

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: P631835

Luminaire Tested: GWS-SA2B-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631835
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-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: 5169.4 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

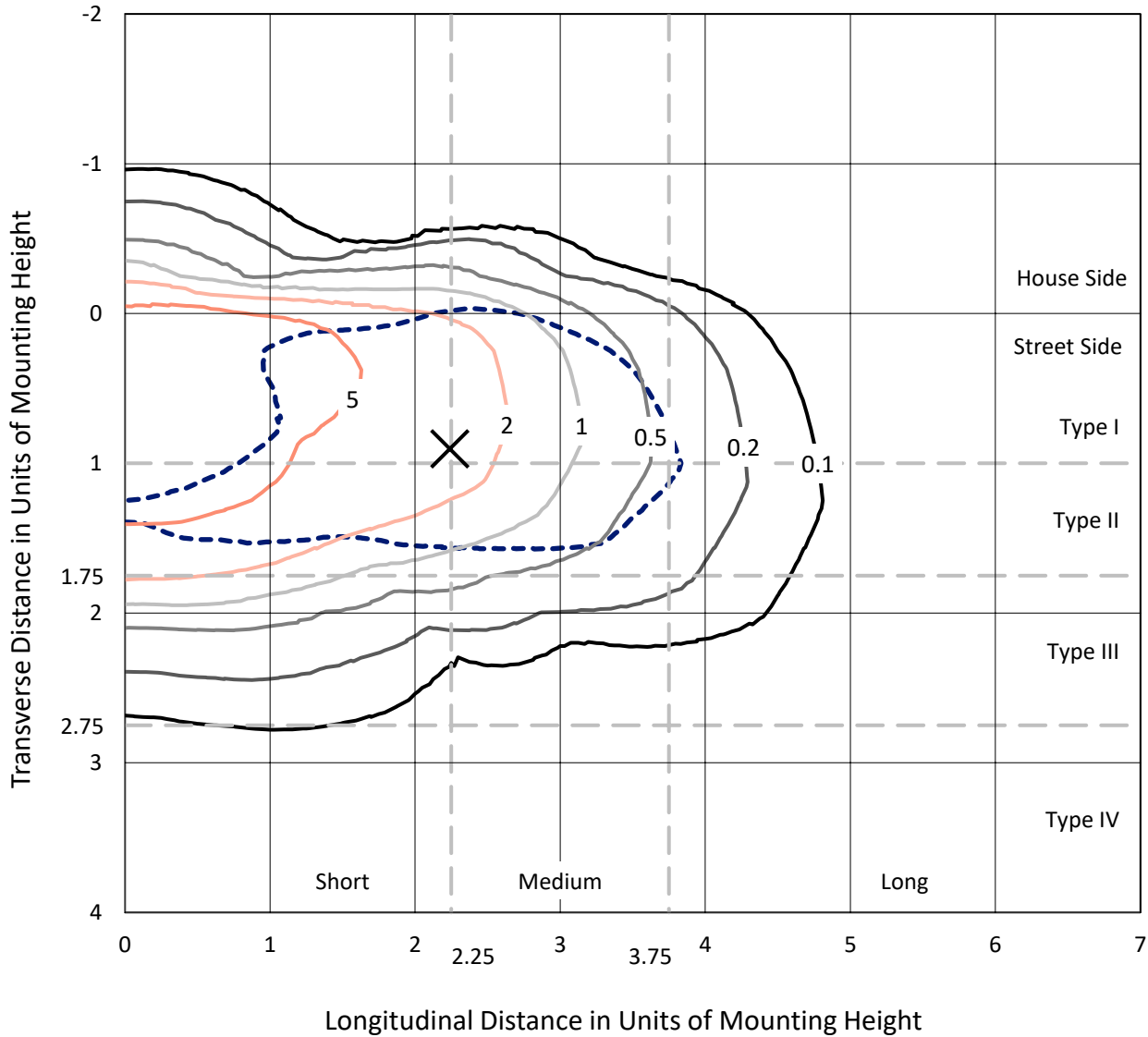
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

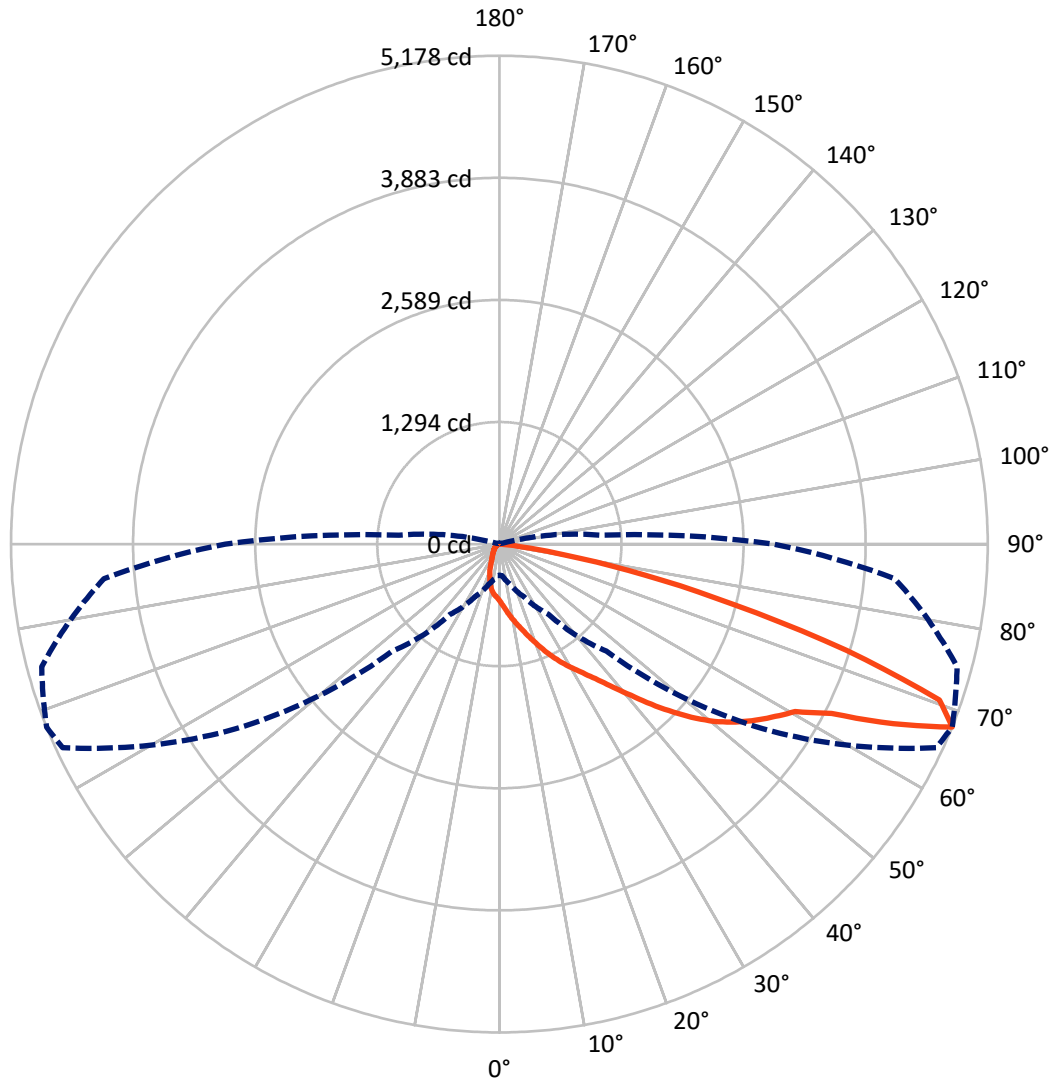
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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	373.3	0.0	373.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4796.1	0.0	4796.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	5169.4	0.0	5169.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.1
10°-20°	168.5	3.3
20°-30°	289.5	5.6
30°-40°	503.4	9.7
40°-50°	878.4	17.0
50°-60°	1324.9	25.6
60°-70°	1328.5	25.7
70°-80°	586.1	11.3
80°-90°	31.3	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°	5169.4	100.0
0°-180°	5169.4	100.0

Coefficient of Utilization



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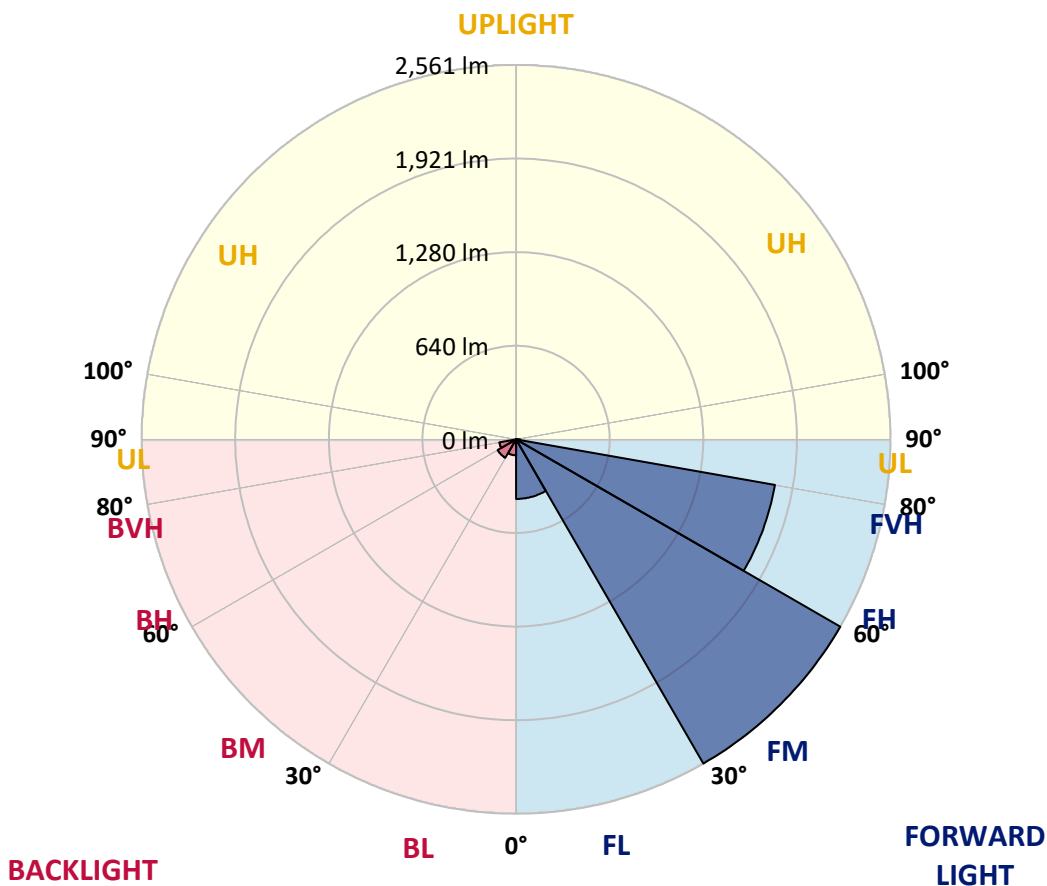
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.5	7.9			
FM (30°-60°)	2560.9	49.5			
FH (60°-80°)	1798.2	34.8			G1/1800
FVH (80°-90°)	29.5	0.6			G1/100
