

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: P639683

Luminaire Tested: GWS-SA5C-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639683  
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-SA5C-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

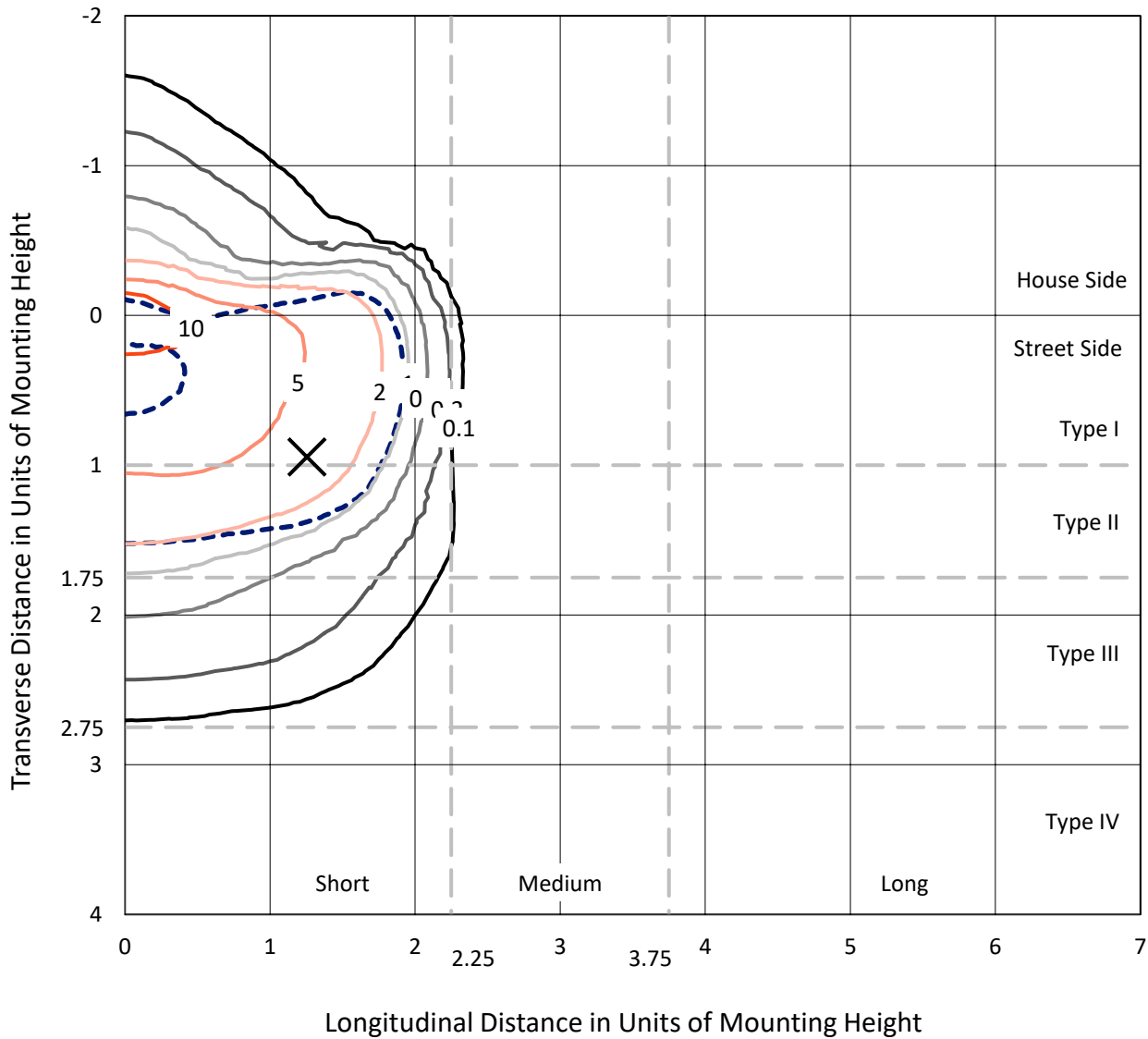
Lumens per Lamp: N/A  
Luminaire Lumens: 13736.9 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

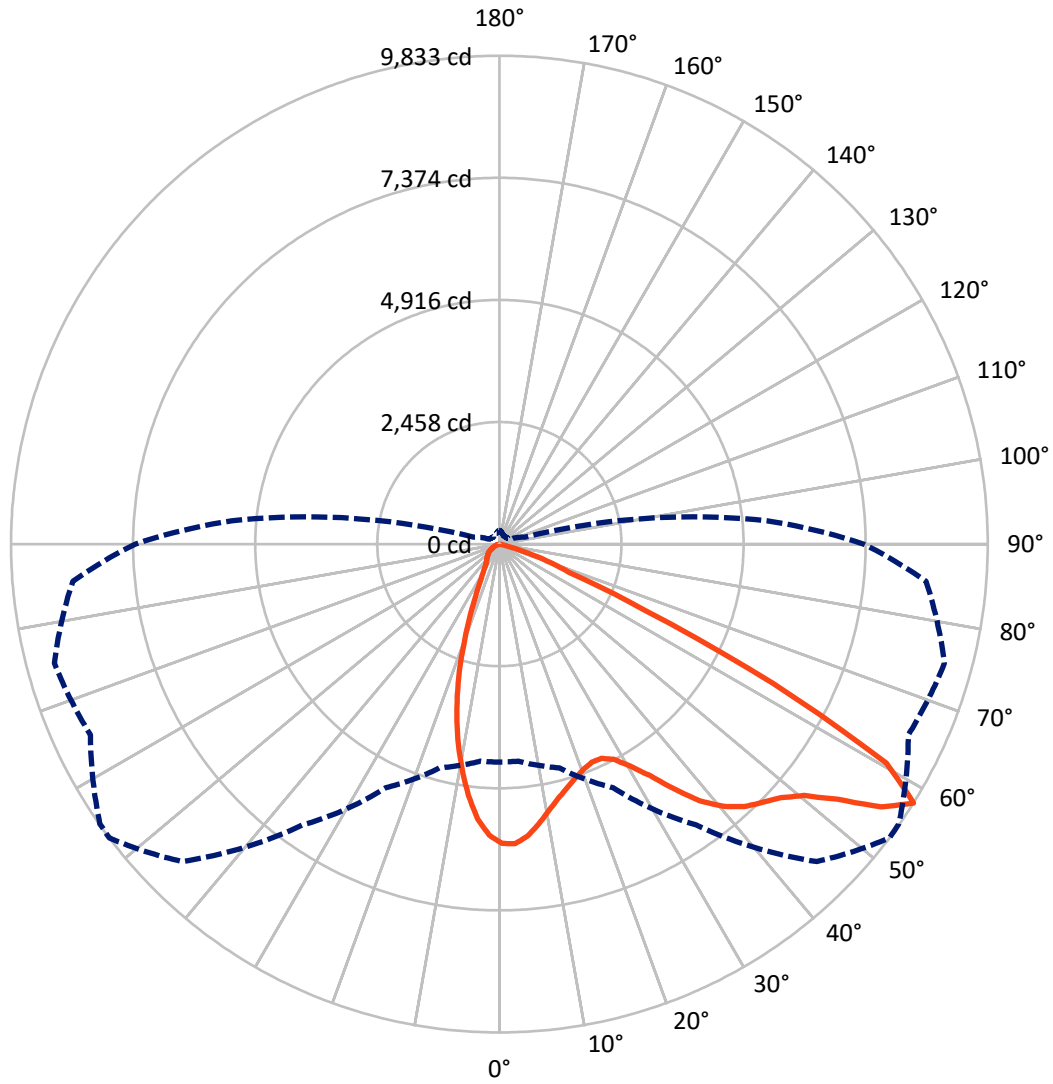
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.1 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	2269.2	0.0	2269.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11467.8	0.0	11467.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13736.9	0.0	13736.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.6	3.8
10°-20°	1131.8	8.2
20°-30°	1474.5	10.7
30°-40°	2138.8	15.6
40°-50°	3086.1	22.5
50°-60°	3732.3	27.2
60°-70°	1521.2	11.1
70°-80°	136.7	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°	13736.9	100.0
0°-180°	13736.9	100.0

**Coefficient of Utilization**



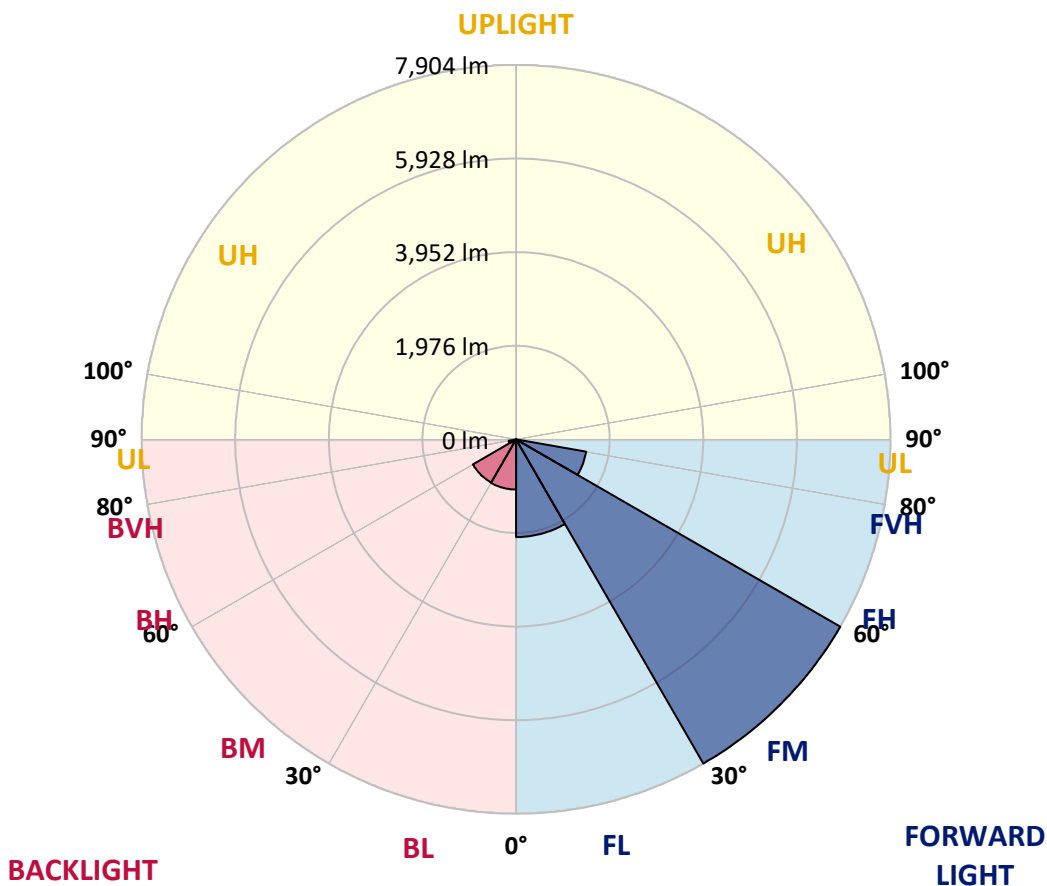
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2062.8	15.0			
FM (30°-60°)	7903.9	57.5			
FH (60°-80°)	1501.0	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1059.0	7.7	B3/2500		
