

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: P637703

Luminaire Tested: GWS-SA4D-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637703  
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-SA4D-735-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

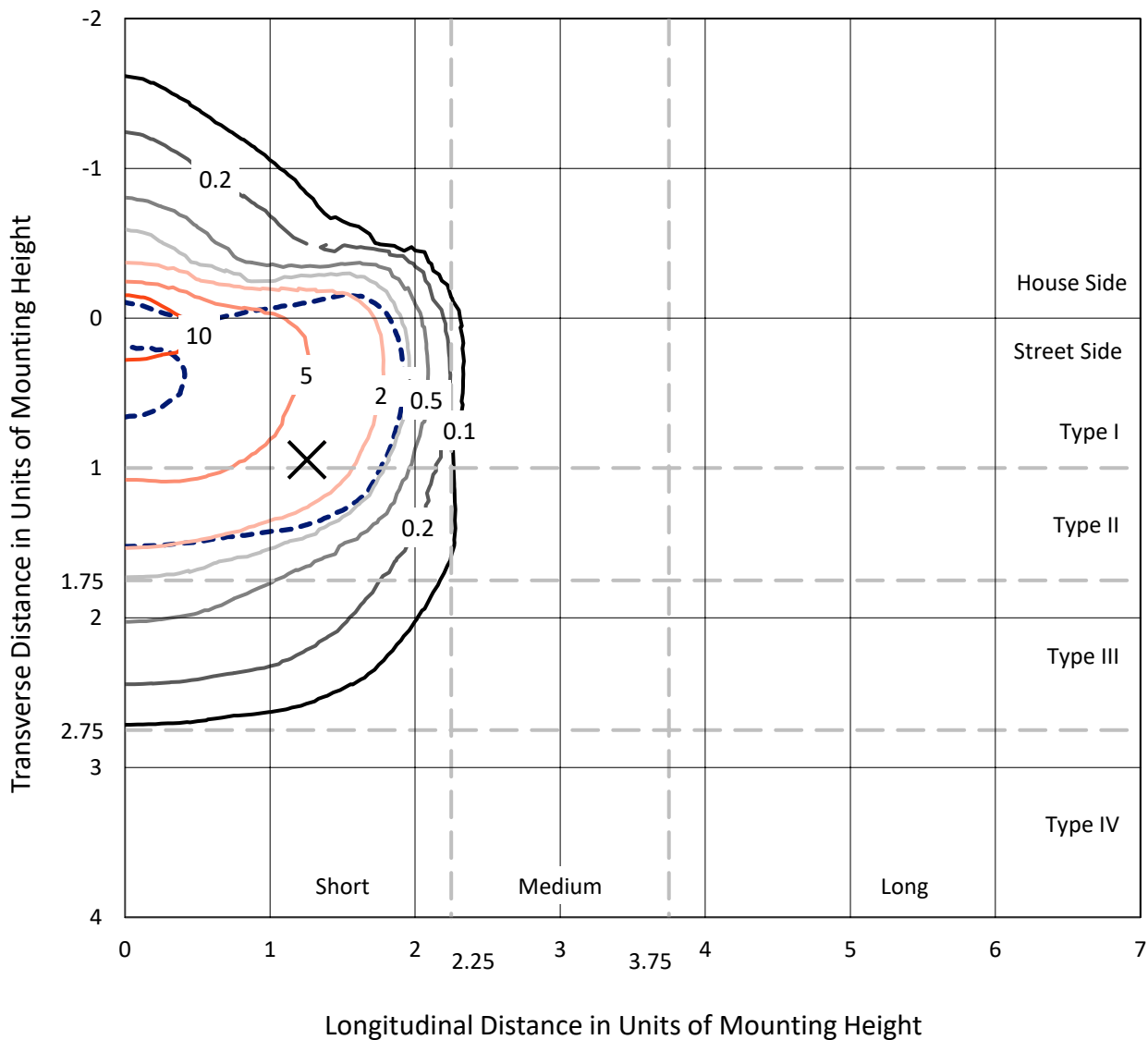
Lumens per Lamp: N/A  
Luminaire Lumens: 14127.2 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