BL (0°-30°)	109.2	2.1	B0/110		
BM (30°-60°)	145.8	2.8	B0/220		
BH (60°-80°)	116.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.8	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°	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6
2.5°	700.5	705.0	700.5	701.5	688.7	682.7	669.9	652.0	647.6	636.2	618.9
5°	786.1	790.1	785.6	784.6	769.8	758.9	737.6	707.0	698.1	675.8	641.7
7.5°	832.6	835.1	836.6	839.1	833.6	824.7	805.4	767.3	757.9	721.8	673.8
10°	837.6	839.5	847.0	861.8	872.7	878.1	867.3	832.1	817.3	782.2	713.4
12.5°	823.7	826.7	838.6	863.3	893.5	921.2	928.1	897.4	884.1	839.1	759.9
15°	805.4	807.9	824.2	857.9	903.4	954.3	983.0	969.7	954.8	907.8	811.4
17.5°	777.2	780.7	803.4	848.9	907.8	980.5	1042.4	1046.8	1036.5	985.5	868.2
20°	761.4	763.9	784.1	831.1	904.9	999.8	1097.8	1139.8	1128.5	1075.0	933.5
22.5°	774.7	776.7	790.1	826.7	895.0	1010.7	1149.2	1232.9	1226.4	1171.0	1002.3
25°	845.0	851.4	843.5	849.9	899.4	1016.7	1190.8	1325.9	1327.3	1271.4	1073.6
27.5°	987.5	979.1	960.3	928.1	934.0	1032.5	1226.4	1413.4	1426.3	1369.4	1136.9
30°	1132.4	1127.5	1116.1	1066.1	1024.6	1067.6	1256.6	1503.0	1523.3	1465.9	1193.3
32.5°	1295.2	1300.1	1279.9	1220.0	1149.2	1138.9	1287.8	1588.1	1626.2	1575.2	1259.6
35°	1489.6	1491.1	1451.0	1384.7	1304.6	1256.6	1343.7	1682.1	1752.3	1714.7	1348.1