BM (30°-60°)	1053.2	7.7	B2/2500		
BH (60°-80°)	156.9	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: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8
2.5°	5941.6	5955.1	5978.6	6009.0	6029.2	6039.3	6039.3	6067.9	6049.4	6034.2	6017.4
5°	5687.4	5700.8	5732.8	5781.7	5830.5	5865.8	5906.2	5936.6	5948.3	5948.3	5919.7
7.5°	5328.8	5347.3	5367.5	5434.8	5540.9	5620.0	5689.1	5732.8	5796.8	5817.0	5776.6
10°	4943.2	4961.7	5007.2	5099.8	5221.0	5338.9	5456.7	5512.3	5621.7	5679.0	5633.5
12.5°	4616.6	4625.0	4685.6	4796.7	4951.6	5113.2	5256.4	5313.6	5468.5	5554.4	5500.5
15°	4347.2	4352.2	4412.8	4535.8	4714.2	4912.9	5093.0	5152.0	5342.2	5471.9	5391.1
17.5°	4143.5	4145.1	4197.3	4330.4	4517.2	4737.8	4951.6	5024.0	5269.8	5426.4	5305.2
20°	4040.8	4035.7	4072.8	4188.9	4365.7	4586.3	4838.8	4928.0	5229.4	5419.7	5239.5
22.5°	4042.4	4030.7	4045.8	4128.3	4278.2	4485.2	4768.1	4869.1	5232.8	5448.3	5184.0
25°	4138.4	4121.6	4124.9	4168.7	4274.8	4463.4	4778.2	4886.0	5300.1	5544.3	5163.8
27.5°	4300.0	4281.5	4281.5	4303.4	4360.7	4532.4	4904.5	5027.4	5480.3	5731.1	5205.8
30°	4508.8	4490.3	4483.6	4505.5	4552.6	4710.9	5185.6	5313.6	5788.4	6037.6	5340.5
32.5°	4747.9	4726.0	4737.8	4768.1	4813.6	5032.4	5547.6	5717.7	6173.9	6450.1	5583.0
35°	5000.4	4981.9	5035.8	5101.5	5172.2	5478.6	6047.7	6195.8	6647.1	6963.6	5953.4
