

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: P633599

Luminaire Tested: GWS-SA2F-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9637 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

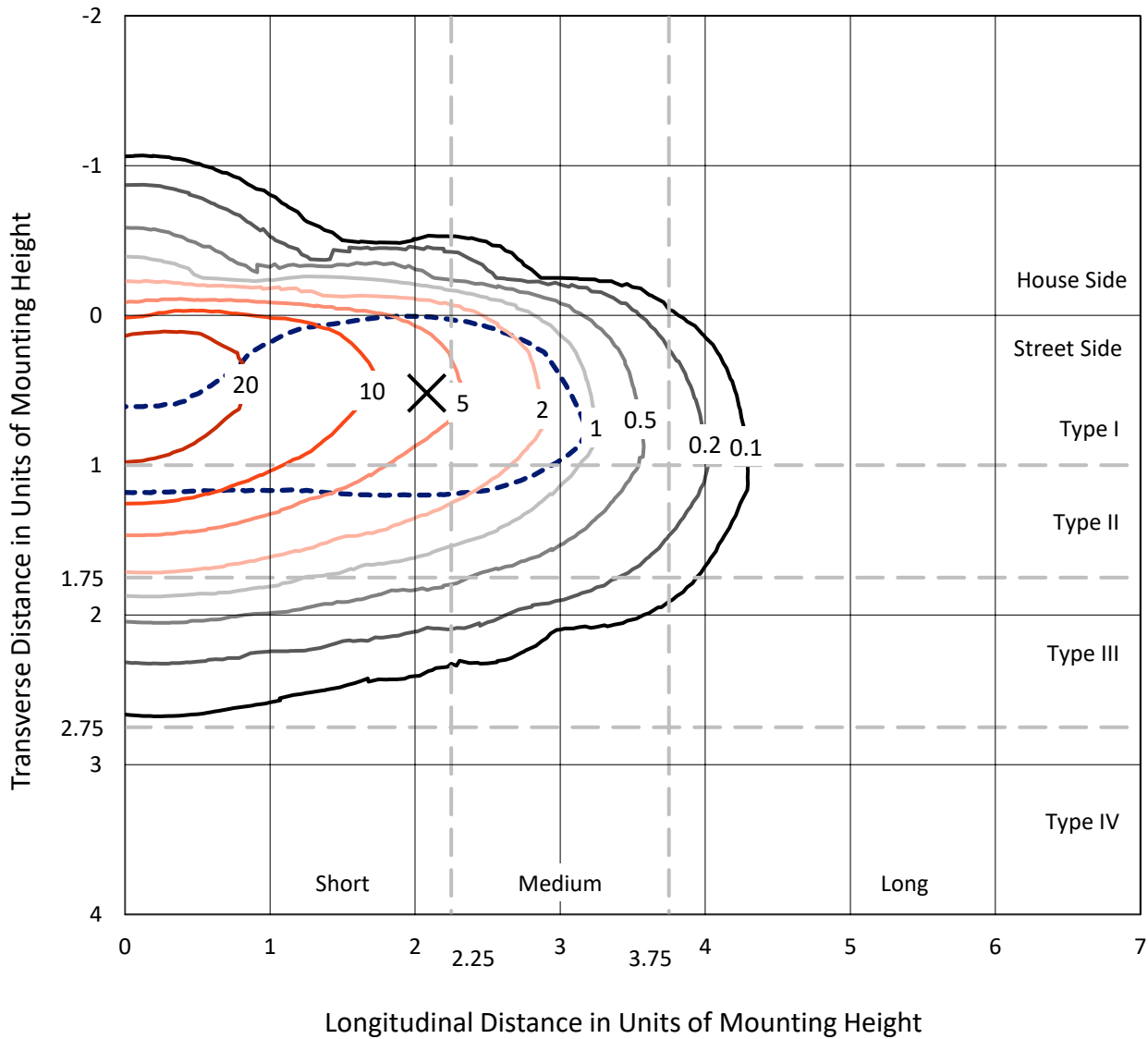
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

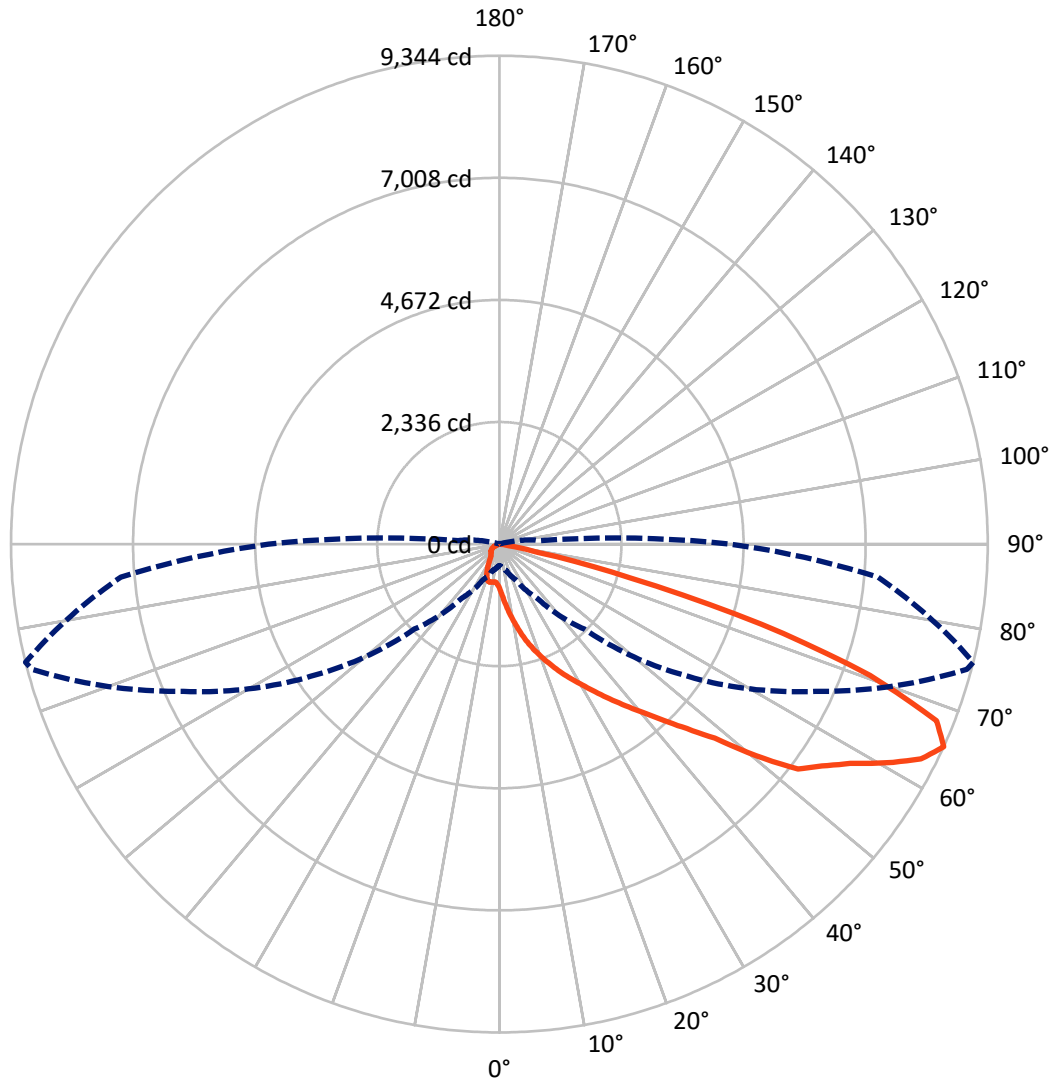
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	532.9	0.0	532.9
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	9104.1	0.0	9104.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	9637.0	0.0	9637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	1.1
10°-20°	393.9	4.1
20°-30°	803.5	8.3
30°-40°	1429.1	14.8
40°-50°	2112.6	21.9
50°-60°	2418.7	25.1
60°-70°	1845.4	19.1
70°-80°	516.9	5.4
80°-90°	13.0	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°	9637.0	100.0
0°-180°	9637.0	100.0

Coefficient of Utilization



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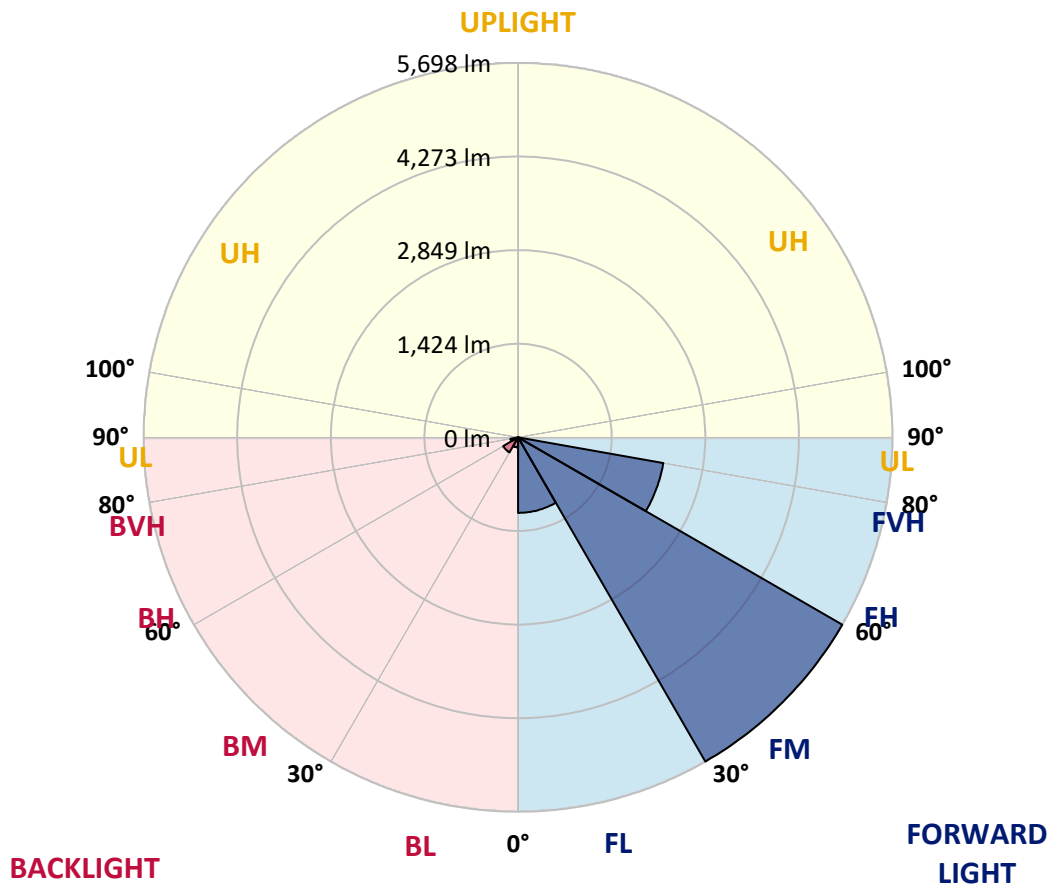
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.1	11.9			
FM (30°-60°)	5697.6	59.1			
FH (60°-80°)	2245.2	23.3			G2/5000
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	152.1	1.6	B1/500		
BM (30°-60°)	262.9	2.7	B1/1000		
BH (60°-80°)	117.1	1.2	B1/500		G1/500
BVH (80°-90°)	0.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2
