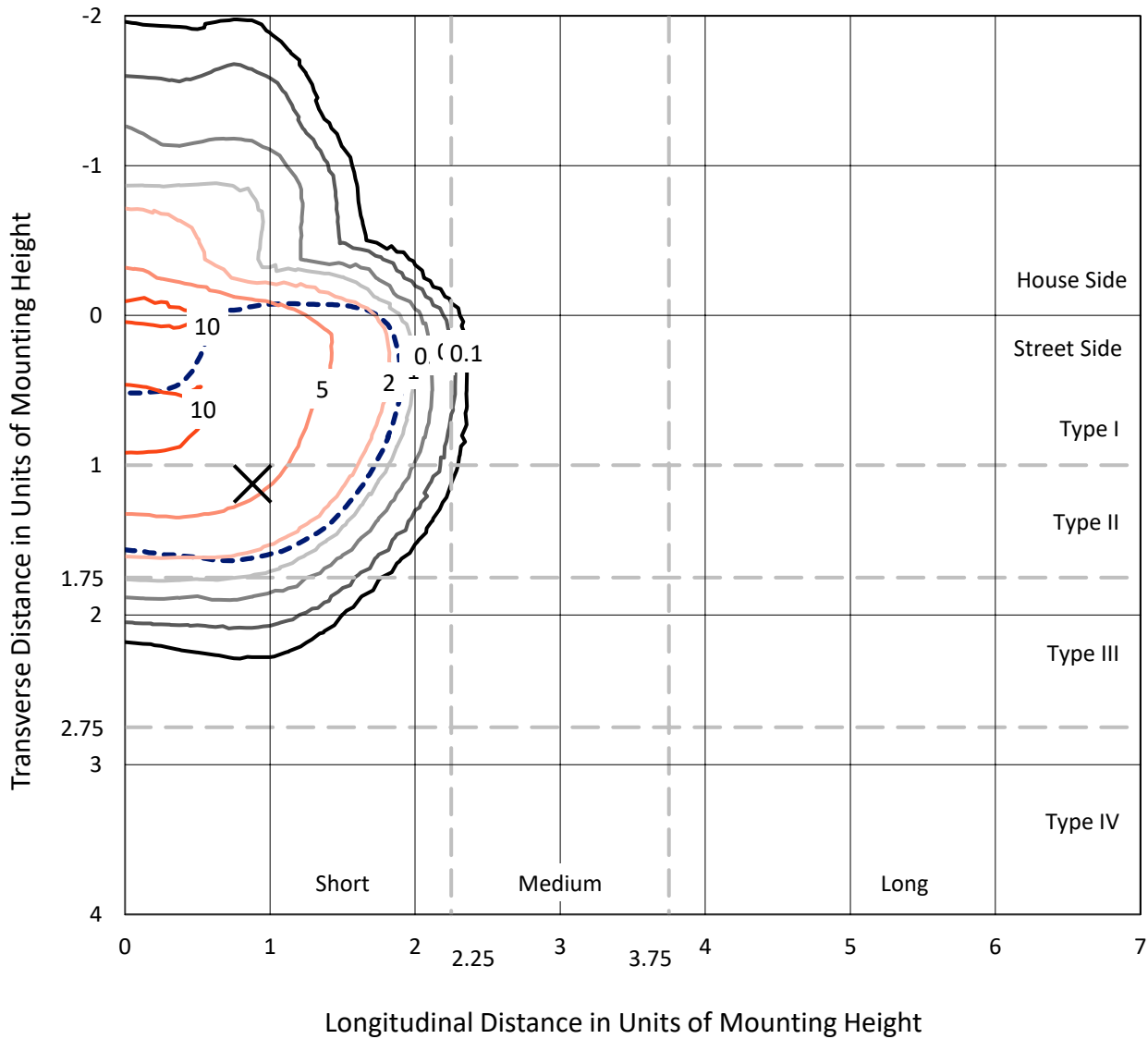
Lumens per Lamp: N/A  
Luminaire Lumens: 4427.6 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

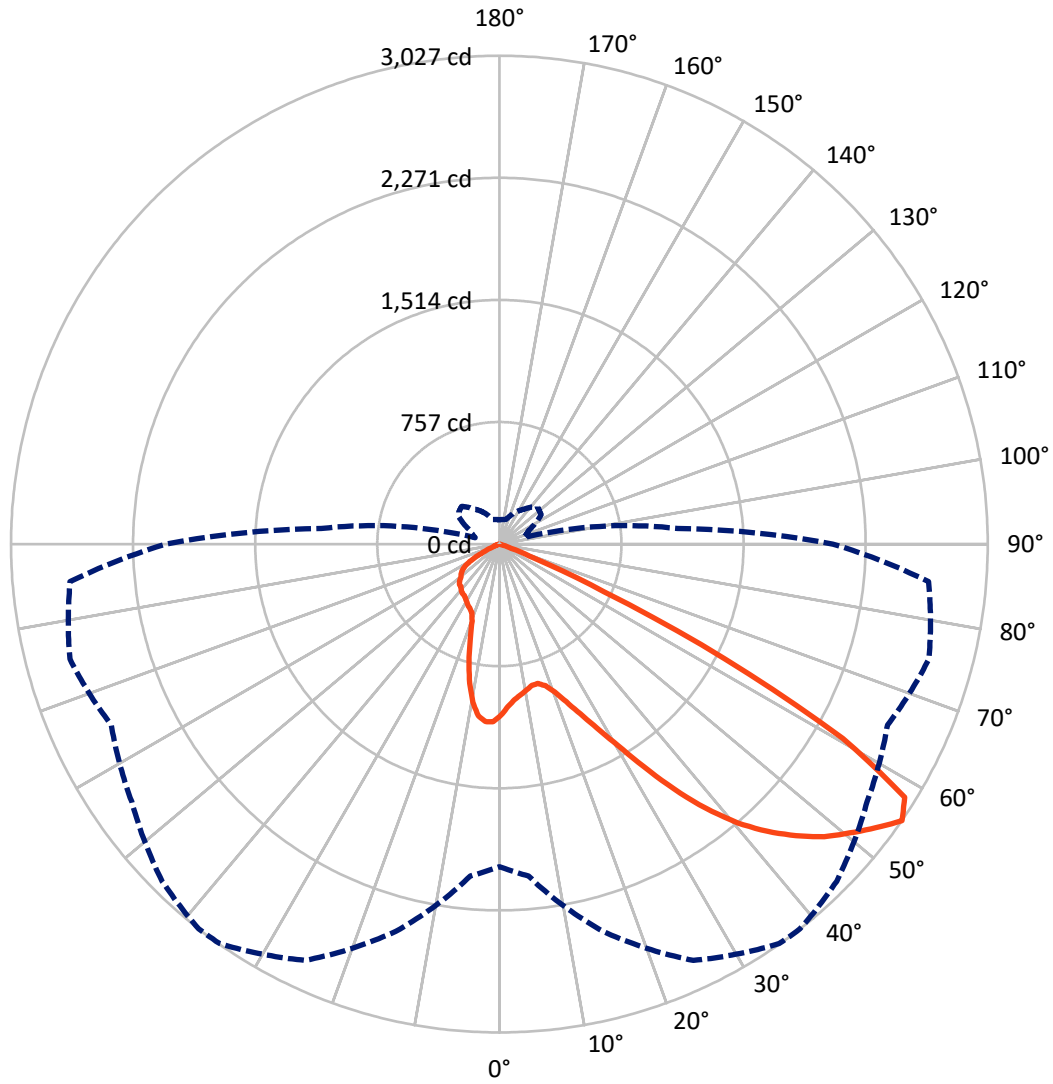
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	862.6	0.0	862.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	3565.0	0.0	3565.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	4427.6	0.0	4427.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.2	2.2
10°-20°	264.3	6.0
20°-30°	453.6	10.2
30°-40°	752.2	17.0
40°-50°	1105.8	25.0
50°-60°	1292.2	29.2
60°-70°	438.0	9.9
70°-80°	22.4	0.5
80°-90°	0.9	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°	4427.6	100.0
0°-180°	4427.6	100.0

**Coefficient of Utilization**



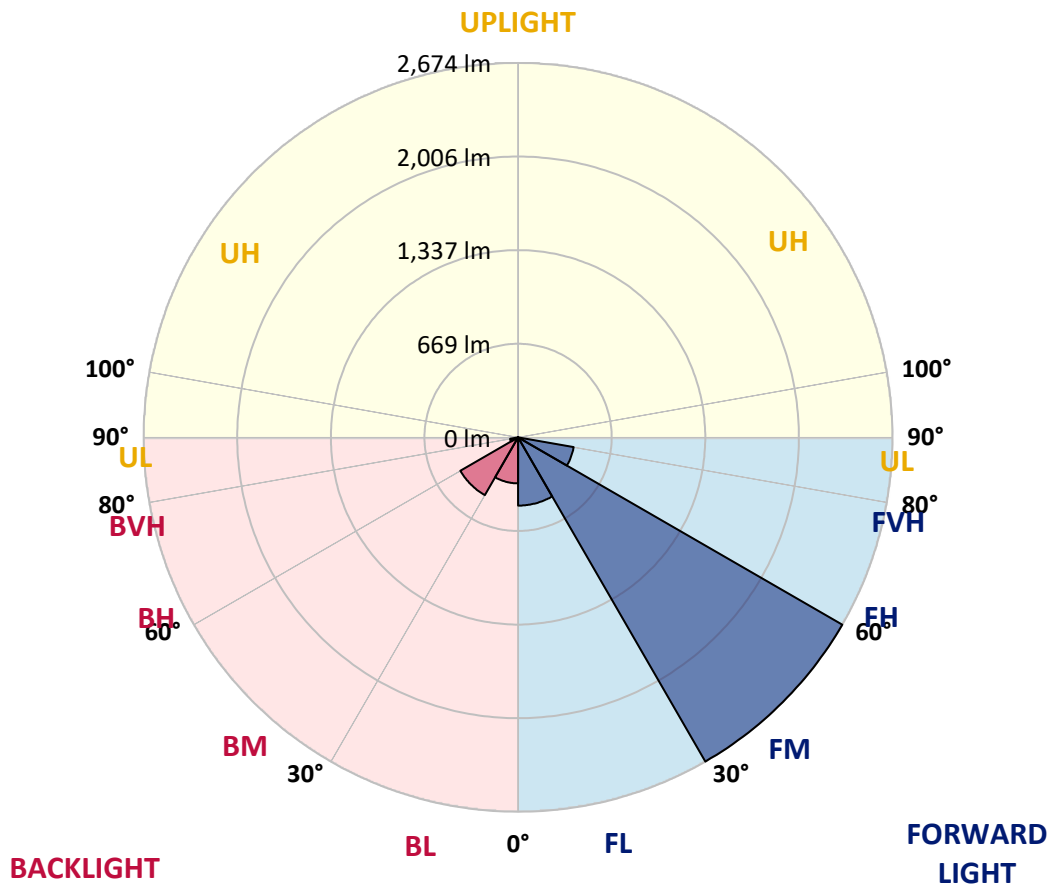
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.4	11.0			
FM (30°-60°)	2674.1	60.4			
FH (60°-80°)	403.0	9.1			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	328.7	7.4	B1/500		
BM (30°-60°)	476.1	10.8	B1/1000		
BH (60°-80°)	57.4	1.3	B0/110		G0/110
BVH (80°-90°)	0.4	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8
2.5°	988.9	986.9	990.9	999.0	1006.6	1009.1	1016.7	1027.4	1033.9	1049.6	1062.3
5°	944.4	943.3	947.4	954.5	964.6	968.1	979.8	997.5	1015.2	1042.5	1069.4