37.5°	5241.2	5232.8	5345.6	5483.7	5630.1	6014.0	6556.1	6670.6	7052.8	7522.6	6406.3
40°	5482.0	5480.3	5673.9	5916.4	6150.4	6547.7	6941.7	7036.0	7300.3	7956.9	6840.7
42.5°	5751.4	5751.4	6019.1	6342.3	6653.8	6998.9	7224.5	7266.6	7411.4	8207.8	7167.3
45°	6009.0	6024.1	6333.9	6709.3	7078.1	7350.8	7419.9	7423.2	7456.9	8356.0	7438.4
47.5°	6212.7	6226.1	6596.5	7029.2	7426.6	7618.5	7628.6	7613.5	7576.4	8497.4	7647.1
50°	6377.7	6397.9	6785.1	7243.1	7665.7	7876.1	7953.6	7938.4	7844.1	8648.9	7793.6
52.5°	6458.5	6487.1	6850.8	7349.1	7931.7	8317.2	8532.7	8568.1	8244.8	8733.1	7933.4
55°	5812.0	5854.1	6189.1	6871.0	8079.8	8999.1	9337.5	9330.8	8679.2	8984.0	8273.5
57.5°	4389.3	4385.9	4663.7	5409.6	6901.3	9037.8	9832.5	9819.1	9085.0	9275.2	8622.0
60°	2988.5	2968.3	3042.4	3402.7	4825.3	7362.6	8948.6	9130.4	8797.1	8568.1	7320.5
62.5°	2459.8	2441.3	2417.7	2318.4	2771.3	4586.3	6182.4	6458.5	6414.7	5955.1	4591.3
65°	2013.6	2028.8	2094.5	2052.4	1927.8	2352.1	3209.0	3372.4	3082.8	2594.5	1604.5
67.5°	1485.0	1491.7	1577.6	1799.8	1732.5	1565.8	1510.2	1537.2	900.8	414.2	267.7
70°	877.2	882.2	961.4	1259.4	1405.8	1202.1	1020.3	1005.1	356.9	111.1	121.2
72.5°	496.7	486.6	501.7	599.4	766.1	638.1	525.3	478.2	107.8	62.3	62.3
75°	235.7	229.0	197.0	185.2	168.4	107.8	67.3	57.2	26.9	25.3	25.3
