

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: P631285

Luminaire Tested: GWS-SA1F-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631285
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-SA1F-735-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6224.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

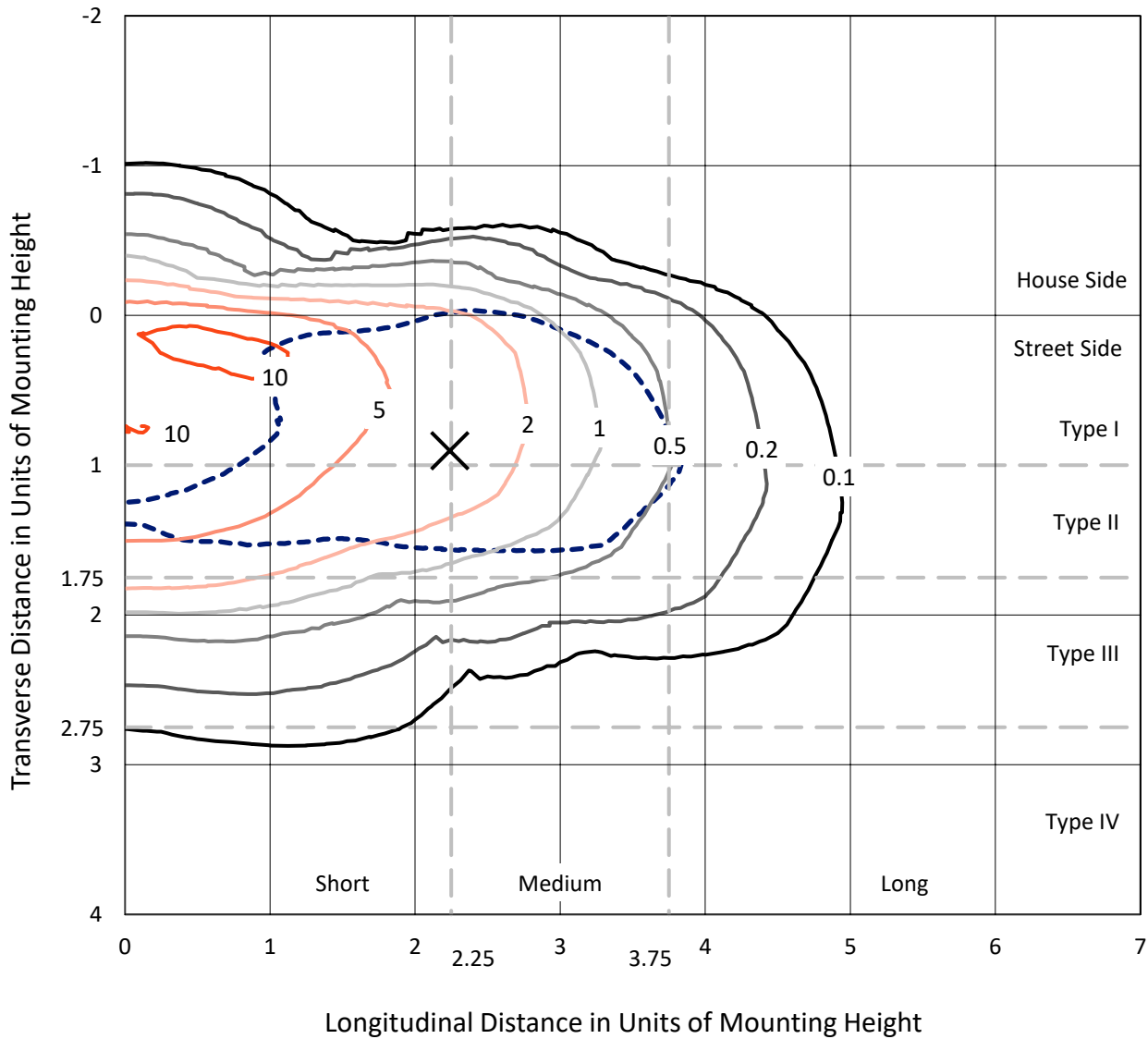
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

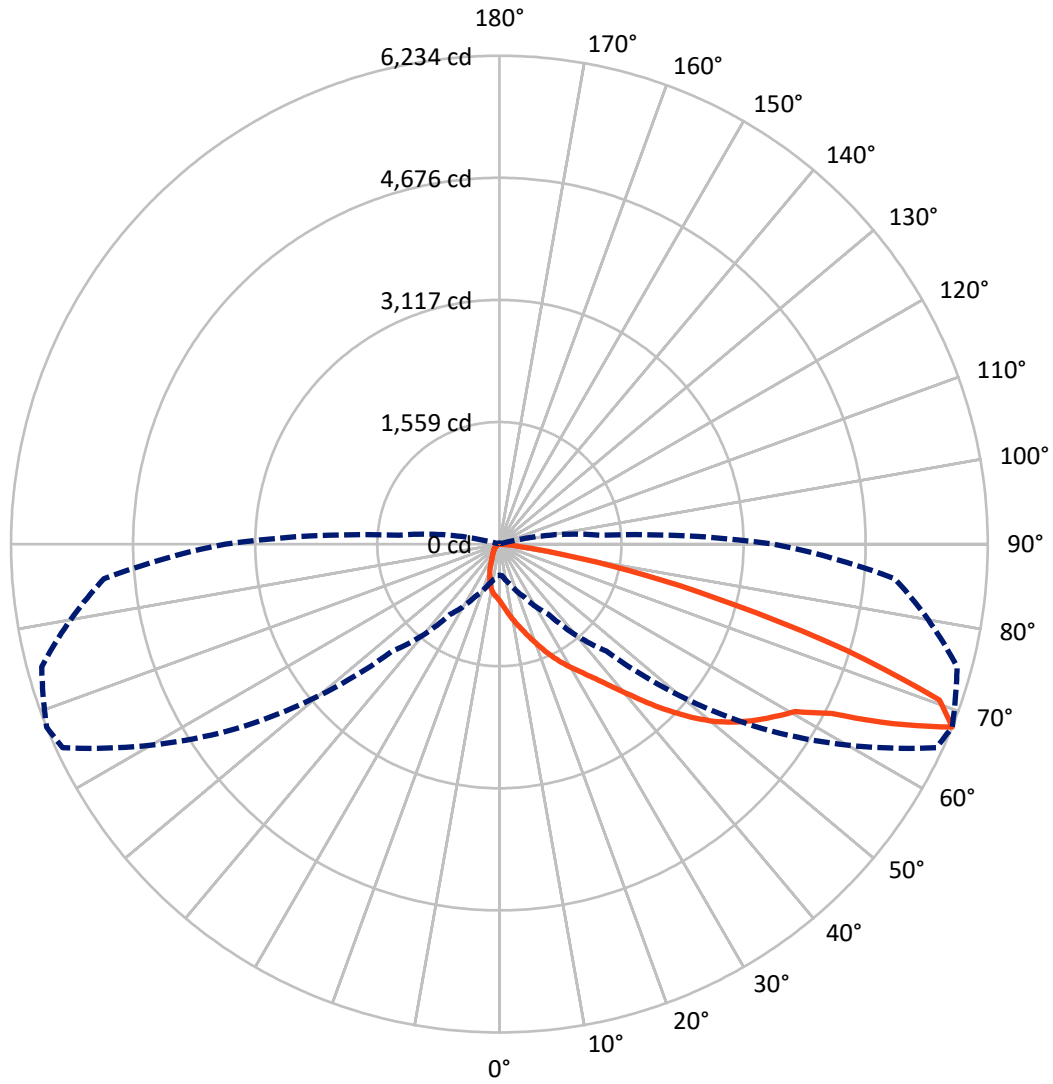
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 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
House Side	Lumens	449.5	0.0	449.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5774.8	0.0	5774.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	6224.3	0.0	6224.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.1
10°-20°	202.9	3.3
20°-30°	348.6	5.6
30°-40°	606.2	9.7
40°-50°	1057.7	17.0
50°-60°	1595.3	25.6
60°-70°	1599.6	25.7
70°-80°	705.8	11.3
80°-90°	37.7	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°	6224.3	100.0
0°-180°	6224.3	100.0

Coefficient of Utilization



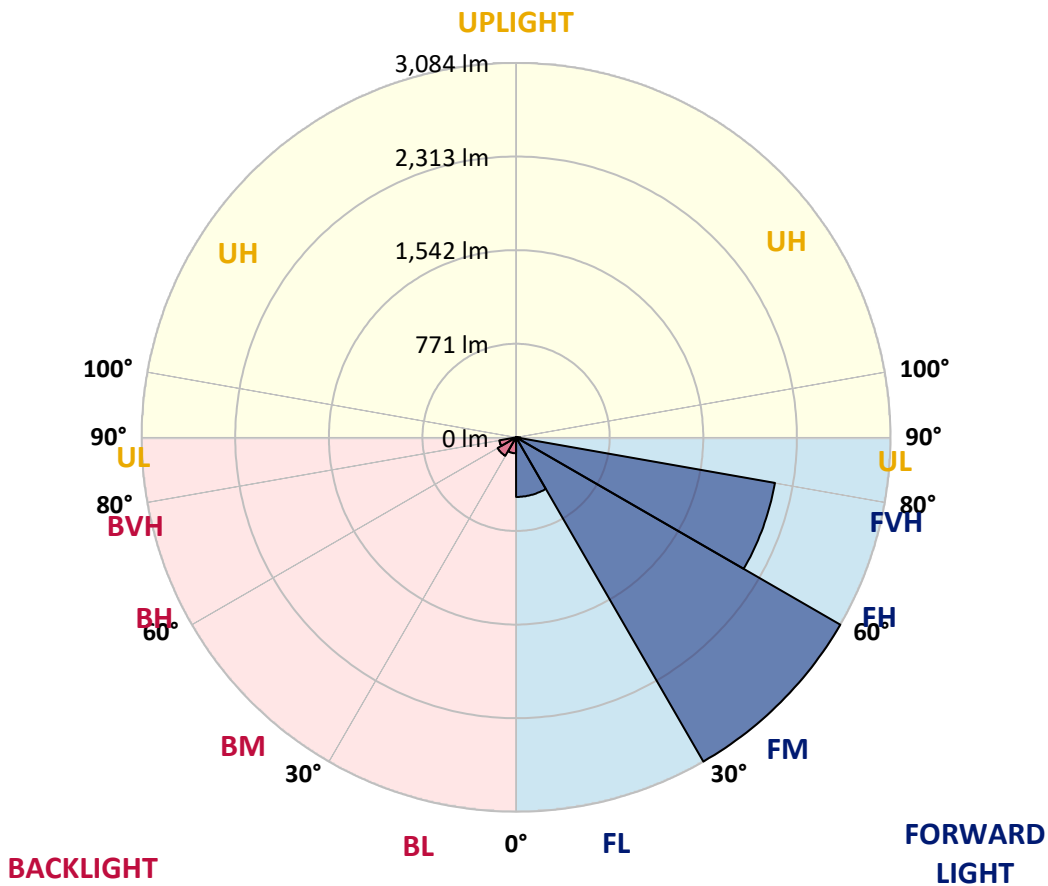
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.7	7.9			
FM (30°-60°)	3083.5	49.5			
FH (60°-80°)	2165.1	34.8			G2/5000
FVH (80°-90°)	35.6	0.6			G1/100
BL (0°-30°)	131.5	2.1	B1/500		
BM (30°-60°)	175.6	2.8	B0/220		
