

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: P629994

Luminaire Tested: GWS-SA1C-827-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-827-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

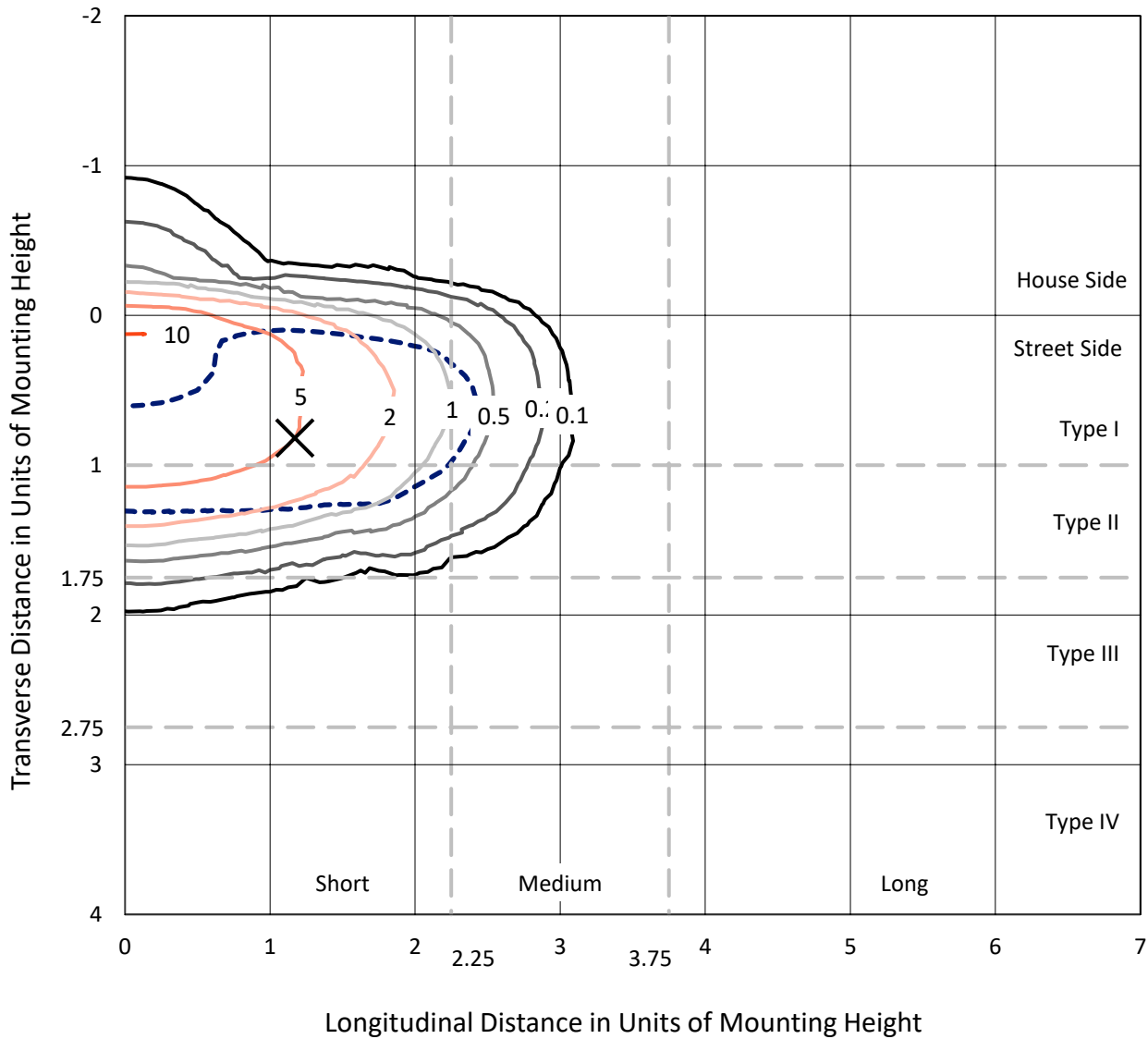
Lumens per Lamp: N/A  
Luminaire Lumens: 2963.1 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

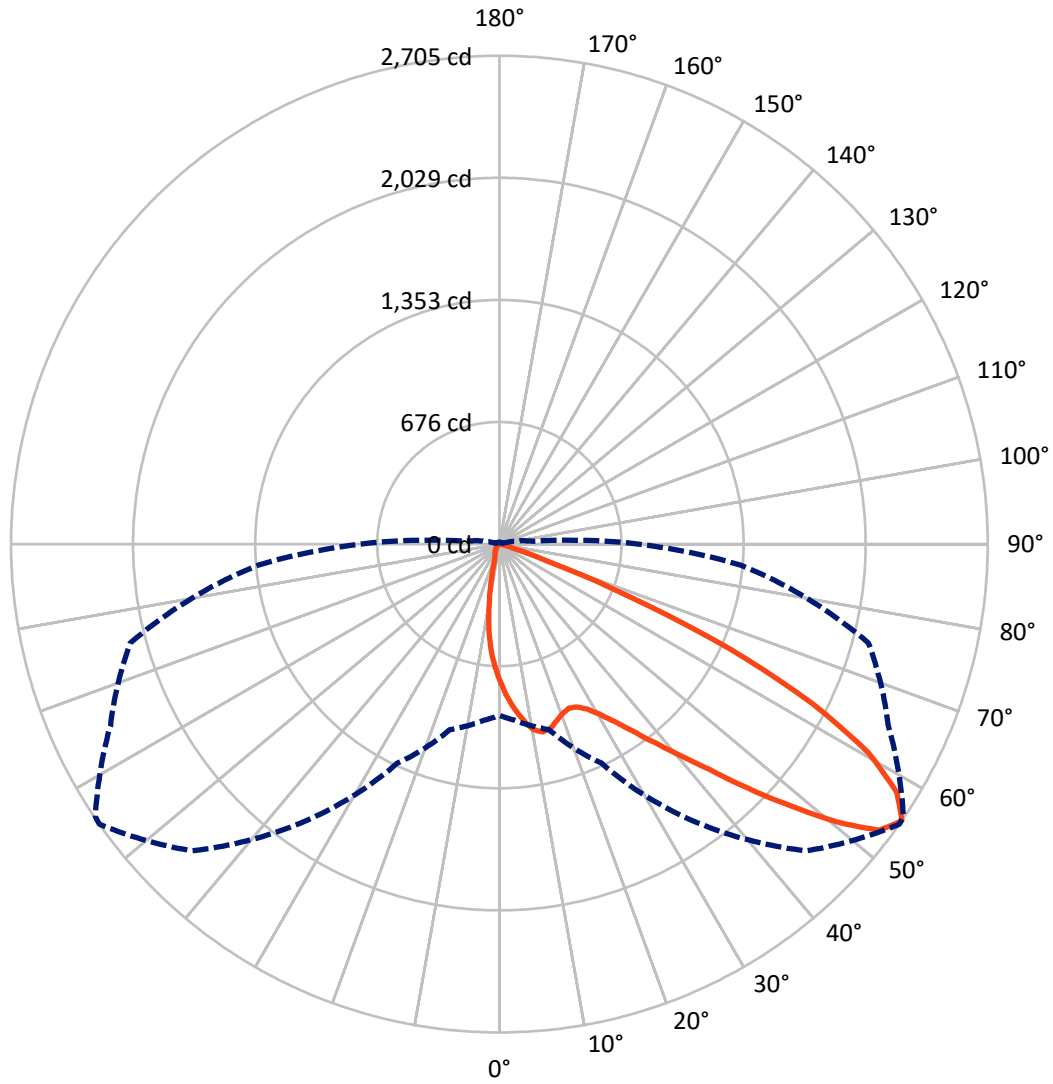
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	182.8	0.0	182.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	2780.3	0.0	2780.3
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	2963.1	0.0	2963.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	2.3
10°-20°	163.1	5.5
20°-30°	271.6	9.2
30°-40°	462.9	15.6
40°-50°	755.6	25.5
50°-60°	791.0	26.7
60°-70°	399.0	13.5
70°-80°	50.4	1.7
80°-90°	1.9	0.1
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°	2963.1	100.0
0°-180°	2963.1	100.0

**Coefficient of Utilization**



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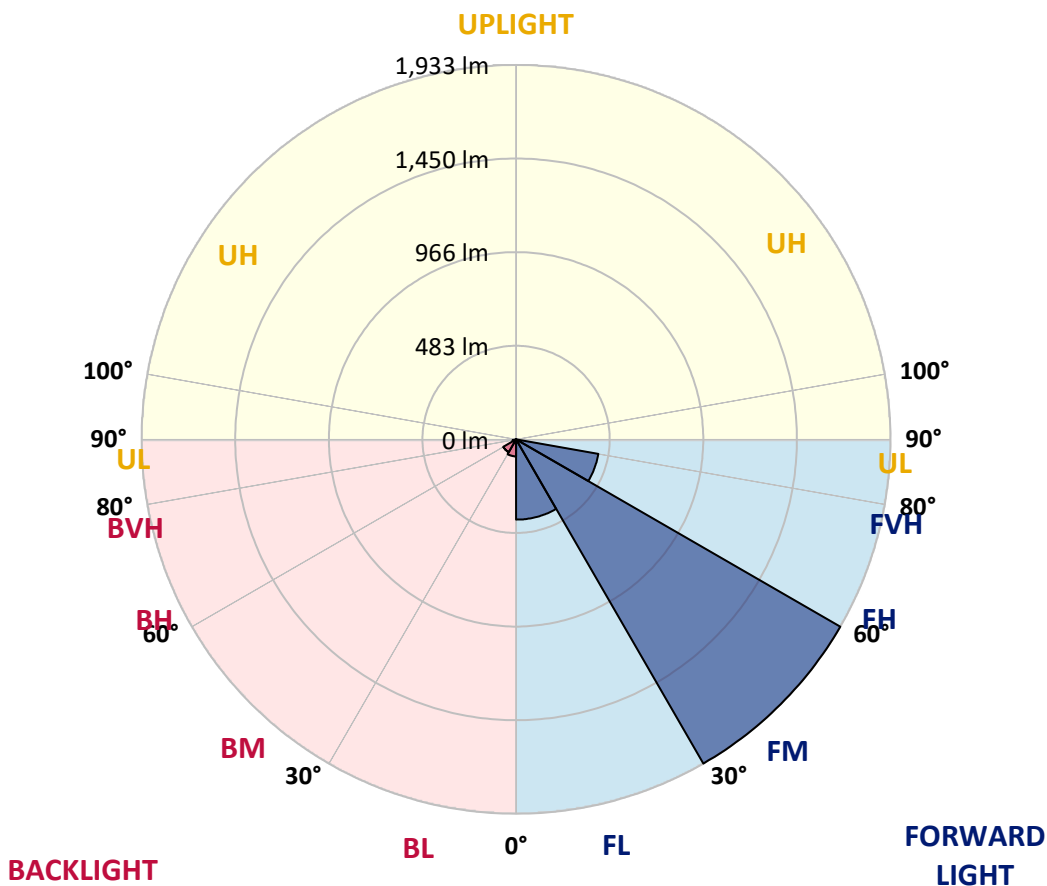
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.5	14.0			
FM (30°-60°)	1933.0	65.2			
FH (60°-80°)	431.0	14.5			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	87.9	3.0	B0/110		