7.5°	903.9	903.4	909.4	925.1	939.8	944.4	958.5	980.3	1004.1	1046.1	1085.6
10°	850.7	851.2	862.9	885.1	912.0	921.1	943.9	975.2	1006.1	1060.3	1114.9
12.5°	833.5	834.5	840.6	857.8	887.2	898.8	930.7	978.3	1017.7	1080.5	1152.9
15°	875.5	875.5	870.5	872.5	885.7	896.3	929.7	988.4	1037.5	1104.8	1190.3
17.5°	957.0	954.0	941.3	924.1	919.6	923.1	949.9	1010.2	1065.3	1133.1	1232.8
20°	1067.3	1068.4	1043.6	1007.6	978.8	978.3	994.5	1048.6	1105.3	1167.0	1278.9
22.5°	1200.9	1196.9	1164.0	1114.9	1064.8	1060.8	1067.3	1107.3	1163.0	1220.7	1335.6
25°	1355.8	1353.8	1307.2	1241.4	1175.1	1165.5	1165.5	1205.0	1245.5	1297.1	1403.4
27.5°	1517.8	1517.8	1472.7	1396.8	1308.7	1291.5	1289.0	1335.6	1362.4	1372.5	1460.6
30°	1684.3	1682.2	1637.7	1559.8	1465.6	1447.9	1440.8	1475.2	1494.5	1464.1	1531.9
32.5°	1853.3	1856.8	1811.8	1739.4	1655.4	1643.8	1622.0	1622.0	1637.7	1595.2	1644.3
35°	2035.0	2034.0	1998.5	1949.5	1877.6	1864.4	1828.5	1772.3	1796.1	1777.4	1799.6
37.5°	2195.4	2203.0	2185.8	2149.4	2091.2	2078.0	2018.8	1917.1	1935.3	1964.6	1984.4
40°	2358.4	2364.4	2381.6	2370.0	2296.6	2272.3	2167.1	2000.1	2020.3	2121.0	2177.7
42.5°	2518.3	2521.3	2556.2	2575.5	2477.3	2434.8	2279.4	2050.7	2071.9	2243.5	2342.7
45°	2620.0	2626.6	2684.3	2743.0	2636.7	2578.5	2377.1	2115.4	2124.6	2328.5	2464.6