2.5°	1315.0	1334.7	1319.2	1293.5	1243.9	1195.9	1134.2	1049.4	981.7	973.2	909.8
5°	1775.8	1774.1	1740.7	1707.3	1655.1	1572.8	1448.6	1291.0	1139.3	1126.5	984.3
7.5°	2050.0	2052.5	2033.7	2008.0	1956.6	1871.8	1742.4	1552.3	1330.4	1304.7	1086.2
10°	2280.4	2279.6	2265.8	2253.9	2207.6	2151.1	2012.3	1803.3	1536.0	1495.7	1200.2
12.5°	2453.5	2459.4	2466.3	2478.3	2458.6	2402.9	2271.8	2044.0	1744.1	1699.6	1330.4
15°	2590.5	2592.2	2617.9	2664.2	2680.5	2651.3	2532.3	2277.0	1949.7	1911.2	1480.3
17.5°	2631.6	2635.1	2678.8	2763.6	2849.2	2865.5	2775.6	2511.7	2151.9	2110.8	1625.9
20°	2718.2	2725.9	2758.4	2833.0	2940.9	3028.3	2993.1	2749.0	2354.1	2300.1	1775.0
22.5°	2990.6	2994.9	2983.7	2993.1	3048.8	3149.9	3171.3	2978.6	2561.4	2504.0	1936.0
25°	3459.2	3460.9	3382.9	3309.2	3267.3	3286.1	3333.2	3190.2	2767.0	2710.4	2085.9
27.5°	3945.7	3951.7	3858.4	3733.3	3583.4	3497.7	3484.0	3383.8	2974.3	2911.8	2234.2
30°	4404.1	4404.1	4305.5	4153.1	3952.6	3785.5	3687.0	3579.1	3196.2	3127.6	2385.8
32.5°	4816.1	4812.7	4686.7	4521.4	4323.5	4140.2	3932.9	3783.0	3442.9	3366.6	2560.5
35°	5156.2	5147.6	5004.6	4846.1	4634.5	4498.3	4267.0	4002.3	3710.2	3633.9	2740.4
37.5°	5413.2	5403.8	5272.7	5104.8	4908.6	4820.4	4626.8	4265.3	3992.0	3922.6	2940.0
40°	5552.8	5534.0	5443.2	5318.1	5153.6	5076.5	4996.0	4591.7	4323.5	4237.0	3175.6
