

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: P639289

Luminaire Tested: GWS-SA5B-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639289
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-SA5B-750-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15231.2 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

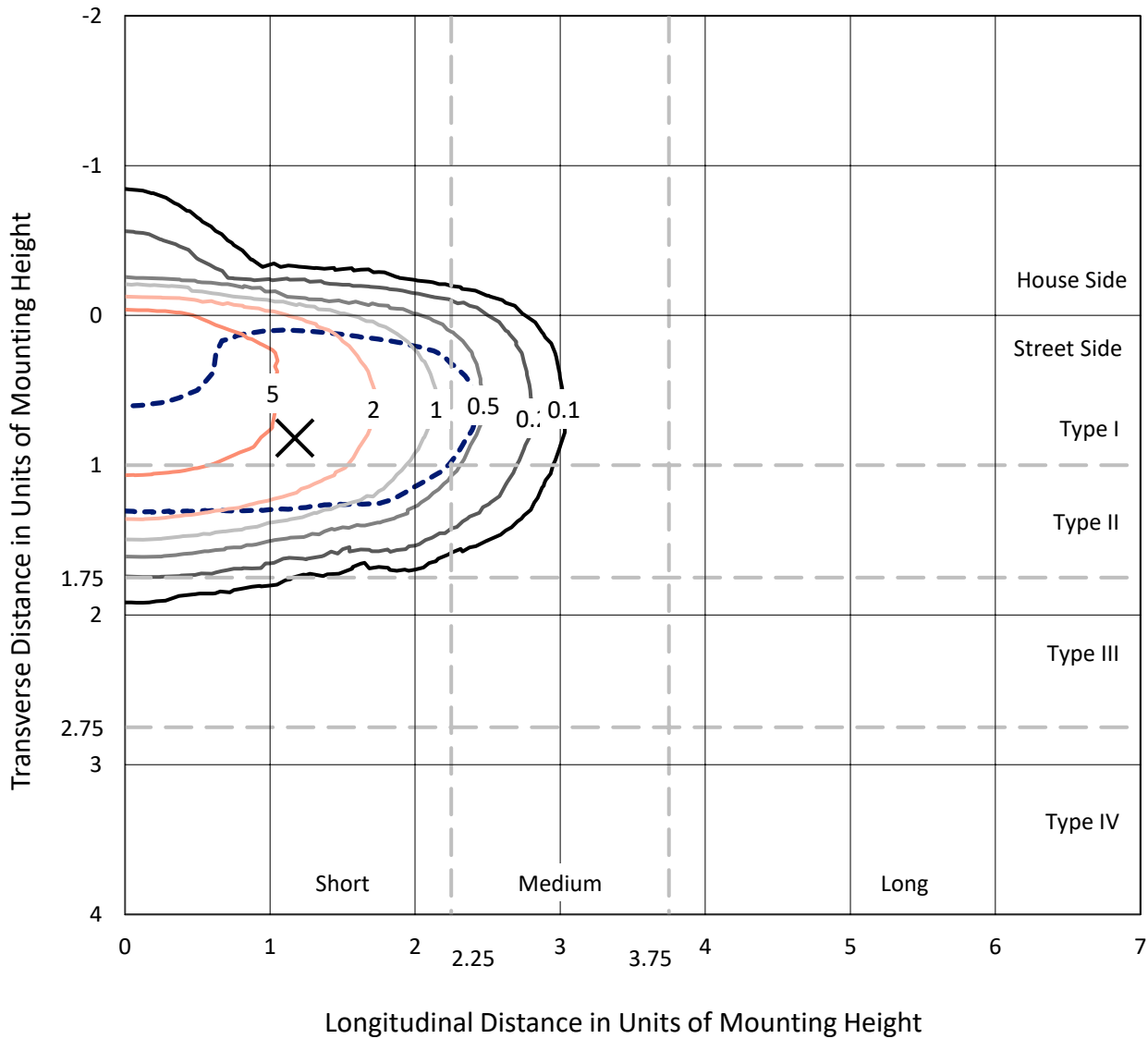
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

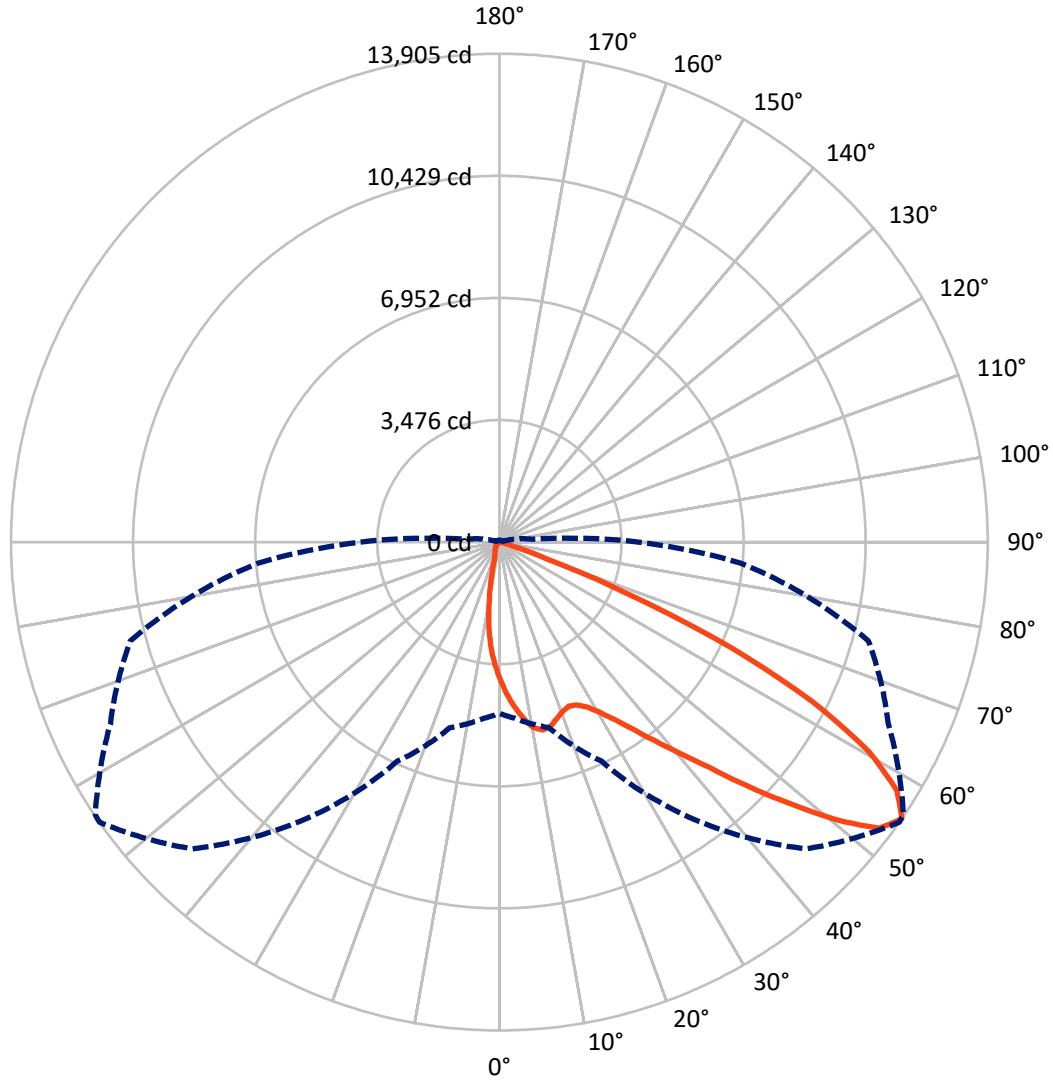
✕ Max cd
 - - - 1/2 Max cd



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	939.8	0.0	939.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	14291.4	0.0	14291.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	15231.2	0.0	15231.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.7	2.3
10°-20°	838.4	5.5
20°-30°	1396.2	9.2
30°-40°	2379.2	15.6
40°-50°	3883.8	25.5
50°-60°	4066.1	26.7
60°-70°	2050.9	13.5
70°-80°	259.1	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°	15231.2	100.0
0°-180°	15231.2	100.0

Coefficient of Utilization



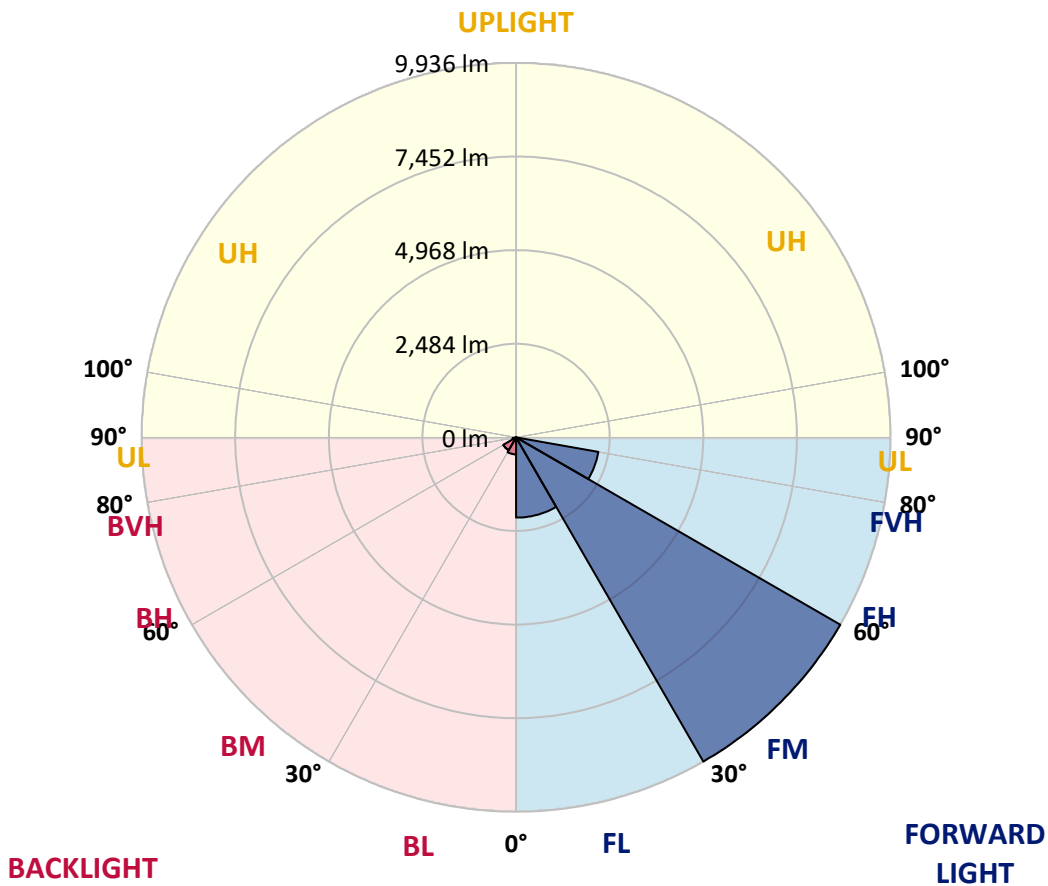
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2130.6	14.0			
FM (30°-60°)	9936.2	65.2			
FH (60°-80°)	2215.6	14.5			G2/5000
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	451.7	3.0	B1/500		
BM (30°-60°)	392.9	2.6	B1/1000		