37.5°	1679.1	1688.0	1666.2	1561.8	1490.6	1403.0	1436.2	1802.8	1901.7	1886.9	1459.4
40°	1846.8	1860.7	1853.7	1752.8	1659.3	1585.6	1579.7	1944.3	2082.3	2099.1	1606.4
42.5°	1980.4	1989.3	1994.7	1923.0	1840.4	1798.8	1756.8	2108.5	2295.5	2364.3	1786.5
45°	2121.4	2124.4	2135.7	2087.2	2015.0	2018.5	1966.0	2307.9	2520.1	2658.2	1993.3
47.5°	2301.0	2310.9	2305.4	2254.5	2189.2	2228.2	2182.2	2513.2	2741.8	2971.8	2205.0
50°	2519.6	2530.0	2525.1	2465.7	2393.0	2409.3	2380.6	2712.6	2955.5	3267.7	2381.1
52.5°	2632.4	2640.8	2702.2	2728.9	2690.8	2586.9	2549.8	2931.7	3136.1	3511.1	2542.9
55°	2578.0	2584.0	2717.5	2830.3	2969.8	2865.9	2720.0	3100.9	3295.4	3701.0	2663.1
57.5°	2352.4	2384.6	2566.1	2757.1	3050.5	3141.5	2996.1	3285.0	3448.7	3833.1	2781.3
60°	1889.9	1888.4	2148.6	2491.4	2893.2	3217.2	3385.9	3533.8	3602.6	3934.6	2939.7
62.5°	1044.4	1053.8	1400.1	1851.8	2455.8	3021.3	3678.3	3963.7	3953.4	4111.7	3187.5
65°	520.0	538.8	726.8	1060.7	1634.1	2496.9	3728.7	4619.8	4590.1	4528.7	3699.6
67.5°	330.0	337.4	441.3	616.4	908.3	1604.9	3414.6	5109.0	5177.8	5023.4	4207.6
70°	213.7	226.1	306.7	421.5	548.2	827.2	2501.3	4791.9	4949.7	4969.0	3891.0
72.5°	116.3	125.2	195.9	300.8	395.8	413.6	1405.0	3596.2	3850.0	4215.1	3044.0
75°	66.3	72.7	107.4	204.3	290.4	251.8	622.9	2407.3	2569.1	3012.4	2181.2
