

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: P631780

Luminaire Tested: GWS-SA2B-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631780
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-SA2B-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5098.6 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

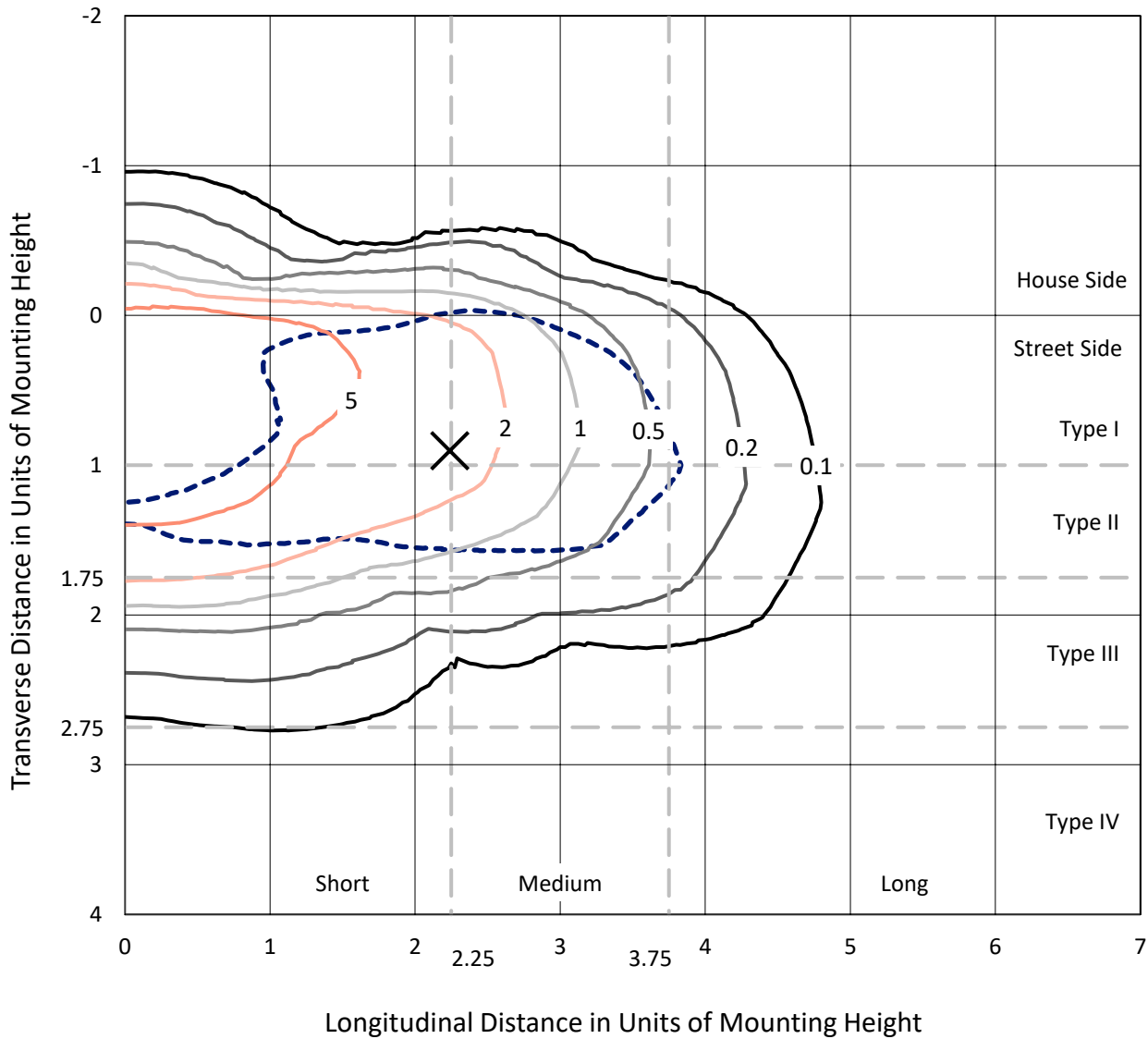
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

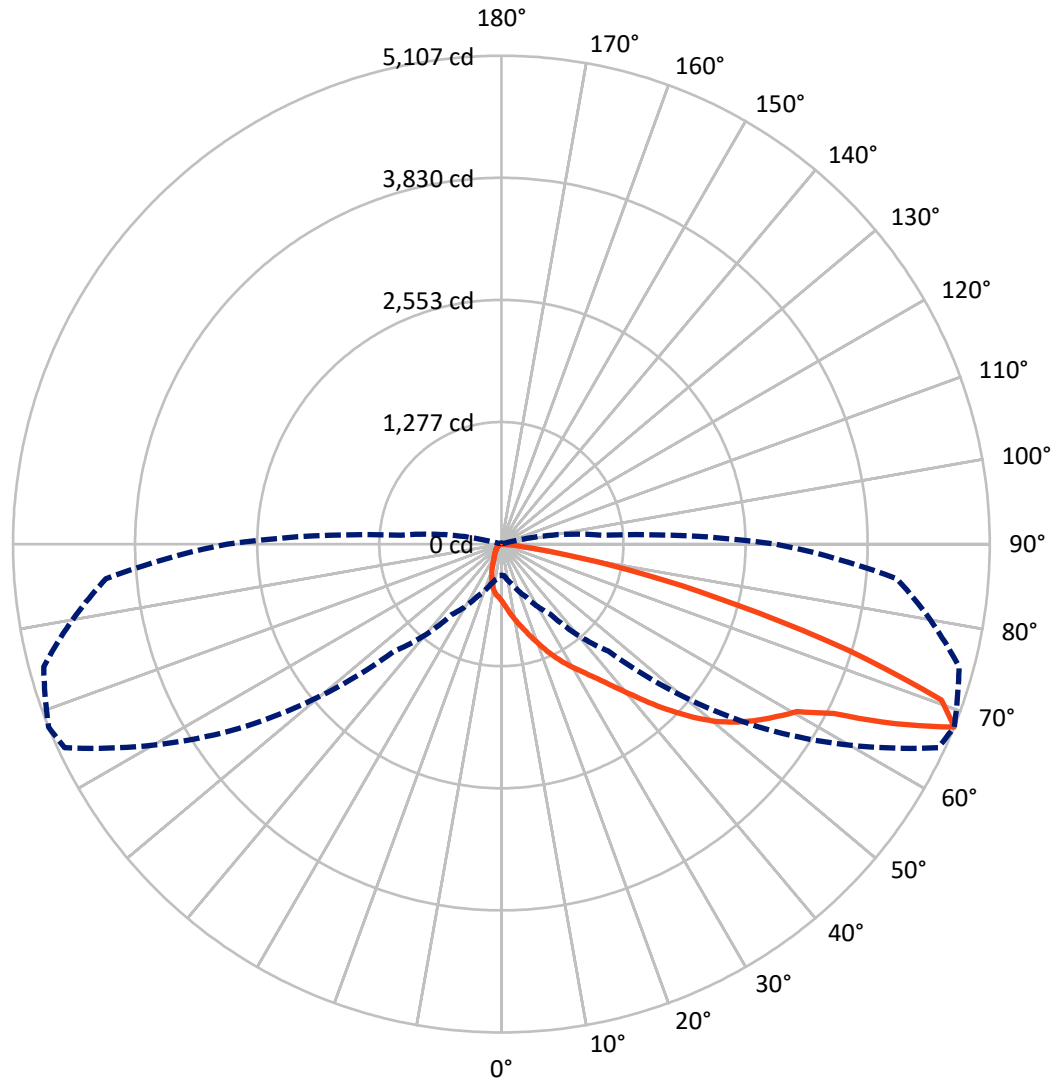
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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	368.2	0.0	368.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4730.4	0.0	4730.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	5098.6	0.0	5098.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.1
10°-20°	166.2	3.3
20°-30°	285.6	5.6
30°-40°	496.5	9.7
40°-50°	866.4	17.0
50°-60°	1306.7	25.6
60°-70°	1310.3	25.7
70°-80°	578.1	11.3
80°-90°	30.9	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°	5098.6	100.0
0°-180°	5098.6	100.0

Coefficient of Utilization



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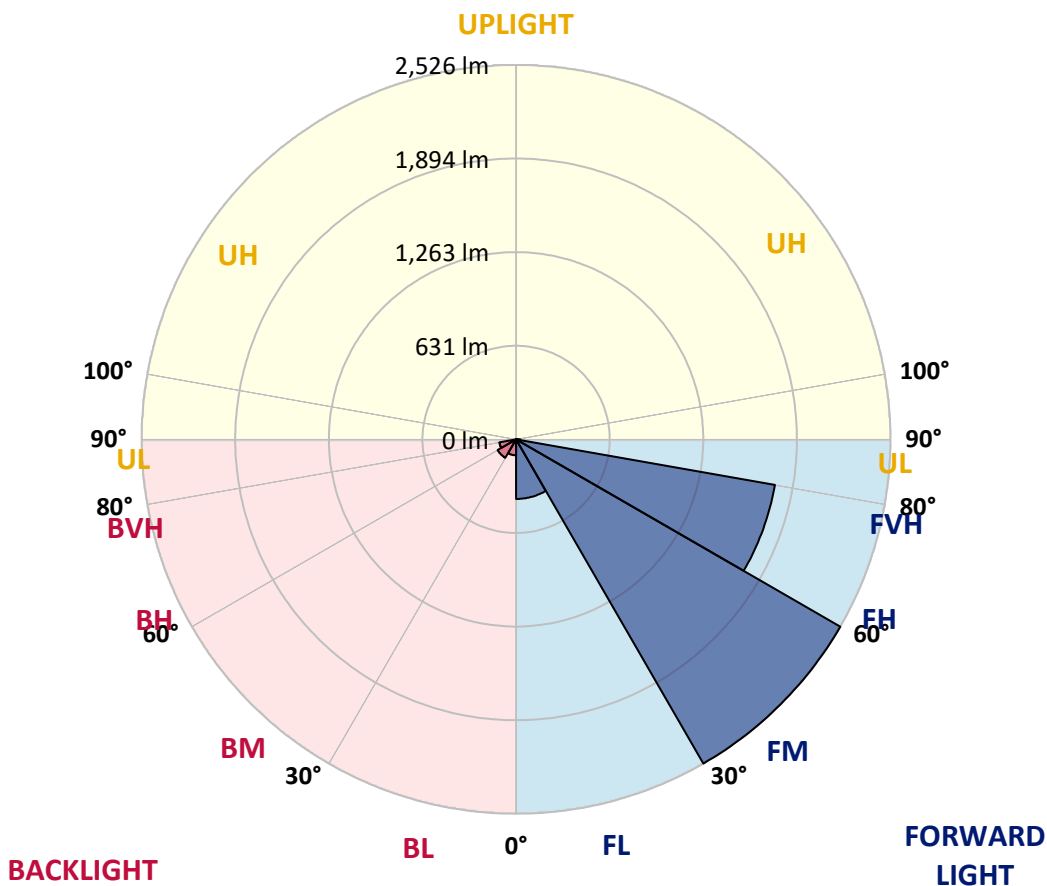
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.9	7.9			
FM (30°-60°)	2525.8	49.5			
FH (60°-80°)	1773.5	34.8			G1/1800
FVH (80°-90°)	29.1	0.6			G1/100
