

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: P640013

Luminaire Tested: GWS-SA5D-722-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-722-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

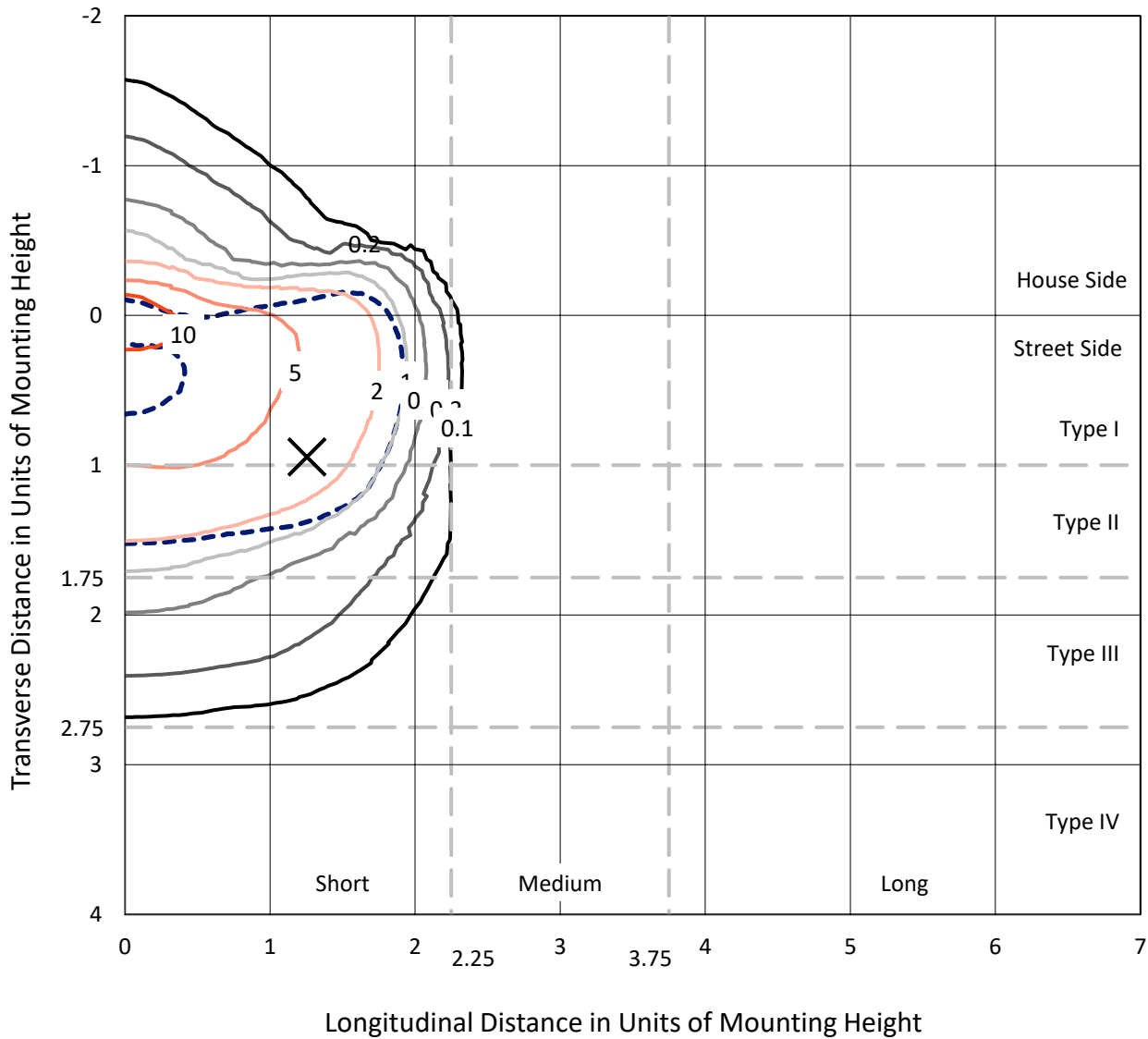
Lumens per Lamp: N/A  
Luminaire Lumens: 12942.6 lumens  
Efficiency: N/A  
Efficacy: 63.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

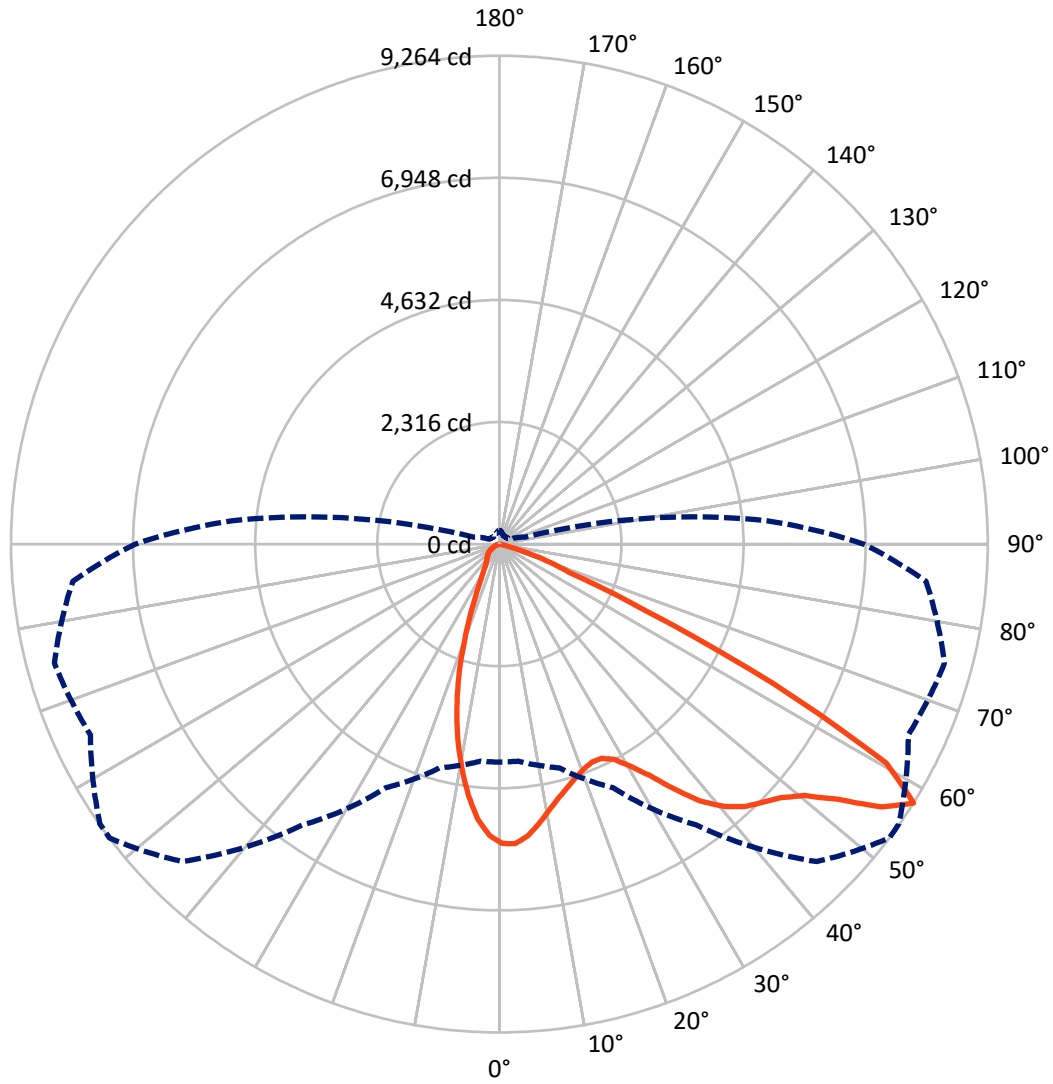
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2138.0	0.0	2138.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	10804.7	0.0	10804.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	12942.6	0.0	12942.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.7	3.8
10°-20°	1066.4	8.2
20°-30°	1389.2	10.7
30°-40°	2015.1	15.6
40°-50°	2907.6	22.5
50°-60°	3516.5	27.2
60°-70°	1433.2	11.1
70°-80°	128.8	1.0
80°-90°	0.0	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°	12942.6	100.0
0°-180°	12942.6	100.0

**Coefficient of Utilization**



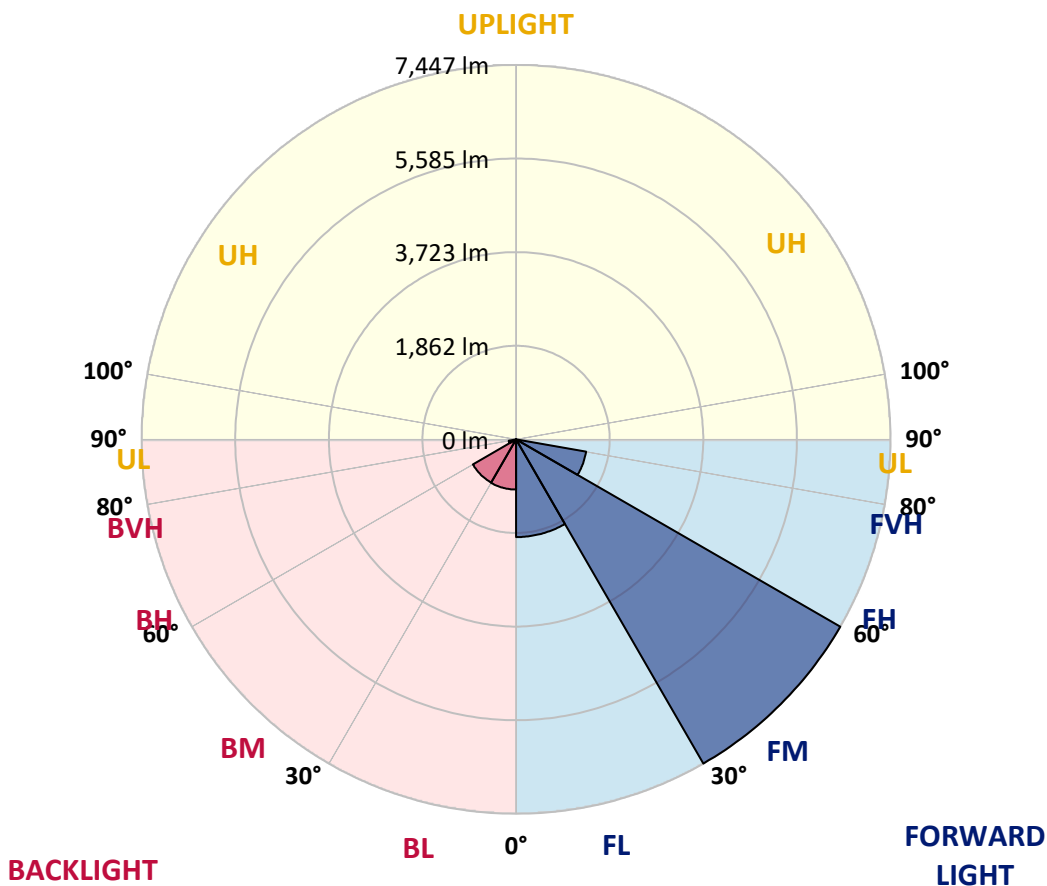
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1943.6	15.0			
FM (30°-60°)	7446.9	57.5			
FH (60°-80°)	1414.2	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	997.8	7.7	B2/1000		
BM (30°-60°)	992.3	7.7	B1/1000		