77.5°	40.1	45.5	60.4	99.4	182.1	168.2	235.5	1465.4	1568.3	1797.3	1144.8
80°	18.3	21.8	38.1	54.9	99.4	79.7	90.0	683.2	705.5	737.6	379.0
82.5°	8.4	9.9	17.3	32.7	56.4	46.0	34.6	157.8	222.1	210.3	96.5
85°	1.0	1.0	6.4	13.4	15.8	11.9	14.3	35.6	45.0	63.3	27.7
87.5°	0.0	0.0	0.5	0.5	1.0	1.5	3.0	4.5	6.4	10.4	6.9
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°	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6	601.6
2.5°	611.0	597.1	584.8	566.5	554.1	540.2	530.8	519.5	515.0	511.5	506.6
5°	624.8	602.6	572.4	538.8	511.1	484.8	460.6	444.8	430.9	428.9	422.0
7.5°	647.6	614.4	563.5	508.6	461.6	418.0	383.9	356.2	342.4	337.9	330.0
10°	677.8	632.3	550.1	466.0	398.3	346.3	307.7	276.6	254.8	246.9	240.9
12.5°	711.4	648.6	528.9	413.6	336.4	277.0	228.1	194.9	181.1	176.1	171.7
15°	750.0	663.9	495.2	361.1	276.1	203.8	169.2	154.8	148.9	147.4	145.9
17.5°	787.1	673.8	455.1	306.7	212.2	158.3	142.0	136.5	135.1	133.6	132.6
20°	829.2	680.7	408.1	255.3	164.7	134.1	126.2	122.2	119.2	116.3	115.8
22.5°	872.2	680.7	357.2	204.8	138.0	120.2	111.3	103.9	98.5	95.5	94.5
25°	913.3	671.3	306.7	163.8	121.7	106.9	95.5	87.1	79.7	76.2	75.2
27.5°	942.5	647.1	262.7	138.5	110.3	95.0	81.1	71.7	65.8	62.3	61.8
30°	960.8	611.0	222.1	123.7	100.4	82.6	68.8	60.9	56.4	53.9	52.9
32.5°	974.6	566.5	186.0	113.3	91.0	71.7	59.9	53.4	49.5	47.5	47.0
