

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: P633732

Luminaire Tested: GWS-SA2F-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12050.5 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

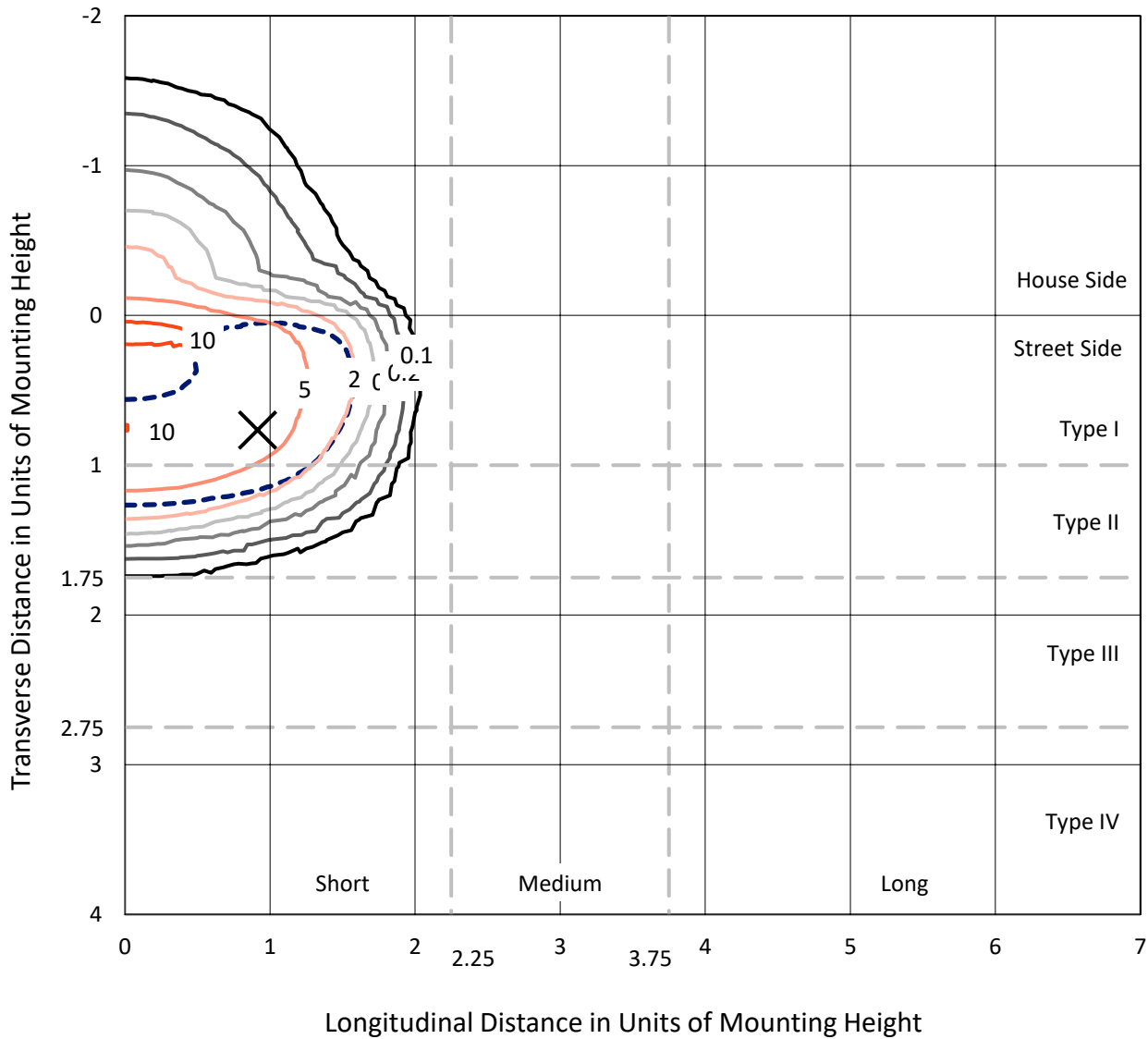
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

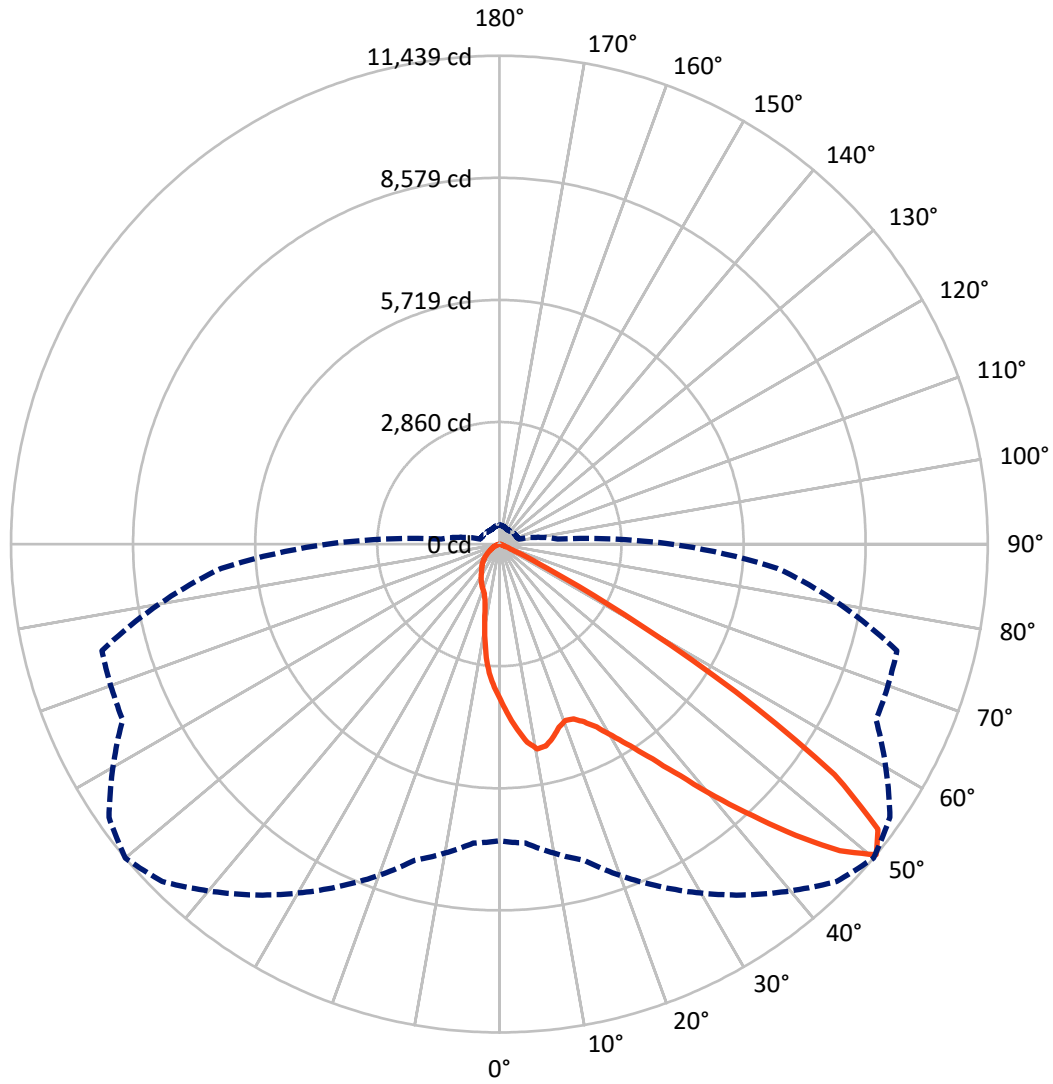
✕ Max cd
 - - - 1/2 Max cd



Based on 20 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 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1548.3	0.0	1548.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10502.2	0.0	10502.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	12050.5	0.0	12050.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	2.8
10°-20°	873.8	7.3
20°-30°	1442.1	12.0
30°-40°	2379.7	19.7
40°-50°	3765.3	31.2
50°-60°	2850.7	23.7
60°-70°	356.8	3.0
70°-80°	40.4	0.3
80°-90°	3.1	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°	12050.5	100.0
0°-180°	12050.5	100.0

Coefficient of Utilization



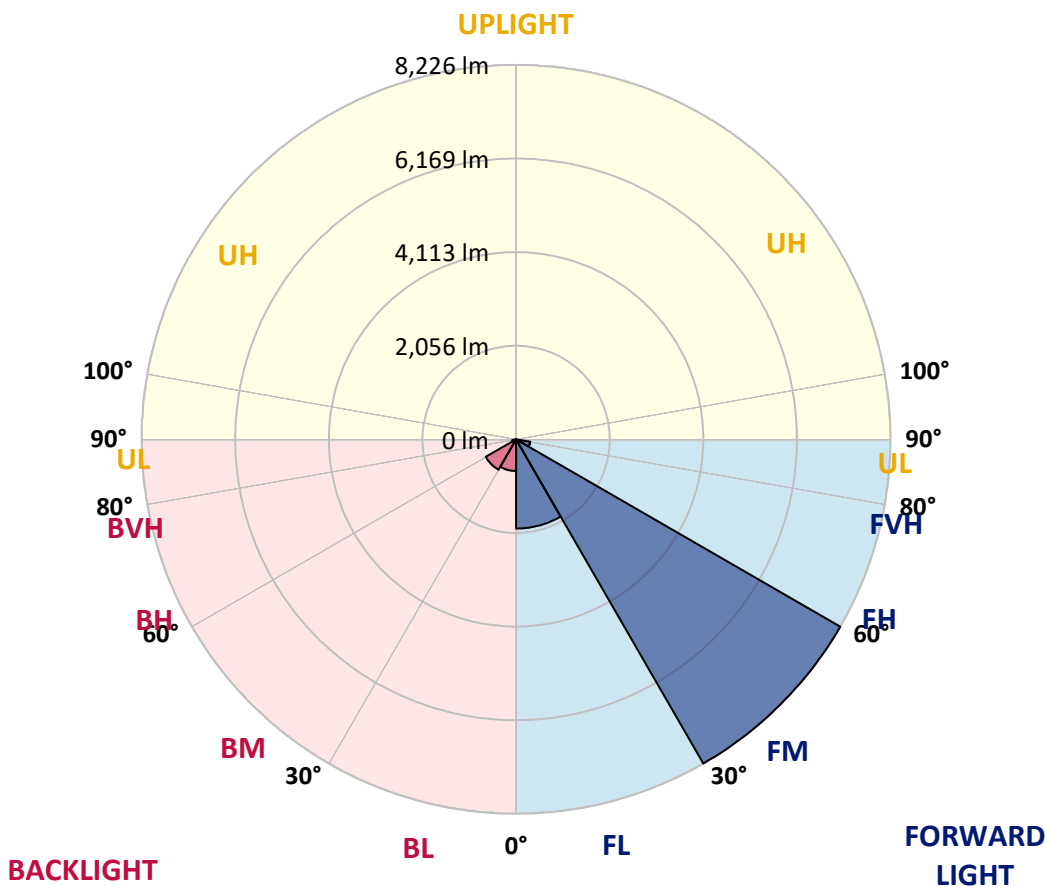
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.6	16.3			
FM (30°-60°)	8225.7	68.3			
FH (60°-80°)	315.4	2.6			G0/660
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	694.9	5.8	B2/1000		
BM (30°-60°)	770.0	6.4	B1/1000		
BH (60°-80°)	81.7	0.7	B0/110		G0/110
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8