47.5°	2616.0	2631.2	2739.5	2846.2	2773.9	2711.1	2494.5	2219.2	2204.0	2408.5	2545.1
50°	2534.5	2552.7	2708.1	2877.6	2872.6	2814.4	2625.1	2369.5	2321.9	2479.3	2555.2
52.5°	2365.5	2418.1	2652.9	2881.7	2952.0	2922.7	2786.5	2571.9	2481.3	2581.0	2571.4
55°	2000.1	2064.8	2485.4	2847.3	3023.9	3027.4	2956.1	2783.0	2654.4	2756.2	2671.1
57.5°	1518.3	1569.9	1913.0	2534.5	2904.9	2963.1	3021.9	2894.3	2761.2	2875.6	2694.4
60°	915.0	974.7	1197.9	1859.9	2346.2	2445.4	2675.7	2650.9	2490.5	2539.5	2209.6
62.5°	371.0	402.3	553.2	1024.8	1476.8	1569.4	1790.0	1827.5	1788.0	1737.9	1340.1
65°	135.6	148.3	221.7	423.6	679.2	713.1	829.5	895.8	950.4	809.2	498.5
67.5°	84.0	92.1	144.2	217.6	247.0	229.8	233.8	278.9	266.2	164.5	89.1
70°	62.2	68.8	112.9	150.8	99.7	76.9	52.1	55.7	50.1	44.0	43.5
72.5°	43.0	49.1	84.5	89.1	38.5	27.3	19.2	26.8	30.4	29.9	30.9
75°	28.3	32.9	53.1	34.9	9.6	7.6	6.6	14.2	18.2	18.2	18.7
77.5°	16.7	19.2	18.7	7.1	2.0	2.0	1.5	2.5	4.0	4.6	5.6
80°	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5
82.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5
85°	0.0	0.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5
87.5°	0.0	0.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5
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°	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8