77.5°	1.7	5.1	3.4	5.1	5.1	3.4	1.7	1.7	5.1	5.1	6.7
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°	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8	6025.8
2.5°	5987.1	5936.6	5924.8	5921.4	5874.3	5823.7	5771.6	5751.4	5721.0	5702.5	5717.7
5°	5874.3	5801.9	5737.9	5679.0	5574.6	5460.1	5360.7	5296.8	5236.2	5195.7	5205.8
7.5°	5714.3	5620.0	5473.5	5323.7	5131.8	4960.0	4768.1	4650.2	4540.8	4480.2	4508.8
10°	5544.3	5419.7	5185.6	4931.4	4630.0	4360.7	4086.2	3862.3	3732.7	3609.7	3623.2
12.5°	5377.6	5212.6	4862.4	4476.8	4096.3	3699.0	3284.8	2975.0	2762.9	2609.7	2586.1
15°	5222.7	5010.5	4547.5	4039.1	3520.5	2991.8	2463.2	2020.4	1774.6	1623.0	1612.9
17.5°	5084.6	4822.0	4220.9	3581.1	2931.2	2254.4	1646.6	1314.9	1173.5	1107.8	1101.1
20°	4951.6	4631.7	3887.6	3116.4	2288.1	1582.6	1136.5	983.3	937.8	910.9	914.2
22.5°	4823.7	4424.6	3537.4	2601.2	1715.6	1111.2	880.5	821.6	816.6	819.9	821.6
25°	4715.9	4234.4	3177.0	2104.6	1224.0	846.9	735.8	718.9	734.1	756.0	759.3
27.5°	4660.3	4079.5	2825.2	1604.5	885.6	688.6	638.1	644.8	671.8	695.3	698.7
30°	4675.5	3963.3	2461.5	1163.4	681.9	580.9	564.0	577.5	604.4	626.3	629.7
32.5°	4783.3	3904.4	2089.4	846.9	560.7	506.8	500.0	510.1	533.7	550.6	552.2
35°	4997.1	3917.9	1735.8	648.2	481.5	451.2	449.5	456.3	468.1	479.8	481.5