BH (60°-80°)	147.8	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4
2.5°	5598.0	5610.7	5632.9	5661.5	5680.5	5690.1	5690.1	5717.0	5699.6	5685.3	5669.4
5°	5358.5	5371.2	5401.3	5447.3	5493.4	5526.7	5564.7	5593.3	5604.4	5604.4	5577.4
7.5°	5020.6	5038.1	5057.1	5120.6	5220.5	5295.1	5360.1	5401.3	5461.6	5480.7	5442.6
10°	4657.4	4674.8	4717.7	4804.9	4919.1	5030.2	5141.2	5193.5	5296.7	5350.6	5307.8
12.5°	4349.6	4357.6	4414.7	4519.4	4665.3	4817.6	4952.4	5006.4	5152.3	5233.2	5182.4
15°	4095.8	4100.6	4157.7	4273.5	4441.6	4628.8	4798.6	4854.1	5033.3	5155.5	5079.3
17.5°	3903.9	3905.5	3954.6	4080.0	4256.0	4463.8	4665.3	4733.5	4965.1	5112.6	4998.4
20°	3807.1	3802.4	3837.3	3946.7	4113.3	4321.1	4559.0	4643.1	4927.0	5106.3	4936.6
22.5°	3808.7	3797.6	3811.9	3889.6	4030.8	4225.9	4492.4	4587.6	4930.2	5133.3	4884.2
25°	3899.1	3883.3	3886.4	3927.7	4027.6	4205.3	4501.9	4603.4	4993.7	5223.7	4865.2
27.5°	4051.4	4034.0	4034.0	4054.6	4108.5	4270.3	4620.9	4736.7	5163.4	5399.8	4904.8
30°	4248.1	4230.7	4224.3	4244.9	4289.4	4438.5	4885.8	5006.4	5453.7	5688.5	5031.7
32.5°	4473.4	4452.7	4463.8	4492.4	4535.2	4741.4	5226.9	5387.1	5817.0	6077.1	5260.2
35°	4711.3	4693.9	4744.6	4806.5	4873.1	5161.8	5698.0	5837.6	6262.7	6560.9	5609.2