BH (60°-80°)	94.3	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°	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8
2.5°	4587.2	4565.1	4598.9	4559.8	4493.4	4437.4	4364.5	4338.5	4221.3	4110.6	4003.9
5°	5144.5	5151.0	5140.6	5085.9	4992.1	4888.0	4740.8	4708.3	4503.9	4292.9	4065.1
7.5°	5282.5	5278.6	5300.7	5321.6	5305.9	5253.8	5093.7	5061.1	4807.2	4490.8	4158.8
10°	4856.7	4859.3	4904.9	5045.5	5220.0	5401.0	5376.2	5358.0	5109.3	4714.8	4263.0
12.5°	4255.2	4278.6	4326.8	4527.3	4822.9	5234.3	5489.5	5507.7	5386.7	4960.9	4385.4
15°	3994.7	4000.0	4039.0	4160.1	4380.2	4888.0	5441.3	5492.1	5618.4	5208.3	4518.2
17.5°	3988.2	3994.7	4011.7	4065.1	4208.3	4615.8	5286.4	5374.9	5792.9	5473.9	4677.0
20°	4233.0	4229.1	4217.4	4188.8	4251.3	4526.0	5143.2	5240.8	5888.0	5733.0	4837.2
22.5°	4677.0	4671.8	4619.7	4501.2	4450.5	4608.0	5072.9	5161.4	5945.2	5963.5	4968.7
25°	5188.7	5225.2	5127.5	4947.9	4822.9	4817.7	5135.4	5197.9	5994.7	6167.9	5058.5
27.5°	5749.9	5761.7	5678.3	5476.5	5295.5	5153.6	5316.3	5363.2	6049.4	6350.2	5109.3
30°	6365.8	6361.9	6266.9	6032.5	5812.4	5608.0	5621.0	5639.3	6177.0	6558.5	5165.3
32.5°	7135.3	7152.3	6983.0	6664.0	6399.7	6117.1	6019.5	6022.1	6407.5	6826.7	5249.9
35°	8180.9	8139.2	7915.3	7460.9	7010.3	6705.7	6539.0	6524.7	6762.9	7187.4	5397.1