BM (30°-60°)	76.4	2.6	B0/220		
BH (60°-80°)	18.3	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5
2.5°	892.4	888.1	894.7	887.1	874.2	863.3	849.1	844.0	821.2	799.7	778.9
5°	1000.8	1002.1	1000.1	989.4	971.2	950.9	922.3	916.0	876.2	835.2	790.8
7.5°	1027.7	1026.9	1031.2	1035.3	1032.2	1022.1	990.9	984.6	935.2	873.7	809.1
10°	944.8	945.3	954.2	981.6	1015.5	1050.7	1045.9	1042.4	994.0	917.2	829.3
12.5°	827.8	832.4	841.7	880.7	938.2	1018.3	1067.9	1071.5	1047.9	965.1	853.1
15°	777.1	778.2	785.8	809.3	852.1	950.9	1058.6	1068.4	1093.0	1013.2	879.0
17.5°	775.9	777.1	780.4	790.8	818.7	898.0	1028.4	1045.6	1127.0	1064.9	909.9
20°	823.5	822.7	820.5	814.9	827.0	880.5	1000.6	1019.6	1145.5	1115.3	941.0
22.5°	909.9	908.9	898.7	875.7	865.8	896.5	986.9	1004.1	1156.6	1160.1	966.6
25°	1009.4	1016.5	997.5	962.6	938.2	937.2	999.0	1011.2	1166.2	1199.9	984.1
27.5°	1118.6	1120.9	1104.7	1065.4	1030.2	1002.6	1034.2	1043.4	1176.9	1235.4	994.0
30°	1238.4	1237.7	1219.2	1173.6	1130.8	1091.0	1093.5	1097.1	1201.7	1275.9	1004.9
32.5°	1388.1	1391.4	1358.5	1296.4	1245.0	1190.0	1171.0	1171.5	1246.5	1328.1	1021.3
35°	1591.5	1583.4	1539.8	1451.4	1363.8	1304.5	1272.1	1269.3	1315.7	1398.3	1050.0
37.5°	1785.3	1786.1	1740.5	1643.2	1532.5	1439.0	1393.2	1385.6	1412.9	1495.5	1097.6