37.5°	4938.1	4930.2	5036.5	5166.6	5304.6	5666.3	6177.0	6284.9	6645.0	7087.6	6035.9
40°	5165.0	5163.4	5345.8	5574.3	5794.7	6169.1	6540.3	6629.1	6878.2	7496.8	6445.1
42.5°	5418.8	5418.8	5671.0	5975.6	6269.1	6594.2	6806.8	6846.5	6982.9	7733.2	6752.9
45°	5661.5	5675.8	5967.7	6321.4	6668.8	6925.8	6990.8	6994.0	7025.7	7872.8	7008.3
47.5°	5853.4	5866.1	6215.1	6622.8	6997.2	7178.0	7187.5	7173.2	7138.3	8006.0	7205.0
50°	6008.9	6027.9	6392.8	6824.3	7222.4	7420.7	7493.7	7479.4	7390.6	8148.8	7343.0
52.5°	6085.0	6112.0	6454.6	6924.2	7473.1	7836.3	8039.4	8072.7	7768.1	8228.1	7474.6
55°	5475.9	5515.6	5831.2	6473.7	7612.6	8478.8	8797.6	8791.3	8177.4	8464.5	7795.1
57.5°	4135.5	4132.3	4394.0	5096.8	6502.2	8515.3	9264.0	9251.3	8559.7	8738.9	8123.4
60°	2815.7	2796.6	2866.4	3205.9	4546.3	6936.9	8431.2	8602.5	8288.4	8072.7	6897.2
62.5°	2317.6	2300.1	2277.9	2184.3	2611.0	4321.1	5824.9	6085.0	6043.8	5610.7	4325.8
65°	1897.2	1911.5	1973.4	1933.7	1816.3	2216.1	3023.5	3177.4	2904.5	2444.5	1511.7
67.5°	1399.1	1405.5	1486.4	1695.8	1632.3	1475.3	1422.9	1448.3	848.7	390.2	252.2
70°	826.5	831.2	905.8	1186.6	1324.6	1132.6	961.3	947.0	336.3	104.7	114.2
72.5°	468.0	458.4	472.7	564.7	721.8	601.2	494.9	450.5	101.5	58.7	58.7
75°	222.1	215.7	185.6	174.5	158.6	101.5	63.5	53.9	25.4	23.8	23.8