37.5°	5311.9	4027.3	1387.3	538.8	436.1	414.2	407.4	407.4	415.9	420.9	424.3
40°	5650.3	4192.3	1111.2	476.5	404.1	380.5	367.0	362.0	368.7	375.5	377.1
42.5°	5929.8	4357.3	902.4	432.7	378.8	346.8	330.0	326.6	335.0	346.8	350.2
45°	6143.6	4485.2	752.6	397.3	350.2	314.8	296.3	296.3	311.5	331.7	335.0
47.5°	6338.9	4587.9	641.5	365.4	323.3	286.2	267.7	271.1	296.3	323.3	328.3
50°	6472.0	4670.4	559.0	336.7	301.4	262.6	245.8	252.5	282.9	314.8	319.9
52.5°	6615.1	4771.5	505.1	311.5	281.2	244.1	229.0	234.0	267.7	303.1	309.8
55°	7010.7	5109.9	503.4	277.8	245.8	218.9	212.1	213.8	247.5	287.9	296.3
57.5°	7334.0	5407.9	537.1	234.0	205.4	191.9	188.6	190.3	220.6	266.0	276.1
60°	6067.9	4202.4	444.5	193.6	171.7	168.4	163.3	166.7	195.3	235.7	244.1
62.5°	3591.2	2402.6	212.1	148.2	146.5	143.1	138.1	144.8	171.7	207.1	212.1
65°	1227.4	712.2	134.7	121.2	124.6	119.5	114.5	121.2	144.8	165.0	166.7
67.5°	235.7	188.6	107.8	101.0	102.7	92.6	90.9	97.7	111.1	114.5	112.8
70°	122.9	109.4	82.5	82.5	79.1	65.7	65.7	72.4	72.4	67.3	65.7
72.5°	64.0	60.6	53.9	60.6	50.5	40.4	40.4	43.8	40.4	33.7	33.7
75°	25.3	25.3	23.6	30.3	21.9	18.5	16.8	20.2	15.2	11.8	11.8
77.5°	6.7	6.7	6.7	8.4	5.1	5.1	3.4	3.4	1.7	0.0	0.0
80°	0.0	1.7	0.0	1.7	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)