BH (60°-80°)	140.3	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	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°	724.4	724.4	724.4	724.4	724.4	724.4	724.4	724.4	724.4	724.4	724.4
2.5°	843.5	848.8	843.5	844.7	829.2	822.0	806.6	785.1	779.7	766.0	745.2
5°	946.5	951.3	945.9	944.8	926.9	913.8	888.2	851.2	840.5	813.7	772.6
7.5°	1002.5	1005.5	1007.3	1010.3	1003.7	993.0	969.8	923.9	912.6	869.1	811.3
10°	1008.5	1010.9	1019.8	1037.7	1050.8	1057.3	1044.2	1001.9	984.1	941.8	859.0
12.5°	991.8	995.4	1009.7	1039.5	1075.8	1109.2	1117.5	1080.6	1064.5	1010.3	915.0
15°	969.8	972.7	992.4	1032.9	1087.7	1149.1	1183.6	1167.5	1149.7	1093.1	976.9
17.5°	935.8	940.0	967.4	1022.2	1093.1	1180.6	1255.1	1260.5	1248.0	1186.6	1045.4
20°	916.8	919.7	944.2	1000.7	1089.5	1203.9	1321.8	1372.5	1358.8	1294.4	1124.1
22.5°	932.8	935.2	951.3	995.4	1077.6	1217.0	1383.8	1484.4	1476.7	1410.0	1206.9
25°	1017.4	1025.2	1015.6	1023.4	1083.0	1224.1	1433.8	1596.4	1598.2	1530.9	1292.6
27.5°	1189.0	1178.9	1156.2	1117.5	1124.6	1243.2	1476.7	1701.9	1717.4	1648.8	1368.9
30°	1363.5	1357.6	1343.9	1283.7	1233.7	1285.5	1513.0	1809.7	1834.1	1765.0	1436.8
32.5°	1559.5	1565.5	1541.0	1469.0	1383.8	1371.3	1550.6	1912.1	1958.0	1896.7	1516.6
35°	1793.6	1795.4	1747.1	1667.3	1570.8	1513.0	1617.9	2025.3	2109.9	2064.6	1623.2