77.5°	1.6	4.8	3.2	4.8	4.8	3.2	1.6	1.6	4.8	4.8	6.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4
2.5°	5640.9	5593.3	5582.2	5579.0	5534.6	5487.0	5437.8	5418.8	5390.2	5372.8	5387.1
5°	5534.6	5466.4	5406.1	5350.6	5252.2	5144.4	5050.8	4990.5	4933.4	4895.3	4904.8
7.5°	5383.9	5295.1	5157.1	5015.9	4835.0	4673.2	4492.4	4381.4	4278.2	4221.1	4248.1
10°	5223.7	5106.3	4885.8	4646.3	4362.3	4108.5	3849.9	3639.0	3516.8	3401.0	3413.7
12.5°	5066.6	4911.2	4581.2	4218.0	3859.5	3485.1	3094.9	2803.0	2603.1	2458.8	2436.6
15°	4920.7	4720.8	4284.6	3805.5	3317.0	2818.9	2320.8	1903.6	1672.0	1529.2	1519.7
17.5°	4790.6	4543.2	3976.9	3374.1	2761.7	2124.1	1551.4	1238.9	1105.7	1043.8	1037.4
20°	4665.3	4363.9	3662.8	2936.2	2155.8	1491.1	1070.8	926.4	883.6	858.2	861.4
22.5°	4544.7	4168.8	3332.8	2450.8	1616.4	1047.0	829.6	774.1	769.4	772.5	774.1
25°	4443.2	3989.5	2993.3	1982.9	1153.2	797.9	693.2	677.3	691.6	712.2	715.4
27.5°	4390.9	3843.6	2661.8	1511.7	834.4	648.8	601.2	607.6	632.9	655.1	658.3
30°	4405.2	3734.1	2319.2	1096.1	642.5	547.3	531.4	544.1	569.5	590.1	593.3
32.5°	4506.7	3678.6	1968.6	797.9	528.2	477.5	471.1	480.6	502.9	518.7	520.3
35°	4708.1	3691.3	1635.5	610.7	453.7	425.1	423.5	429.9	441.0	452.1	453.7