BL (0°-30°)	107.7	2.1	B0/110		
BM (30°-60°)	143.8	2.8	B0/220		
BH (60°-80°)	114.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.7	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3
2.5°	690.9	695.3	690.9	691.9	679.2	673.4	660.7	643.1	638.7	627.5	610.4
5°	775.4	779.3	774.9	773.9	759.3	748.5	727.5	697.3	688.5	666.5	632.9
7.5°	821.2	823.7	825.1	827.6	822.2	813.4	794.4	756.8	747.5	711.9	664.6
10°	826.1	828.1	835.4	850.0	860.7	866.1	855.4	820.7	806.1	771.4	703.6
12.5°	812.4	815.4	827.1	851.5	881.2	908.6	915.4	885.1	872.0	827.6	749.5
15°	794.4	796.8	812.9	846.1	891.0	941.3	969.6	956.4	941.7	895.4	800.2
17.5°	766.6	770.0	792.4	837.3	895.4	967.1	1028.1	1032.5	1022.3	972.0	856.4
20°	751.0	753.4	773.4	819.8	892.5	986.1	1082.8	1124.2	1113.0	1060.3	920.8
22.5°	764.1	766.1	779.3	815.4	882.7	996.9	1133.5	1216.0	1209.6	1155.0	988.6
25°	833.4	839.8	832.0	838.3	887.1	1002.7	1174.5	1307.7	1309.2	1254.0	1058.9
27.5°	973.9	965.7	947.1	915.4	921.2	1018.4	1209.6	1394.1	1406.8	1350.6	1121.3
30°	1116.9	1112.0	1100.8	1051.5	1010.5	1053.0	1239.4	1482.4	1502.4	1445.8	1176.9
32.5°	1277.5	1282.3	1262.3	1203.3	1133.5	1123.3	1270.1	1566.3	1603.9	1553.6	1242.3
35°	1469.2	1470.7	1431.2	1365.8	1286.7	1239.4	1325.3	1659.0	1728.3	1691.2	1329.7
37.5°	1656.1	1664.9	1643.4	1540.5	1470.2	1383.8	1416.5	1778.1	1875.7	1861.0	1439.5