35°	1002.3	524.4	159.3	103.9	81.1	62.8	52.4	47.5	44.5	42.1	41.6
37.5°	1040.9	489.3	138.0	95.5	71.7	55.9	47.5	43.0	40.6	38.1	37.6
40°	1097.8	467.0	122.2	87.1	63.3	50.5	43.5	39.6	36.1	33.6	33.1
42.5°	1185.4	456.6	111.8	78.7	55.9	45.5	40.1	35.1	31.7	29.2	28.7
45°	1289.8	462.1	102.9	70.3	51.0	42.1	35.6	30.7	27.2	24.7	24.2
47.5°	1401.6	481.4	95.5	62.3	46.0	38.6	31.7	26.2	23.3	20.8	20.3
50°	1518.3	513.0	89.1	54.9	42.1	34.6	27.2	22.8	19.8	17.8	17.3
52.5°	1619.7	556.1	82.6	49.5	38.6	30.7	23.7	19.8	16.8	14.8	14.3
55°	1716.7	596.6	77.7	44.5	34.6	26.7	20.8	16.8	14.3	12.4	11.9
57.5°	1822.1	639.7	71.7	40.1	31.2	23.7	18.3	14.3	12.4	10.4	9.9
60°	1975.4	703.5	62.8	36.6	27.2	20.8	15.8	12.9	10.9	8.4	7.9
62.5°	2196.6	819.8	52.9	31.7	23.3	17.8	13.4	10.9	8.9	6.9	5.9
65°	2610.2	1017.7	43.5	26.2	18.8	14.8	11.4	8.9	6.9	4.9	4.5
67.5°	2908.0	1069.1	35.1	21.3	15.3	11.4	9.4	6.9	4.9	3.5	3.0
70°	2542.4	767.8	27.2	17.3	12.9	8.9	7.4	5.4	3.5	2.5	2.0
72.5°	1915.6	501.7	20.3	13.4	9.9	7.4	5.4	4.5	3.0	2.0	1.5
75°	1350.1	289.9	14.8	9.9	6.9	5.4	4.5	3.5	2.5	1.5	1.5
77.5°	692.1	119.7	10.4	6.9	4.9	3.5	3.0	2.0	2.0	1.5	1.0
80°	210.3	39.6	5.9	4.5	3.5	2.5	1.5	1.5	1.5	1.0	0.5
82.5°	48.0	12.9	3.5	3.5	2.5	2.0	1.5	0.5	0.5	0.0	0.0
85°	12.4	4.0	3.0	2.5	2.5	2.0	1.0	0.5	0.0	0.0	0.0
87.5°	4.5	2.5	2.5	2.5	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)