37.5°	9177.0	9180.9	8946.5	8446.5	7877.5	7397.0	7161.4	7122.3	7262.9	7687.4	5641.9
40°	9868.4	9881.4	9783.7	9522.0	8919.2	8239.5	7893.1	7852.8	7911.4	8320.2	5962.2
42.5°	10234.3	10270.7	10298.1	10359.3	9902.2	9291.6	8759.0	8755.1	8693.9	9041.6	6333.3
45°	10248.6	10303.3	10469.9	10887.9	10940.0	10492.1	9912.6	9825.4	9589.7	9813.7	6665.3
47.5°	9682.2	9808.5	10162.6	10990.8	11537.6	11686.1	11111.8	11058.5	10397.0	10424.4	6914.0
50°	8361.9	8493.4	9145.7	10463.4	11688.7	12634.0	12428.2	12317.6	11071.5	10828.0	7033.8
52.5°	7007.7	7127.5	7570.2	9208.2	11062.4	12932.1	13537.6	13406.1	11676.9	10968.6	6984.3
55°	4876.2	5036.4	5468.7	6882.7	9619.7	12351.4	13904.8	13877.4	12217.3	10880.1	6907.5
57.5°	2390.6	2549.4	2980.4	4243.4	7126.2	10783.7	13343.6	13488.1	12540.2	10785.0	6845.0
60°	998.7	1063.8	1212.2	1862.0	3986.9	8149.6	12076.7	12277.2	12342.3	10656.1	6838.5
62.5°	579.4	589.8	605.5	772.1	1550.8	4671.8	10018.1	10303.3	11302.0	10485.6	6735.6
65°	437.5	441.4	434.9	474.0	640.6	1772.1	7238.2	7626.2	9433.5	9818.9	6329.4
67.5°	359.4	359.4	342.4	350.3	402.3	664.1	3996.0	4537.7	6980.4	8070.2	5226.5
70°	286.5	293.0	285.2	274.7	287.8	367.2	1421.9	1763.0	4065.1	4765.6	3048.1
72.5°	217.4	217.4	230.5	222.7	213.5	230.5	496.1	557.3	1631.5	1987.0	1100.2
75°	168.0	173.2	182.3	174.5	161.5	136.7	238.3	252.6	492.2	462.2	246.1