2.5°	4160.1	4193.3	4184.2	4140.6	4093.6	4060.3	4008.7	3992.6	3875.6	3794.2	3708.2
5°	4662.5	4672.8	4661.3	4608.5	4526.0	4446.8	4361.9	4312.6	4116.5	3939.9	3759.8
7.5°	4782.9	4770.3	4792.1	4818.4	4807.0	4772.6	4683.1	4629.2	4395.2	4107.3	3834.3
10°	4406.7	4378.0	4459.4	4595.9	4739.3	4901.0	4878.1	4882.7	4667.0	4318.4	3931.8
12.5°	3907.7	3896.3	3957.1	4115.3	4396.4	4763.4	4851.7	4999.7	4915.9	4546.6	4043.1
15°	3688.7	3694.4	3731.1	3830.9	4032.8	4489.3	4701.5	4968.7	5138.4	4768.0	4165.8
17.5°	3721.9	3742.6	3741.4	3774.7	3897.4	4263.3	4511.1	4871.2	5310.5	5022.6	4306.9
20°	3947.9	3968.5	3937.6	3912.3	3953.6	4206.0	4411.3	4772.6	5426.3	5279.5	4456.0
22.5°	4286.2	4310.3	4236.9	4164.7	4138.3	4300.0	4449.1	4732.4	5514.7	5514.7	4589.0
25°	4695.7	4729.0	4615.4	4487.0	4413.6	4498.4	4610.8	4823.0	5605.3	5725.7	4679.7
27.5°	5153.4	5154.5	5057.0	4912.5	4774.9	4785.2	4852.9	5027.2	5705.1	5952.8	4750.8
30°	5668.4	5671.8	5542.2	5369.0	5195.8	5148.8	5206.1	5338.0	5912.7	6238.4	4849.4
32.5°	6333.6	6349.7	6163.8	5909.2	5684.4	5596.1	5629.4	5768.1	6243.0	6596.3	4997.4
35°	7232.8	7250.0	6975.9	6639.8	6282.0	6148.9	6182.2	6322.1	6721.3	7104.4	5233.6
37.5°	8120.6	8143.5	7866.0	7552.8	7061.9	6841.7	6876.1	7009.2	7439.3	7806.3	5612.2
40°	8734.2	8765.2	8679.2	8468.1	8012.8	7723.7	7765.0	7813.2	8229.5	8645.9	6103.1