37.5°	2021.7	2032.5	2006.3	1880.6	1794.8	1689.4	1729.3	2170.7	2289.8	2271.9	1757.3
40°	2223.7	2240.4	2232.0	2110.5	1997.9	1909.2	1902.0	2341.0	2507.2	2527.5	1934.2
42.5°	2384.5	2395.2	2401.8	2315.4	2215.9	2165.9	2115.3	2538.8	2764.0	2846.8	2151.0
45°	2554.3	2557.9	2571.6	2513.2	2426.2	2430.4	2367.2	2778.9	3034.4	3200.6	2400.0
47.5°	2770.5	2782.4	2775.9	2714.5	2635.9	2683.0	2627.6	3026.1	3301.3	3578.3	2655.0
50°	3033.8	3046.3	3040.4	2968.9	2881.3	2901.0	2866.4	3266.1	3558.6	3934.5	2867.0
52.5°	3169.6	3179.8	3253.6	3285.8	3239.9	3114.8	3070.1	3530.0	3776.0	4227.6	3061.8
55°	3104.1	3111.3	3272.1	3407.9	3575.9	3450.8	3275.1	3733.7	3967.8	4456.3	3206.6
57.5°	2832.5	2871.2	3089.8	3319.7	3673.0	3782.6	3607.5	3955.3	4152.5	4615.4	3348.9
60°	2275.5	2273.7	2587.1	2999.9	3483.6	3873.7	4076.9	4255.0	4337.8	4737.5	3539.5
62.5°	1257.5	1268.8	1685.8	2229.6	2957.0	3637.8	4428.9	4772.6	4760.1	4950.7	3838.0
65°	626.1	648.7	875.1	1277.1	1967.5	3006.4	4489.7	5562.5	5526.7	5452.9	4454.5
67.5°	397.3	406.3	531.3	742.2	1093.7	1932.4	4111.4	6151.6	6234.4	6048.6	5066.3
70°	257.3	272.2	369.3	507.5	660.0	996.0	3011.8	5769.8	5959.8	5983.0	4685.0
72.5°	140.0	150.7	235.9	362.2	476.5	498.0	1691.7	4330.0	4635.6	5075.2	3665.2
75°	79.8	87.6	129.3	246.0	349.7	303.2	750.0	2898.6	3093.4	3627.1	2626.4
77.5°	48.3	54.8	72.7	119.7	219.2	202.5	283.5	1764.4	1888.3	2164.1	1378.4