40°	1821.5	1835.2	1828.3	1728.8	1636.6	1563.9	1558.0	1917.6	2053.8	2070.4	1584.4
42.5°	1953.3	1962.0	1967.4	1896.7	1815.2	1774.2	1732.7	2079.6	2264.1	2331.9	1762.0
45°	2092.3	2095.3	2106.5	2058.7	1987.4	1990.8	1939.1	2276.3	2485.6	2621.8	1966.0
47.5°	2269.5	2279.2	2273.8	2223.6	2159.2	2197.7	2152.3	2478.8	2704.2	2931.1	2174.8
50°	2485.1	2495.4	2490.5	2431.9	2360.2	2376.3	2348.0	2675.4	2915.0	3222.9	2348.5
52.5°	2596.4	2604.7	2665.2	2691.5	2654.0	2551.5	2514.9	2891.6	3093.1	3463.0	2508.1
55°	2542.7	2548.6	2680.3	2791.6	2929.2	2826.7	2682.7	3058.5	3250.2	3650.4	2626.6
57.5°	2320.2	2351.9	2531.0	2719.3	3008.7	3098.5	2955.0	3240.0	3401.5	3780.6	2743.3
60°	1864.0	1862.5	2119.2	2457.3	2853.5	3173.1	3339.5	3485.4	3553.3	3880.7	2899.4
62.5°	1030.1	1039.3	1380.9	1826.4	2422.2	2979.9	3627.9	3909.5	3899.2	4055.4	3143.9
65°	512.8	531.4	716.8	1046.2	1611.7	2462.7	3677.7	4556.5	4527.2	4466.7	3648.9
67.5°	325.5	332.8	435.3	608.0	895.9	1582.9	3367.8	5039.1	5106.9	4954.6	4150.0
70°	210.8	223.0	302.5	415.7	540.6	815.9	2467.1	4726.3	4881.9	4901.0	3837.7
72.5°	114.7	123.5	193.2	296.7	390.4	407.9	1385.8	3546.9	3797.2	4157.3	3002.4
75°	65.4	71.7	105.9	201.5	286.4	248.4	614.3	2374.4	2533.9	2971.1	2151.4
77.5°	39.5	44.9	59.5	98.1	179.6	165.9	232.3	1445.3	1546.8	1772.7	1129.1