77.5°	85.9	87.2	115.9	127.6	119.8	83.3	104.2	114.6	160.2	143.2	91.1
80°	52.1	54.7	65.1	100.3	79.4	44.3	43.0	45.6	75.5	65.1	37.8
82.5°	22.1	23.4	36.5	36.5	32.6	16.9	16.9	16.9	36.5	33.9	15.6
85°	0.0	0.0	6.5	5.2	5.2	6.5	6.5	6.5	9.1	13.0	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°	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8
2.5°	3934.8	3851.5	3739.5	3638.0	3501.3	3424.4	3317.7	3230.4	3156.2	3132.8	3122.4
5°	3936.2	3792.9	3553.3	3313.8	3019.5	2787.7	2549.4	2360.6	2205.7	2156.2	2143.2
7.5°	3962.2	3751.3	3363.2	2928.4	2436.2	2029.9	1666.6	1341.1	1190.1	1139.3	1128.9
10°	3997.3	3716.1	3143.2	2466.1	1759.1	1237.0	876.3	668.0	569.0	514.3	522.1
12.5°	4042.9	3687.5	2899.7	1966.1	1164.0	679.7	481.8	403.6	382.8	372.4	367.2
15°	4104.1	3653.6	2597.6	1470.0	713.5	437.5	371.1	350.3	342.4	337.2	335.9
17.5°	4166.6	3614.5	2290.3	1033.8	474.0	363.3	333.3	322.9	317.7	313.8	312.5
20°	4233.0	3548.1	1929.7	712.2	373.7	326.8	307.3	295.6	289.1	282.5	281.2
22.5°	4261.7	3441.4	1584.6	498.7	332.0	300.8	276.0	261.7	253.9	248.7	248.7
25°	4234.3	3268.2	1227.9	378.9	302.1	272.1	247.4	231.8	225.3	220.0	220.0
27.5°	4161.4	3045.5	895.8	313.8	269.5	242.2	218.7	204.4	199.2	196.6	196.6
30°	4080.7	2764.3	631.5	269.5	233.1	210.9	191.4	182.3	181.0	178.4	178.4
32.5°	4011.7	2501.3	434.9	237.0	205.7	183.6	170.6	166.7	168.0	165.4	166.7