80°	22.0	26.2	45.9	66.1	119.7	95.9	108.4	822.6	849.4	888.2	456.3
82.5°	10.1	11.9	20.8	39.3	67.9	55.4	41.7	190.0	267.5	253.2	116.2
85°	1.2	1.2	7.7	16.1	19.1	14.3	17.3	42.9	54.2	76.2	33.4
87.5°	0.0	0.0	0.6	0.6	1.2	1.8	3.6	5.4	7.7	12.5	8.3
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°	724.4	724.4	724.4	724.4	724.4	724.4	724.4	724.4	724.4	724.4	724.4
2.5°	735.7	719.0	704.1	682.1	667.2	650.5	639.2	625.5	620.1	615.9	610.0
5°	752.3	725.5	689.2	648.7	615.3	583.8	554.6	535.5	518.8	516.5	508.1
7.5°	779.7	739.8	678.5	612.4	555.8	503.4	462.2	428.9	412.2	406.9	397.3
10°	816.1	761.3	662.4	561.1	479.5	417.0	370.5	333.0	306.8	297.2	290.1
12.5°	856.6	780.9	636.8	498.0	405.1	333.6	274.6	234.7	218.0	212.1	206.7
15°	903.1	799.4	596.3	434.8	332.4	245.4	203.7	186.4	179.3	177.5	175.7
17.5°	947.7	811.3	548.0	369.3	255.5	190.6	171.0	164.4	162.6	160.8	159.6
20°	998.4	819.7	491.4	307.4	198.4	161.4	151.9	147.1	143.6	140.0	139.4
22.5°	1050.2	819.7	430.1	246.6	166.2	144.8	134.0	125.1	118.5	115.0	113.8
25°	1099.6	808.3	369.3	197.2	146.5	128.7	115.0	104.8	95.9	91.7	90.5
27.5°	1134.8	779.2	316.3	166.8	132.8	114.4	97.7	86.4	79.2	75.1	74.5
30°	1156.8	735.7	267.5	148.9	120.9	99.5	82.8	73.3	67.9	64.9	63.7
32.5°	1173.5	682.1	224.0	136.4	109.6	86.4	72.1	64.3	59.6	57.2	56.6