37.5°	5004.8	3794.4	1307.1	507.6	410.9	390.2	383.9	383.9	391.8	396.6	399.7
40°	5323.6	3949.9	1047.0	448.9	380.7	358.5	345.8	341.1	347.4	353.7	355.3
42.5°	5586.9	4105.3	850.3	407.7	356.9	326.8	310.9	307.7	315.7	326.8	330.0
45°	5788.4	4225.9	709.1	374.4	330.0	296.6	279.2	279.2	293.5	312.5	315.7
47.5°	5972.4	4322.7	604.4	344.2	304.6	269.7	252.2	255.4	279.2	304.6	309.3
50°	6097.7	4400.4	526.7	317.3	283.9	247.5	231.6	237.9	266.5	296.6	301.4
52.5°	6232.6	4495.6	475.9	293.5	264.9	230.0	215.7	220.5	252.2	285.5	291.9
55°	6605.3	4814.4	474.3	261.7	231.6	206.2	199.9	201.5	233.2	271.3	279.2
57.5°	6909.9	5095.2	506.0	220.5	193.5	180.8	177.7	179.3	207.8	250.6	260.2
60°	5717.0	3959.4	418.8	182.4	161.8	158.6	153.9	157.0	184.0	222.1	230.0
62.5°	3383.6	2263.6	199.9	139.6	138.0	134.8	130.1	136.4	161.8	195.1	199.9
65°	1156.4	671.0	126.9	114.2	117.4	112.6	107.9	114.2	136.4	155.5	157.0
67.5°	222.1	177.7	101.5	95.2	96.8	87.2	85.7	92.0	104.7	107.9	106.3
70°	115.8	103.1	77.7	77.7	74.6	61.9	61.9	68.2	68.2	63.5	61.9
72.5°	60.3	57.1	50.8	57.1	47.6	38.1	38.1	41.2	38.1	31.7	31.7
75°	23.8	23.8	22.2	28.6	20.6	17.4	15.9	19.0	14.3	11.1	11.1
77.5°	6.3	6.3	6.3	7.9	4.8	4.8	3.2	3.2	1.6	0.0	0.0
80°	0.0	1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)