42.5°	5593.9	5571.7	5511.7	5453.5	5354.1	5293.3	5379.8	4960.0	4687.6	4613.1	3444.6
45°	5472.3	5459.4	5454.3	5496.3	5514.3	5531.4	5744.7	5367.8	5089.4	5032.8	3783.0
47.5°	5179.3	5175.9	5221.3	5396.1	5586.2	5767.0	6141.3	5870.6	5610.2	5549.4	4255.9
50°	4637.9	4673.0	4799.8	5106.5	5486.9	5900.6	6512.3	6568.0	6453.2	6364.1	4872.6
52.5°	3791.5	3859.2	4143.6	4609.6	5156.2	5862.9	6683.6	7126.5	7243.9	7151.3	5314.7
55°	2975.2	3038.5	3292.1	3883.2	4612.2	5576.0	6691.3	7319.2	7575.4	7489.7	5613.6
57.5°	2216.2	2274.4	2504.9	3070.2	3872.1	5011.4	6508.0	7426.3	7968.6	7913.8	6085.7
60°	1448.6	1506.0	1714.2	2208.5	3003.4	4189.0	6056.5	7404.0	8504.0	8498.9	6665.6
62.5°	803.5	848.9	999.7	1385.2	2096.2	3244.1	5347.2	7180.5	9022.3	9054.8	7143.6
65°	411.2	440.3	532.0	761.6	1268.7	2300.1	4414.3	6668.2	9262.1	9344.4	7269.6
67.5°	269.0	278.4	300.7	395.8	679.3	1446.9	3322.1	5846.7	8924.6	9020.6	6847.2
70°	218.4	226.2	239.0	263.8	350.4	768.4	2181.9	4669.6	7457.2	7522.3	5452.6
72.5°	160.2	170.5	195.3	211.6	252.7	421.5	1135.1	3065.1	5121.1	5235.9	3426.6
75°	118.2	124.2	144.8	167.0	206.5	266.4	434.3	1611.4	2644.5	2577.7	1439.2
77.5°	71.1	75.4	92.5	107.1	147.3	166.2	151.6	595.4	804.4	756.4	347.8
80°	35.1	39.4	60.8	80.5	94.2	66.8	63.4	166.2	179.0	179.0	87.4
