

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: P637529

Luminaire Tested: GWS-SA4D-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15127 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

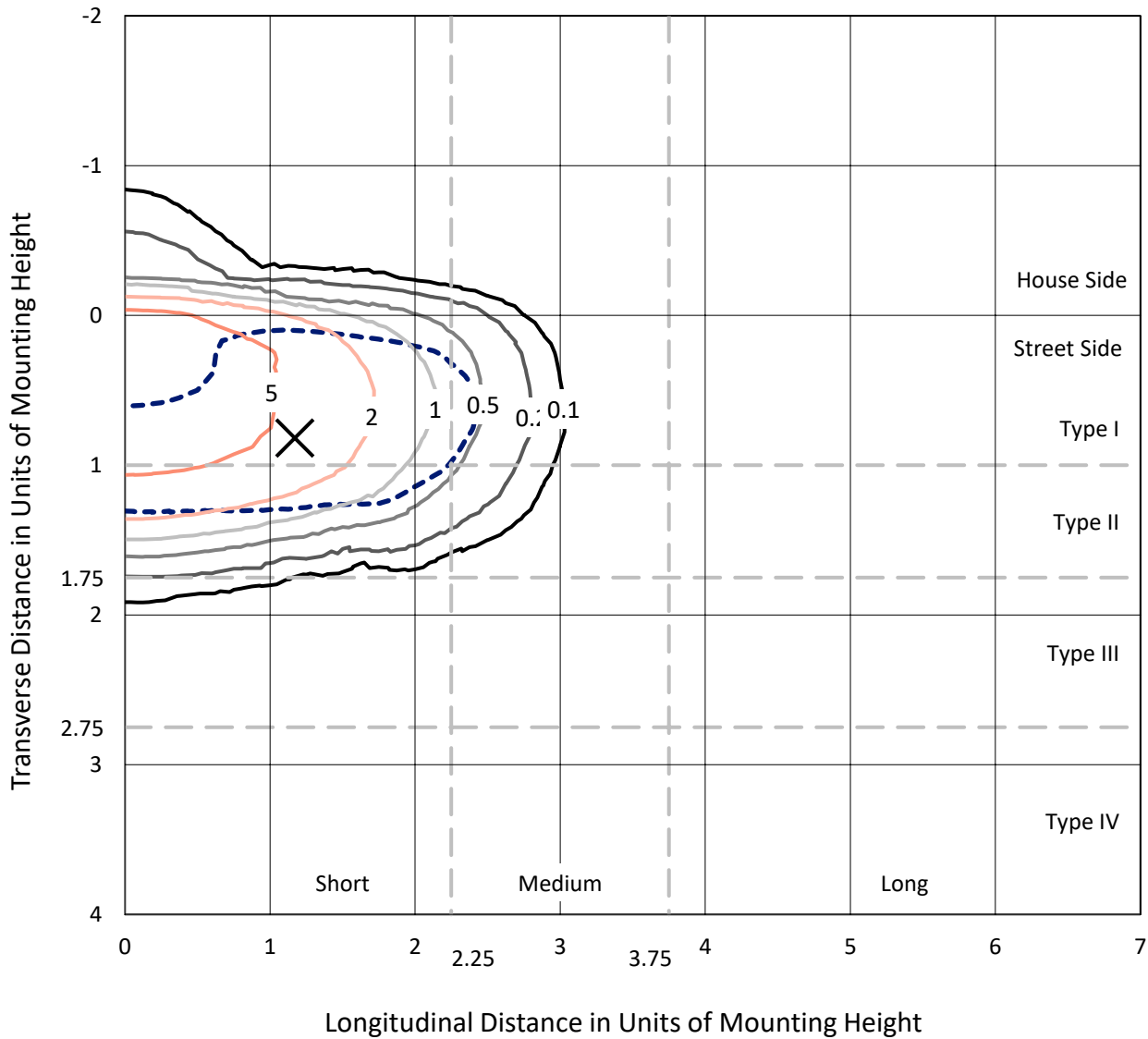
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

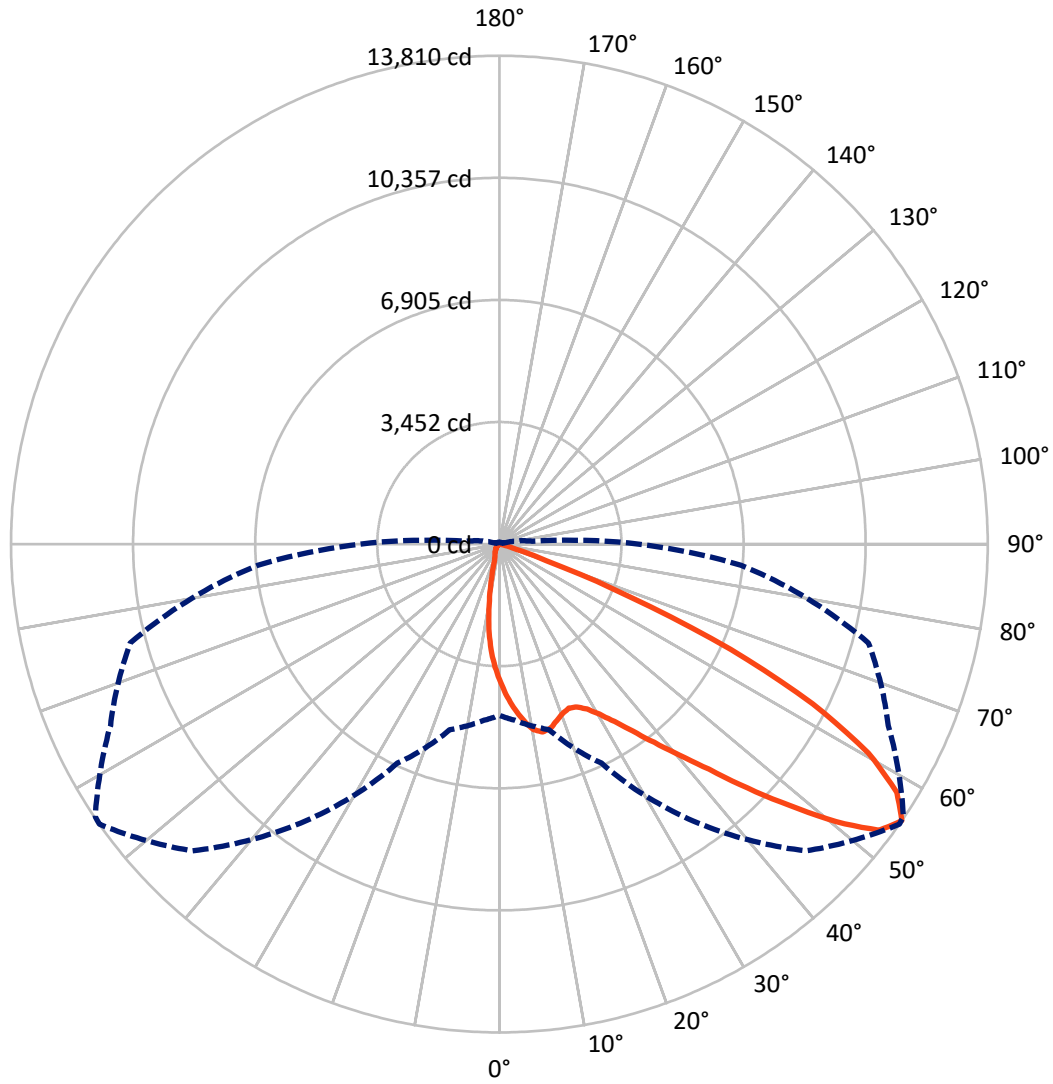
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	933.4	0.0	933.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	14193.6	0.0	14193.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	15127.0	0.0	15127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.4	2.3
10°-20°	832.6	5.5
20°-30°	1386.7	9.2
30°-40°	2363.0	15.6
40°-50°	3857.2	25.5
50°-60°	4038.3	26.7
60°-70°	2036.8	13.5
70°-80°	257.3	1.7
80°-90°	9.8	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°	15127.0	100.0
0°-180°	15127.0	100.0

Coefficient of Utilization



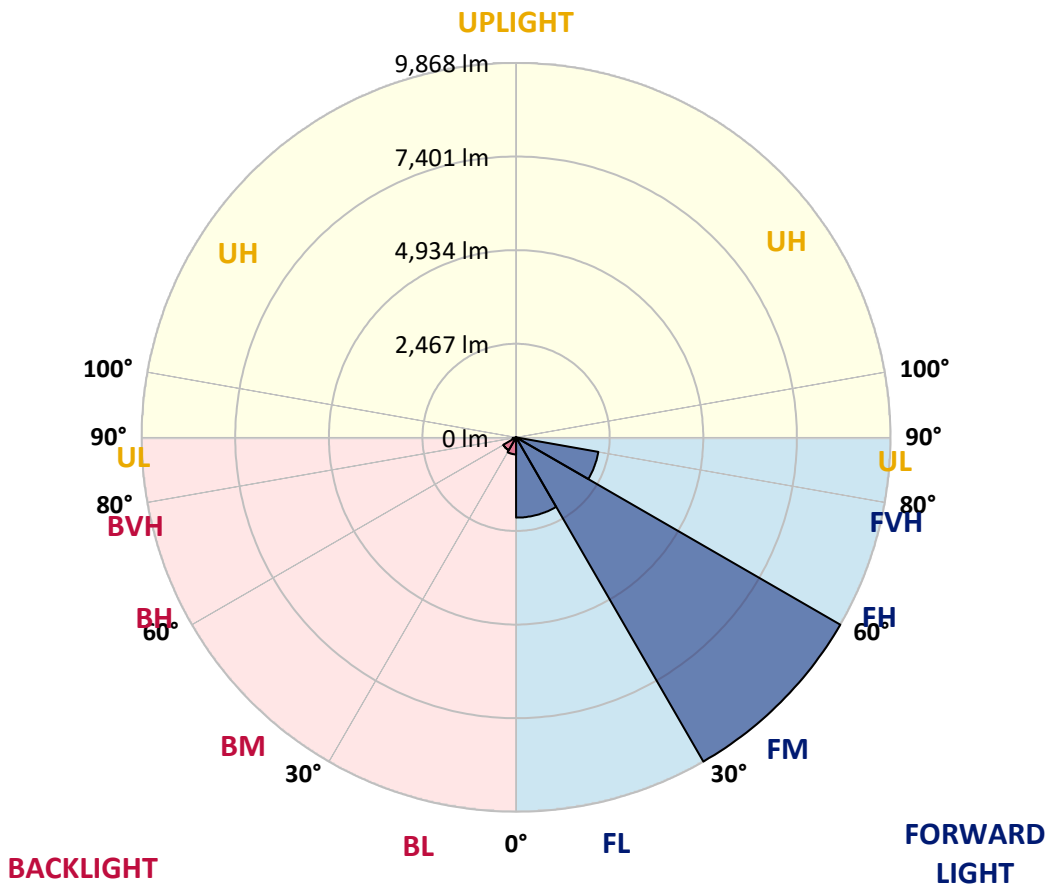
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2116.1	14.0			
FM (30°-60°)	9868.2	65.2			
FH (60°-80°)	2200.5	14.5			G2/5000
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	448.6	3.0	B1/500		
BM (30°-60°)	390.3	2.6	B1/1000		
BH (60°-80°)	93.6	0.6	B0/110		G0/110
BVH (80°-90°)	0.9	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°	56°	65°	75°	85°
0°	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9