42.5°	9057.7	9101.2	9138.0	9245.8	9006.1	8764.0	8694.1	8697.5	9033.6	9501.5	6613.5
45°	9077.2	9119.6	9307.7	9724.1	9906.4	9856.0	9728.6	9642.6	9647.2	10071.6	6932.3
47.5°	8446.3	8525.5	8877.6	9693.1	10379.0	10797.6	10733.4	10529.2	9905.3	10109.4	6897.9
50°	6951.8	7029.8	7669.8	8843.2	10034.9	11173.8	11438.8	11164.7	9736.7	9638.0	6543.5
52.5°	5049.0	5057.0	5472.2	6842.9	8640.2	10479.9	11103.9	11077.5	9479.8	9066.8	6059.5
55°	2398.3	2369.7	2836.5	3861.9	5975.7	8476.1	9527.9	9826.1	9115.0	8653.9	5684.4
57.5°	698.5	712.3	919.9	1507.1	2989.0	5417.2	6525.1	7080.3	7481.7	7114.7	4409.0
60°	313.1	314.3	349.8	458.8	995.6	2519.9	3373.3	4060.3	4473.2	4145.2	2187.3
62.5°	227.1	228.2	242.0	259.2	338.4	853.3	1265.1	1686.1	1717.0	1124.0	554.0
65°	189.3	189.3	191.5	191.5	203.0	305.1	384.2	495.5	417.5	309.7	216.8
67.5°	152.5	153.7	156.0	156.0	152.5	152.5	165.2	181.2	193.8	239.7	199.6
70°	119.3	118.1	118.1	119.3	115.8	98.6	106.7	121.6	133.0	187.0	173.2
72.5°	92.9	94.1	92.9	88.3	80.3	58.5	63.1	79.1	84.9	117.0	117.0
75°	70.0	71.1	66.5	50.5	33.3	18.4	24.1	39.0	49.3	57.3	42.4
77.5°	9.2	9.2	6.9	6.9	5.7	6.9	6.9	9.2	13.8	13.8	10.3
80°	1.1	1.1	1.1	2.3	3.4	4.6	4.6	4.6	4.6	5.7	5.7
82.5°	1.1	1.1	1.1	1.1	3.4	3.4	4.6	4.6	4.6	4.6	4.6
85°	0.0	0.0	0.0	1.1	2.3	3.4	3.4	4.6	4.6	4.6	4.6
87.5°	0.0	0.0	0.0	1.1	2.3	3.4	3.4	3.4	4.6	4.6	4.6