82.5°	12.0	15.4	32.6	53.1	46.3	25.7	30.0	42.8	48.0	50.5	25.7
85°	0.0	0.0	7.7	15.4	6.9	3.4	7.7	9.4	12.0	12.8	8.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.6	3.4	3.4
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°	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2	853.2
2.5°	875.5	835.2	774.4	719.6	677.6	638.2	608.2	584.2	580.0	566.2	568.0
5°	914.9	842.1	729.9	643.3	582.5	541.4	507.1	481.4	470.3	459.2	450.6
7.5°	975.7	870.4	712.7	607.4	536.3	472.9	419.8	376.9	356.4	343.5	335.0
10°	1050.3	909.8	713.6	586.0	480.6	383.8	311.0	263.8	241.6	234.7	233.9
12.5°	1139.3	959.5	720.4	550.8	400.1	285.3	230.4	209.0	202.2	196.2	196.2
15°	1233.6	1015.1	720.4	486.6	305.0	222.7	199.6	185.9	177.3	173.9	172.2
17.5°	1333.0	1067.4	703.3	398.3	233.9	196.2	177.3	164.5	157.6	152.5	150.8
20°	1439.2	1117.1	660.5	305.0	200.5	175.6	157.6	144.8	137.9	132.8	132.8
22.5°	1547.1	1163.3	591.1	234.7	177.3	155.9	138.8	126.8	119.9	114.8	114.8
25°	1647.3	1194.2	502.0	193.6	160.2	138.8	123.4	111.4	103.7	100.2	98.5
27.5°	1740.7	1213.9	403.5	170.5	143.9	124.2	107.9	96.8	90.8	88.2	86.5
30°	1837.5	1219.0	308.4	155.1	130.2	109.7	94.2	85.7	80.5	77.1	77.1
32.5°	1931.8	1213.0	235.6	142.2	118.2	96.8	84.0	76.2	72.0	69.4	68.5
35°	2027.7	1185.6	191.0	131.1	106.2	84.8	74.5	68.5	66.0	62.5	62.5