2.5°	4555.8	4533.8	4567.4	4528.6	4462.7	4407.1	4334.7	4308.8	4192.4	4082.5	3976.5
5°	5109.3	5115.7	5105.4	5051.1	4958.0	4854.5	4708.4	4676.1	4473.0	4263.5	4037.2
7.5°	5246.4	5242.5	5264.5	5285.1	5269.6	5217.9	5058.8	5026.5	4774.3	4460.1	4130.4
10°	4823.5	4826.1	4871.3	5011.0	5184.3	5364.0	5339.5	5321.4	5074.4	4682.5	4233.8
12.5°	4226.0	4249.3	4297.2	4496.3	4789.9	5198.5	5452.0	5470.1	5349.8	4926.9	4355.4
15°	3967.4	3972.6	4011.4	4131.6	4350.2	4854.5	5404.1	5454.6	5580.0	5172.6	4487.3
17.5°	3961.0	3967.4	3984.2	4037.2	4179.5	4584.3	5250.2	5338.2	5753.3	5436.4	4645.0
20°	4204.1	4200.2	4188.5	4160.1	4222.2	4495.0	5108.0	5205.0	5847.7	5693.8	4804.1
22.5°	4645.0	4639.9	4588.1	4470.5	4420.0	4576.5	5038.2	5126.1	5904.6	5922.7	4934.7
25°	5153.2	5189.5	5092.5	4914.0	4789.9	4784.7	5100.2	5162.3	5953.7	6125.7	5023.9
27.5°	5710.6	5722.2	5639.5	5439.0	5259.3	5118.3	5280.0	5326.5	6008.0	6306.7	5074.4
30°	6322.3	6318.4	6224.0	5991.2	5772.7	5569.6	5582.6	5600.7	6134.8	6513.6	5130.0
32.5°	7086.5	7103.3	6935.2	6618.4	6355.9	6075.3	5978.3	5980.9	6363.6	6780.0	5214.0
35°	8124.9	8083.5	7861.1	7409.8	6962.4	6659.8	6494.3	6480.0	6716.7	7138.2	5360.1
37.5°	9114.2	9118.1	8885.3	8388.7	7823.6	7346.4	7112.4	7073.6	7213.2	7634.8	5603.3
40°	9800.9	9813.8	9716.8	9456.9	8858.1	8183.1	7839.1	7799.1	7857.2	8263.3	5921.4