40°	1919.8	1922.3	1903.3	1852.4	1735.1	1602.9	1535.5	1527.7	1539.1	1618.6	1159.9
42.5°	1991.0	1998.1	2003.4	2015.3	1926.4	1807.6	1704.0	1703.2	1691.3	1759.0	1232.1
45°	1993.8	2004.4	2036.8	2118.1	2128.3	2041.1	1928.4	1911.4	1865.6	1909.2	1296.7
47.5°	1883.6	1908.2	1977.1	2138.2	2244.5	2273.4	2161.7	2151.3	2022.7	2028.0	1345.1
50°	1626.7	1652.3	1779.2	2035.6	2273.9	2457.8	2417.8	2396.3	2153.9	2106.5	1368.4
52.5°	1363.3	1386.6	1472.7	1791.4	2152.1	2515.8	2633.6	2608.0	2271.7	2133.9	1358.7
55°	948.6	979.8	1063.9	1339.0	1871.4	2402.9	2705.1	2699.7	2376.8	2116.6	1343.8
57.5°	465.1	496.0	579.8	825.5	1386.3	2097.9	2595.9	2624.0	2439.6	2098.1	1331.6
60°	194.3	207.0	235.8	362.2	775.6	1585.4	2349.4	2388.4	2401.1	2073.1	1330.4
62.5°	112.7	114.7	117.8	150.2	301.7	908.9	1948.9	2004.4	2198.7	2039.9	1310.4
65°	85.1	85.9	84.6	92.2	124.6	344.7	1408.1	1483.6	1835.2	1910.2	1231.3
67.5°	69.9	69.9	66.6	68.1	78.3	129.2	777.4	882.8	1358.0	1570.0	1016.8
70°	55.7	57.0	55.5	53.4	56.0	71.4	276.6	343.0	790.8	927.1	593.0
72.5°	42.3	42.3	44.8	43.3	41.5	44.8	96.5	108.4	317.4	386.5	214.0
75°	32.7	33.7	35.5	33.9	31.4	26.6	46.4	49.1	95.7	89.9	47.9
77.5°	16.7	17.0	22.5	24.8	23.3	16.2	20.3	22.3	31.2	27.9	17.7