2.5°	1071.9	1068.4	1083.0	1093.7	1102.3	1106.3	1100.7	1100.2	1100.2	1089.1	1086.1
5°	1084.5	1086.1	1106.8	1115.9	1117.4	1112.4	1099.7	1091.1	1086.1	1074.4	1067.8
7.5°	1108.8	1113.9	1133.6	1132.1	1118.5	1095.2	1061.8	1036.0	1019.3	1001.0	989.9
10°	1143.8	1153.4	1165.5	1144.3	1100.7	1041.5	972.7	923.6	894.3	873.5	860.9
12.5°	1186.3	1195.9	1191.8	1141.7	1051.1	945.4	856.8	786.0	752.0	733.3	720.2
15°	1229.3	1235.4	1209.0	1111.4	963.6	821.4	722.7	652.3	610.8	595.7	584.5
17.5°	1273.3	1271.8	1212.1	1051.7	846.7	681.7	584.5	536.5	524.8	522.3	521.3
20°	1319.4	1305.7	1199.9	966.1	706.0	543.5	488.4	491.4	512.7	522.8	524.8
22.5°	1372.0	1337.6	1169.6	850.2	562.3	452.9	458.5	488.4	517.2	530.9	532.9
25°	1428.2	1366.9	1119.0	701.4	443.3	416.5	449.4	483.8	514.7	531.4	533.4
27.5°	1465.1	1374.0	1036.0	551.6	380.6	402.3	437.3	470.2	502.0	520.3	522.8
30°	1505.1	1371.0	923.1	425.1	359.3	390.2	420.6	450.4	479.8	500.0	502.0
32.5°	1563.8	1369.0	785.4	345.2	350.7	380.6	402.8	427.6	447.9	459.5	458.0
35°	1640.7	1366.4	625.0	311.2	345.7	373.0	390.7	402.3	380.1	373.0	374.5
37.5°	1739.4	1372.5	489.9	297.1	344.1	371.0	386.1	352.7	318.3	305.2	303.1
40°	1848.7	1388.2	373.5	291.5	349.2	376.0	368.9	313.8	271.3	245.5	239.9