35°	3973.9	2243.5	322.9	210.9	183.6	162.8	156.2	156.2	156.2	154.9	154.9
37.5°	3989.5	1989.6	263.0	192.7	164.1	148.4	141.9	144.5	147.1	147.1	147.1
40°	4067.7	1764.3	233.1	175.8	147.1	135.4	130.2	134.1	138.0	140.6	140.6
42.5°	4166.6	1582.0	210.9	161.5	135.4	122.4	119.8	123.7	127.6	130.2	130.2
45°	4229.1	1398.4	188.8	143.2	123.7	108.1	108.1	113.3	112.0	113.3	113.3
47.5°	4257.8	1252.6	166.7	123.7	105.5	93.7	95.1	97.7	95.1	97.7	97.7
50°	4187.5	1105.5	147.1	102.9	87.2	82.0	84.6	83.3	83.3	88.5	88.5
52.5°	4058.5	996.1	130.2	87.2	74.2	72.9	75.5	70.3	71.6	71.6	70.3
55°	3963.5	933.6	115.9	75.5	63.8	65.1	63.8	54.7	49.5	44.3	43.0
57.5°	3916.6	908.8	105.5	67.7	57.3	57.3	52.1	37.8	28.6	22.1	19.5
60°	3906.2	878.9	95.1	58.6	50.8	48.2	37.8	22.1	14.3	10.4	9.1
62.5°	3807.2	806.0	85.9	46.9	44.3	39.1	23.4	13.0	7.8	5.2	3.9
65°	3483.0	662.8	76.8	36.5	33.9	28.6	14.3	7.8	3.9	1.3	0.0
67.5°	2770.8	470.0	67.7	27.3	23.4	18.2	9.1	5.2	1.3	0.0	0.0
70°	1597.6	253.9	56.0	19.5	15.6	11.7	6.5	2.6	0.0	0.0	0.0
72.5°	533.8	118.5	43.0	13.0	11.7	9.1	3.9	1.3	0.0	0.0	0.0
75°	117.2	70.3	28.6	9.1	7.8	6.5	2.6	0.0	0.0	0.0	0.0
77.5°	44.3	49.5	14.3	6.5	5.2	3.9	1.3	0.0	0.0	0.0	0.0
80°	16.9	32.6	6.5	3.9	3.9	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.1	13.0	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)