80°	10.1	10.6	12.7	19.5	15.5	8.6	8.4	8.9	14.7	12.7	7.3
82.5°	4.3	4.6	7.1	7.1	6.3	3.3	3.3	3.3	7.1	6.6	3.0
85°	0.0	0.0	1.3	1.0	1.0	1.3	1.3	1.3	1.8	2.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.8
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°	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5
2.5°	765.5	749.3	727.5	707.7	681.1	666.2	645.4	628.5	614.0	609.5	607.4
5°	765.7	737.9	691.3	644.7	587.4	542.3	496.0	459.2	429.1	419.5	416.9
7.5°	770.8	729.8	654.3	569.7	473.9	394.9	324.2	260.9	231.5	221.6	219.6
10°	777.7	722.9	611.5	479.8	342.2	240.6	170.5	129.9	110.7	100.1	101.6
12.5°	786.5	717.4	564.1	382.5	226.5	132.2	93.7	78.5	74.5	72.4	71.4
15°	798.4	710.8	505.3	286.0	138.8	85.1	72.2	68.1	66.6	65.6	65.4
17.5°	810.6	703.2	445.6	201.1	92.2	70.7	64.8	62.8	61.8	61.0	60.8
20°	823.5	690.3	375.4	138.6	72.7	63.6	59.8	57.5	56.2	55.0	54.7
22.5°	829.1	669.5	308.3	97.0	64.6	58.5	53.7	50.9	49.4	48.4	48.4
25°	823.8	635.8	238.9	73.7	58.8	52.9	48.1	45.1	43.8	42.8	42.8
27.5°	809.6	592.5	174.3	61.0	52.4	47.1	42.6	39.8	38.8	38.2	38.2
30°	793.9	537.8	122.9	52.4	45.3	41.0	37.2	35.5	35.2	34.7	34.7
32.5°	780.4	486.6	84.6	46.1	40.0	35.7	33.2	32.4	32.7	32.2	32.4
35°	773.1	436.4	62.8	41.0	35.7	31.7	30.4	30.4	30.4	30.1	30.1