42.5°	10164.2	10200.4	10227.6	10288.4	9834.5	9228.0	8699.1	8695.2	8634.4	8979.7	6289.9
45°	10178.5	10232.8	10398.3	10813.4	10865.1	10420.3	9844.8	9758.2	9524.1	9746.6	6619.7
47.5°	9615.9	9741.4	10093.1	10915.6	11458.7	11606.1	11035.8	10982.8	10325.9	10353.0	6866.7
50°	8304.7	8435.3	9083.2	10391.8	11608.7	12547.5	12343.2	12233.3	10995.7	10753.9	6985.7
52.5°	6959.8	7078.8	7518.4	9145.2	10986.7	12843.7	13445.0	13314.4	11597.1	10893.6	6936.5
55°	4842.9	5001.9	5431.3	6835.6	9553.9	12266.9	13809.7	13782.5	12133.7	10805.6	6860.2
57.5°	2374.2	2532.0	2960.0	4214.4	7077.5	10710.0	13252.3	13395.8	12454.4	10711.2	6798.1
60°	991.9	1056.5	1203.9	1849.2	3959.7	8093.9	11994.1	12193.2	12257.9	10583.2	6791.7
62.5°	575.5	585.8	601.3	766.8	1540.2	4639.9	9949.6	10232.8	11224.6	10413.8	6689.5
65°	434.5	438.4	431.9	470.7	636.2	1760.0	7188.7	7574.0	9368.9	9751.7	6286.1
67.5°	356.9	356.9	340.1	347.9	399.6	659.5	3968.7	4506.7	6932.6	8015.0	5190.7
70°	284.5	291.0	283.2	272.9	285.8	364.7	1412.1	1750.9	4037.2	4733.0	3027.3
72.5°	216.0	216.0	228.9	221.1	212.1	228.9	492.7	553.5	1620.3	1973.4	1092.7
75°	166.8	172.0	181.0	173.3	160.4	135.8	236.6	250.9	488.8	459.1	244.4
77.5°	85.3	86.6	115.1	126.7	119.0	82.8	103.5	113.8	159.1	142.2	90.5
80°	51.7	54.3	64.7	99.6	78.9	44.0	42.7	45.3	75.0	64.7	37.5
82.5°	22.0	23.3	36.2	36.2	32.3	16.8	16.8	16.8	36.2	33.6	15.5