80°	18.1	21.5	37.6	54.2	98.1	78.6	88.8	673.9	695.8	727.5	373.8
82.5°	8.3	9.8	17.1	32.2	55.6	45.4	34.2	155.7	219.1	207.4	95.2
85°	1.0	1.0	6.3	13.2	15.6	11.7	14.2	35.1	44.4	62.5	27.3
87.5°	0.0	0.0	0.5	0.5	1.0	1.5	2.9	4.4	6.3	10.2	6.8
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°	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3
2.5°	602.6	589.0	576.8	558.7	546.5	532.8	523.6	512.3	508.0	504.5	499.7
5°	616.3	594.3	564.6	531.4	504.1	478.2	454.3	438.7	425.0	423.1	416.2
7.5°	638.7	606.0	555.8	501.6	455.3	412.3	378.6	351.3	337.7	333.3	325.5
10°	668.5	623.6	542.6	459.6	392.8	341.6	303.5	272.8	251.3	243.5	237.6
12.5°	701.7	639.7	521.6	407.9	331.8	273.3	224.9	192.3	178.6	173.7	169.3
15°	739.7	654.8	488.4	356.2	272.3	201.0	166.9	152.7	146.9	145.4	143.9
17.5°	776.3	664.6	448.9	302.5	209.3	156.1	140.0	134.7	133.2	131.7	130.8
20°	817.8	671.4	402.6	251.8	162.5	132.2	124.4	120.5	117.6	114.7	114.2
22.5°	860.3	671.4	352.3	202.0	136.1	118.6	109.8	102.5	97.1	94.2	93.2
25°	900.8	662.1	302.5	161.5	120.0	105.4	94.2	85.9	78.6	75.1	74.2
27.5°	929.5	638.2	259.1	136.6	108.8	93.7	80.0	70.8	64.9	61.5	61.0
30°	947.6	602.6	219.1	122.0	99.1	81.5	67.8	60.0	55.6	53.2	52.2
32.5°	961.3	558.7	183.5	111.7	89.8	70.8	59.0	52.7	48.8	46.8	46.4
35°	988.6	517.2	157.1	102.5	80.0	62.0	51.7	46.8	43.9	41.5	41.0