37.5°	776.1	387.1	51.2	37.5	31.9	28.9	27.6	28.1	28.6	28.6	28.6
40°	791.3	343.2	45.3	34.2	28.6	26.3	25.3	26.1	26.9	27.4	27.4
42.5°	810.6	307.8	41.0	31.4	26.3	23.8	23.3	24.1	24.8	25.3	25.3
45°	822.7	272.1	36.7	27.9	24.1	21.0	21.0	22.0	21.8	22.0	22.0
47.5°	828.3	243.7	32.4	24.1	20.5	18.2	18.5	19.0	18.5	19.0	19.0
50°	814.6	215.1	28.6	20.0	17.0	16.0	16.5	16.2	16.2	17.2	17.2
52.5°	789.6	193.8	25.3	17.0	14.4	14.2	14.7	13.7	13.9	13.9	13.7
55°	771.1	181.6	22.5	14.7	12.4	12.7	12.4	10.6	9.6	8.6	8.4
57.5°	761.9	176.8	20.5	13.2	11.1	11.1	10.1	7.3	5.6	4.3	3.8
60°	759.9	171.0	18.5	11.4	9.9	9.4	7.3	4.3	2.8	2.0	1.8
62.5°	740.7	156.8	16.7	9.1	8.6	7.6	4.6	2.5	1.5	1.0	0.8
65°	677.6	128.9	14.9	7.1	6.6	5.6	2.8	1.5	0.8	0.3	0.0
67.5°	539.0	91.4	13.2	5.3	4.6	3.5	1.8	1.0	0.3	0.0	0.0
70°	310.8	49.4	10.9	3.8	3.0	2.3	1.3	0.5	0.0	0.0	0.0
72.5°	103.9	23.1	8.4	2.5	2.3	1.8	0.8	0.3	0.0	0.0	0.0
75°	22.8	13.7	5.6	1.8	1.5	1.3	0.5	0.0	0.0	0.0	0.0
77.5°	8.6	9.6	2.8	1.3	1.0	0.8	0.3	0.0	0.0	0.0	0.0
80°	3.3	6.3	1.3	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	2.5	0.8	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.0	1.3	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.3	0.3	0.3	0.0	0.0	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)