85°	0.0	0.0	6.5	5.2	5.2	6.5	6.5	6.5	9.1	12.9	7.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	3.9
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°	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9
2.5°	3907.9	3825.2	3714.0	3613.1	3477.3	3401.0	3295.0	3208.3	3134.6	3111.3	3101.0
5°	3909.2	3767.0	3529.0	3291.1	2998.8	2768.7	2532.0	2344.5	2190.6	2141.5	2128.5
7.5°	3935.1	3725.6	3340.2	2908.3	2419.5	2016.0	1655.2	1332.0	1181.9	1131.5	1121.2
10°	3970.0	3690.7	3121.7	2449.2	1747.1	1228.5	870.3	663.4	565.1	510.8	518.6
12.5°	4015.3	3662.2	2879.9	1952.7	1156.1	675.0	478.5	400.9	380.2	369.8	364.7
15°	4076.0	3628.6	2579.9	1460.0	708.7	434.5	368.6	347.9	340.1	334.9	333.6
17.5°	4138.1	3589.8	2274.7	1026.8	470.7	360.8	331.0	320.7	315.5	311.7	310.4
20°	4204.1	3523.9	1916.5	707.4	371.1	324.6	305.2	293.5	287.1	280.6	279.3
22.5°	4232.5	3417.8	1573.8	495.3	329.8	298.7	274.2	259.9	252.2	247.0	247.0
25°	4205.4	3245.8	1219.5	376.3	300.0	270.3	245.7	230.2	223.7	218.5	218.5
27.5°	4132.9	3024.7	889.7	311.7	267.7	240.5	217.3	203.0	197.9	195.3	195.3
30°	4052.8	2745.4	627.2	267.7	231.5	209.5	190.1	181.0	179.7	177.2	177.2
32.5°	3984.2	2484.2	431.9	235.4	204.3	182.3	169.4	165.5	166.8	164.2	165.5
35°	3946.7	2228.1	320.7	209.5	182.3	161.6	155.2	155.2	155.2	153.9	153.9