37.5°	2132.2	1148.8	166.2	119.9	94.2	76.2	66.8	62.5	59.1	56.5	55.7
40°	2262.4	1105.9	152.5	110.5	83.1	68.5	60.0	55.7	53.1	50.5	49.7
42.5°	2416.6	1064.0	145.6	100.2	74.5	60.8	54.0	48.8	46.3	42.8	42.0
45°	2635.1	1054.5	137.9	89.1	66.8	54.8	47.1	42.0	38.5	36.0	35.1
47.5°	2986.3	1081.1	125.1	77.1	59.1	48.0	40.3	36.0	31.7	29.1	27.4
50°	3334.9	1074.2	112.2	66.8	52.3	41.1	34.3	30.0	25.7	23.1	22.3
52.5°	3525.1	1041.7	100.2	59.1	45.4	35.1	29.1	24.0	21.4	18.8	18.0
55°	3697.3	1028.8	88.2	51.4	38.5	30.8	24.0	19.7	18.0	15.4	14.6
57.5°	4034.8	1058.8	78.0	44.5	33.4	26.6	20.6	16.3	14.6	12.0	11.1
60°	4387.8	1062.2	66.8	38.5	29.1	22.3	16.3	12.8	11.1	8.6	7.7
62.5°	4572.0	975.7	54.8	32.6	24.0	18.8	13.7	10.3	8.6	5.1	5.1
65°	4417.8	789.0	46.3	26.6	18.8	14.6	10.3	7.7	5.1	2.6	0.9
67.5°	3909.8	561.1	38.5	21.4	13.7	10.3	7.7	5.1	0.9	0.0	0.0
70°	2862.9	320.4	30.0	15.4	10.3	6.9	5.1	2.6	0.0	0.0	0.0
72.5°	1759.6	171.3	22.3	10.3	7.7	5.1	4.3	1.7	0.0	0.0	0.0
75°	667.3	82.2	13.7	6.9	6.0	4.3	2.6	0.9	0.0	0.0	0.0
77.5°	180.8	40.3	7.7	5.1	4.3	2.6	1.7	0.0	0.0	0.0	0.0
80°	47.1	18.8	5.1	3.4	2.6	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	16.3	8.6	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0
85°	6.9	3.4	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.9	0.9	0.9	0.9	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)