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°	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8
2.5°	3656.6	3590.0	3509.7	3454.7	3376.7	3325.1	3251.7	3202.4	3159.9	3126.7	3145.0
5°	3657.7	3552.2	3388.2	3248.2	3095.7	2955.8	2805.5	2687.4	2580.7	2532.5	2558.9
7.5°	3680.6	3529.2	3278.1	3029.2	2736.7	2447.6	2177.0	1956.7	1847.8	1796.2	1812.2
10°	3725.4	3518.9	3155.3	2742.4	2267.6	1873.0	1610.4	1461.2	1400.5	1368.3	1374.1
12.5°	3766.7	3512.0	2995.9	2365.1	1789.3	1453.2	1316.7	1296.1	1308.7	1309.8	1308.7
15°	3822.9	3499.4	2798.6	1977.4	1431.4	1255.9	1259.4	1289.2	1319.0	1328.2	1325.9
17.5°	3882.5	3479.9	2544.0	1605.8	1214.6	1198.6	1238.7	1278.9	1308.7	1313.3	1314.4
20°	3944.4	3439.8	2253.8	1311.0	1113.7	1155.0	1199.7	1229.6	1251.4	1258.2	1260.5
22.5°	3973.1	3354.9	1918.9	1099.9	1046.0	1101.1	1134.4	1173.4	1180.2	1155.0	1159.6
25°	3958.2	3211.5	1592.0	957.7	978.4	1033.4	1082.7	1063.2	1034.6	1016.2	1022.0
27.5°	3911.2	3021.1	1272.0	853.3	906.1	976.1	981.8	960.0	955.4	940.5	945.1
30°	3860.7	2802.1	1023.1	769.6	832.7	906.1	888.9	896.9	898.1	880.9	886.6
32.5°	3829.8	2572.7	814.4	713.4	785.7	799.4	833.9	849.9	851.1	810.9	817.8
35°	3840.1	2346.7	689.3	667.5	742.1	738.7	786.8	796.0	729.5	674.4	680.2
37.5°	3923.8	2138.0	618.2	632.0	666.4	692.8	729.5	668.7	653.8	628.5	632.0