37.5°	3962.2	1975.9	261.2	191.4	162.9	147.4	141.0	143.5	146.1	146.1	146.1
40°	4039.8	1752.2	231.5	174.6	146.1	134.5	129.3	133.2	137.1	139.7	139.7
42.5°	4138.1	1571.2	209.5	160.4	134.5	121.6	119.0	122.9	126.7	129.3	129.3
45°	4200.2	1388.9	187.5	142.2	122.9	107.3	107.3	112.5	111.2	112.5	112.5
47.5°	4228.6	1244.0	165.5	122.9	104.7	93.1	94.4	97.0	94.4	97.0	97.0
50°	4158.8	1097.9	146.1	102.2	86.6	81.5	84.1	82.8	82.8	87.9	87.9
52.5°	4030.8	989.3	129.3	86.6	73.7	72.4	75.0	69.8	71.1	71.1	69.8
55°	3936.4	927.2	115.1	75.0	63.4	64.7	63.4	54.3	49.1	44.0	42.7
57.5°	3889.8	902.6	104.7	67.2	56.9	56.9	51.7	37.5	28.4	22.0	19.4
60°	3879.5	872.9	94.4	58.2	50.4	47.8	37.5	22.0	14.2	10.3	9.1
62.5°	3781.2	800.5	85.3	46.6	44.0	38.8	23.3	12.9	7.8	5.2	3.9
65°	3459.2	658.2	76.3	36.2	33.6	28.4	14.2	7.8	3.9	1.3	0.0
67.5°	2751.8	466.8	67.2	27.2	23.3	18.1	9.1	5.2	1.3	0.0	0.0
70°	1586.7	252.2	55.6	19.4	15.5	11.6	6.5	2.6	0.0	0.0	0.0
72.5°	530.2	117.7	42.7	12.9	11.6	9.1	3.9	1.3	0.0	0.0	0.0
75°	116.4	69.8	28.4	9.1	7.8	6.5	2.6	0.0	0.0	0.0	0.0
77.5°	44.0	49.1	14.2	6.5	5.2	3.9	1.3	0.0	0.0	0.0	0.0
80°	16.8	32.3	6.5	3.9	3.9	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.1	12.9	3.9	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	6.5	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	1.3	1.3	0.0	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)