35°	1206.9	631.4	191.8	125.1	97.7	75.7	63.1	57.2	53.6	50.6	50.0
37.5°	1253.3	589.1	166.2	115.0	86.4	67.3	57.2	51.8	48.8	45.9	45.3
40°	1321.8	562.3	147.1	104.8	76.2	60.8	52.4	47.7	43.5	40.5	39.9
42.5°	1427.3	549.8	134.6	94.7	67.3	54.8	48.3	42.3	38.1	35.1	34.5
45°	1552.9	556.4	123.9	84.6	61.4	50.6	42.9	36.9	32.8	29.8	29.2
47.5°	1687.6	579.6	115.0	75.1	55.4	46.5	38.1	31.6	28.0	25.0	24.4
50°	1828.2	617.7	107.2	66.1	50.6	41.7	32.8	27.4	23.8	21.4	20.8
52.5°	1950.3	669.5	99.5	59.6	46.5	36.9	28.6	23.8	20.3	17.9	17.3
55°	2067.0	718.4	93.5	53.6	41.7	32.2	25.0	20.3	17.3	14.9	14.3
57.5°	2193.9	770.2	86.4	48.3	37.5	28.6	22.0	17.3	14.9	12.5	11.9
60°	2378.6	847.1	75.7	44.1	32.8	25.0	19.1	15.5	13.1	10.1	9.5
62.5°	2644.8	987.0	63.7	38.1	28.0	21.4	16.1	13.1	10.7	8.3	7.1
65°	3142.8	1225.3	52.4	31.6	22.6	17.9	13.7	10.7	8.3	6.0	5.4
67.5°	3501.4	1287.3	42.3	25.6	18.5	13.7	11.3	8.3	6.0	4.2	3.6
70°	3061.2	924.5	32.8	20.8	15.5	10.7	8.9	6.6	4.2	3.0	2.4
72.5°	2306.5	604.0	24.4	16.1	11.9	8.9	6.6	5.4	3.6	2.4	1.8
75°	1625.6	349.1	17.9	11.9	8.3	6.6	5.4	4.2	3.0	1.8	1.8
77.5°	833.4	144.2	12.5	8.3	6.0	4.2	3.6	2.4	2.4	1.8	1.2
80°	253.2	47.7	7.1	5.4	4.2	3.0	1.8	1.8	1.8	1.2	0.6
82.5°	57.8	15.5	4.2	4.2	3.0	2.4	1.8	0.6	0.6	0.0	0.0
85°	14.9	4.8	3.6	3.0	3.0	2.4	1.2	0.6	0.0	0.0	0.0
87.5°	5.4	3.0	3.0	3.0	2.4	1.8	1.2	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)