42.5°	1958.6	1405.4	295.6	289.5	357.8	390.2	340.6	285.4	221.7	207.0	205.0
45°	2040.0	1402.4	255.6	285.9	365.4	398.3	333.0	244.9	197.9	191.3	191.8
47.5°	2081.0	1369.0	233.8	277.8	368.4	390.2	314.3	228.2	181.7	188.8	194.8
50°	2059.3	1282.4	213.6	262.2	361.9	379.6	284.4	215.6	173.6	202.9	216.6
52.5°	2033.0	1176.1	191.3	237.9	346.2	364.9	272.8	212.1	168.5	195.9	206.0
55°	2067.9	1108.8	154.9	200.4	315.3	330.5	263.7	211.5	156.9	152.3	150.8
57.5°	2018.8	974.7	110.8	144.2	241.9	261.6	257.1	208.0	139.2	138.7	140.7
60°	1560.3	594.7	75.9	91.6	148.3	167.0	233.3	198.9	119.9	110.3	110.8
62.5°	886.7	253.0	52.1	56.7	75.9	90.1	178.1	180.7	110.8	105.3	110.8
65°	308.7	90.6	40.5	38.0	42.0	48.1	102.2	139.7	100.7	91.1	92.1
67.5°	63.8	45.0	35.9	31.4	31.4	31.4	52.1	87.0	83.0	72.4	73.4
70°	40.5	38.5	31.4	26.8	25.8	23.8	29.9	48.1	57.2	52.6	53.1
72.5°	29.9	29.4	24.8	21.8	19.2	17.2	18.7	23.8	29.4	30.4	30.9
75°	18.2	18.7	16.2	13.7	12.1	10.6	11.1	11.1	11.1	10.1	11.1
77.5°	5.6	6.1	5.1	4.0	3.5	3.5	3.5	3.0	2.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.0	0.0
82.5°	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.0	0.0	0.0
85°	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.0	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	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)