40°	4079.8	1960.2	575.8	610.2	614.8	657.2	601.0	609.0	610.2	594.1	597.6
42.5°	4262.2	1812.2	550.5	597.6	586.1	593.0	536.8	552.8	570.0	563.2	564.3
45°	4353.9	1667.7	528.8	554.0	557.4	492.1	479.4	496.6	518.4	521.9	523.0
47.5°	4272.5	1530.1	505.8	490.9	513.8	448.5	433.6	439.3	464.5	478.3	480.6
50°	4023.6	1371.8	471.4	434.7	422.1	402.6	388.8	390.0	418.6	442.7	447.3
52.5°	3673.8	1206.6	415.2	368.2	339.5	354.4	357.9	351.0	377.4	401.4	406.0
55°	3334.3	1000.2	329.2	299.4	273.0	305.1	314.3	305.1	313.1	329.2	330.3
57.5°	2347.9	565.5	252.3	247.7	226.0	261.5	276.4	262.7	248.9	259.2	261.5
60°	1088.5	295.9	193.8	193.8	188.1	224.8	250.0	230.5	204.2	208.7	212.2
62.5°	340.7	187.0	142.2	134.2	153.7	191.5	212.2	192.7	161.7	161.7	166.3
65°	192.7	160.6	112.4	103.2	125.0	153.7	166.3	145.7	118.1	115.8	115.8
67.5°	178.9	152.5	99.8	83.7	88.3	98.6	103.2	89.5	81.4	80.3	81.4
70°	148.0	127.3	80.3	57.3	53.9	52.8	55.1	51.6	49.3	50.5	53.9
72.5°	91.8	76.8	50.5	34.4	29.8	28.7	28.7	28.7	27.5	27.5	27.5
75°	33.3	28.7	22.9	17.2	14.9	13.8	13.8	14.9	13.8	12.6	11.5
77.5°	10.3	9.2	9.2	9.2	8.0	6.9	5.7	5.7	4.6	3.4	3.4
80°	5.7	5.7	5.7	5.7	4.6	4.6	3.4	2.3	1.1	1.1	0.0
82.5°	5.7	5.7	5.7	4.6	4.6	4.6	3.4	2.3	1.1	0.0	0.0
85°	4.6	4.6	4.6	4.6	4.6	4.6	3.4	2.3	1.1	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.4	2.3	1.1	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)