37.5°	1026.6	482.6	136.1	94.2	70.8	55.1	46.8	42.5	40.0	37.6	37.1
40°	1082.8	460.6	120.5	85.9	62.5	49.8	42.9	39.0	35.6	33.2	32.7
42.5°	1169.1	450.4	110.3	77.6	55.1	44.9	39.5	34.6	31.2	28.8	28.3
45°	1272.1	455.7	101.5	69.3	50.3	41.5	35.1	30.3	26.8	24.4	23.9
47.5°	1382.4	474.8	94.2	61.5	45.4	38.1	31.2	25.9	22.9	20.5	20.0
50°	1497.5	506.0	87.8	54.2	41.5	34.2	26.8	22.4	19.5	17.6	17.1
52.5°	1597.5	548.5	81.5	48.8	38.1	30.3	23.4	19.5	16.6	14.6	14.2
55°	1693.2	588.5	76.6	43.9	34.2	26.3	20.5	16.6	14.2	12.2	11.7
57.5°	1797.1	630.9	70.8	39.5	30.7	23.4	18.1	14.2	12.2	10.2	9.8
60°	1948.4	693.9	62.0	36.1	26.8	20.5	15.6	12.7	10.7	8.3	7.8
62.5°	2166.5	808.5	52.2	31.2	22.9	17.6	13.2	10.7	8.8	6.8	5.9
65°	2574.4	1003.7	42.9	25.9	18.5	14.6	11.2	8.8	6.8	4.9	4.4
67.5°	2868.2	1054.5	34.6	21.0	15.1	11.2	9.3	6.8	4.9	3.4	2.9
70°	2507.6	757.3	26.8	17.1	12.7	8.8	7.3	5.4	3.4	2.4	2.0
72.5°	1889.3	494.8	20.0	13.2	9.8	7.3	5.4	4.4	2.9	2.0	1.5
75°	1331.6	285.9	14.6	9.8	6.8	5.4	4.4	3.4	2.4	1.5	1.5
77.5°	682.6	118.1	10.2	6.8	4.9	3.4	2.9	2.0	2.0	1.5	1.0
80°	207.4	39.0	5.9	4.4	3.4	2.4	1.5	1.5	1.5	1.0	0.5
82.5°	47.3	12.7	3.4	3.4	2.4	2.0	1.5	0.5	0.5	0.0	0.0
85°	12.2	3.9	2.9	2.4	2.4	2.0	1.0	0.5	0.0	0.0	0.0
87.5°	4.4	2.4	2.4	2.4	2.0	1.5	1.0	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)