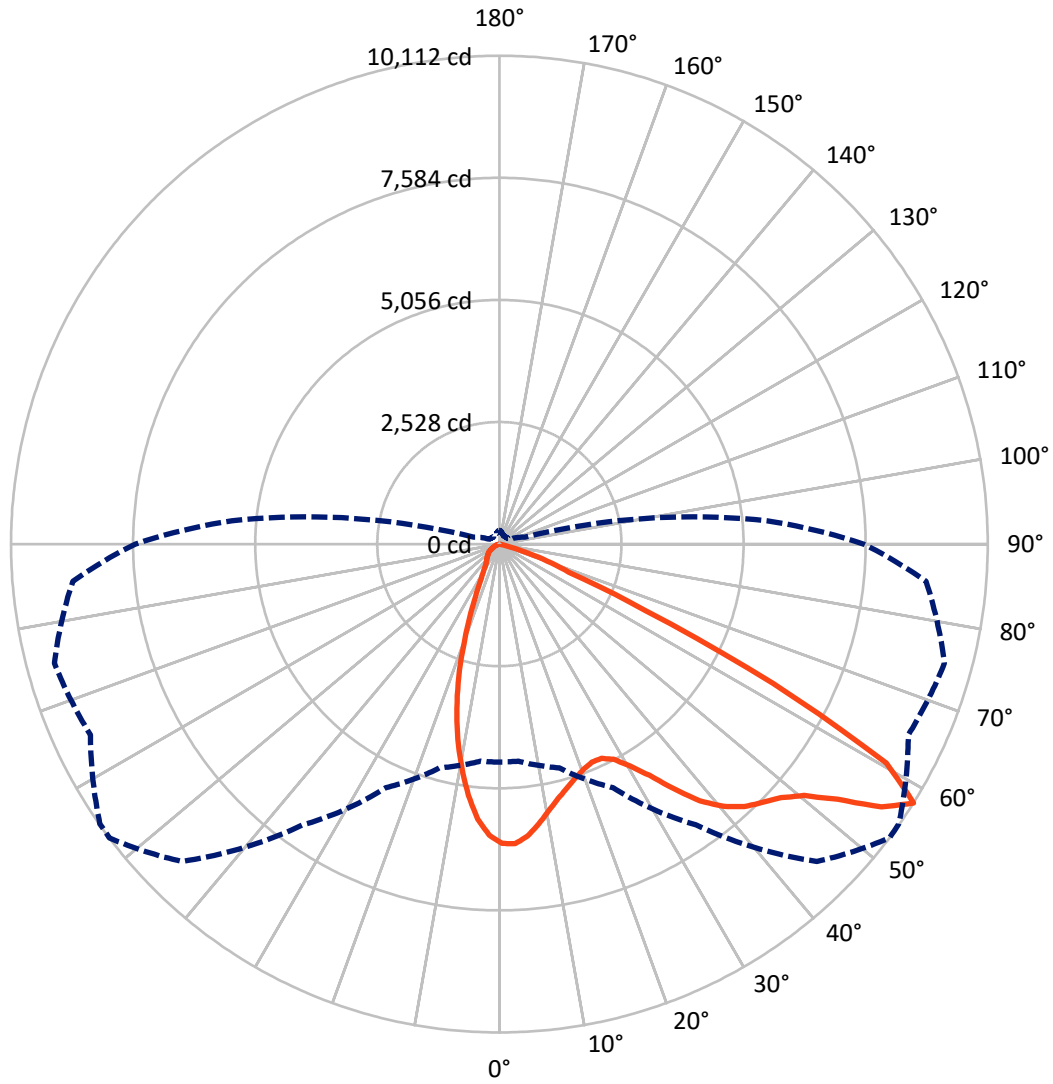
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.5 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	2333.6	0.0	2333.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11793.6	0.0	11793.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	14127.2	0.0	14127.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.2	3.8
10°-20°	1164.0	8.2
20°-30°	1516.4	10.7
30°-40°	2199.5	15.6
40°-50°	3173.8	22.5
50°-60°	3838.4	27.2
60°-70°	1564.4	11.1
70°-80°	140.6	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°	14127.2	100.0
0°-180°	14127.2	100.0

**Coefficient of Utilization**



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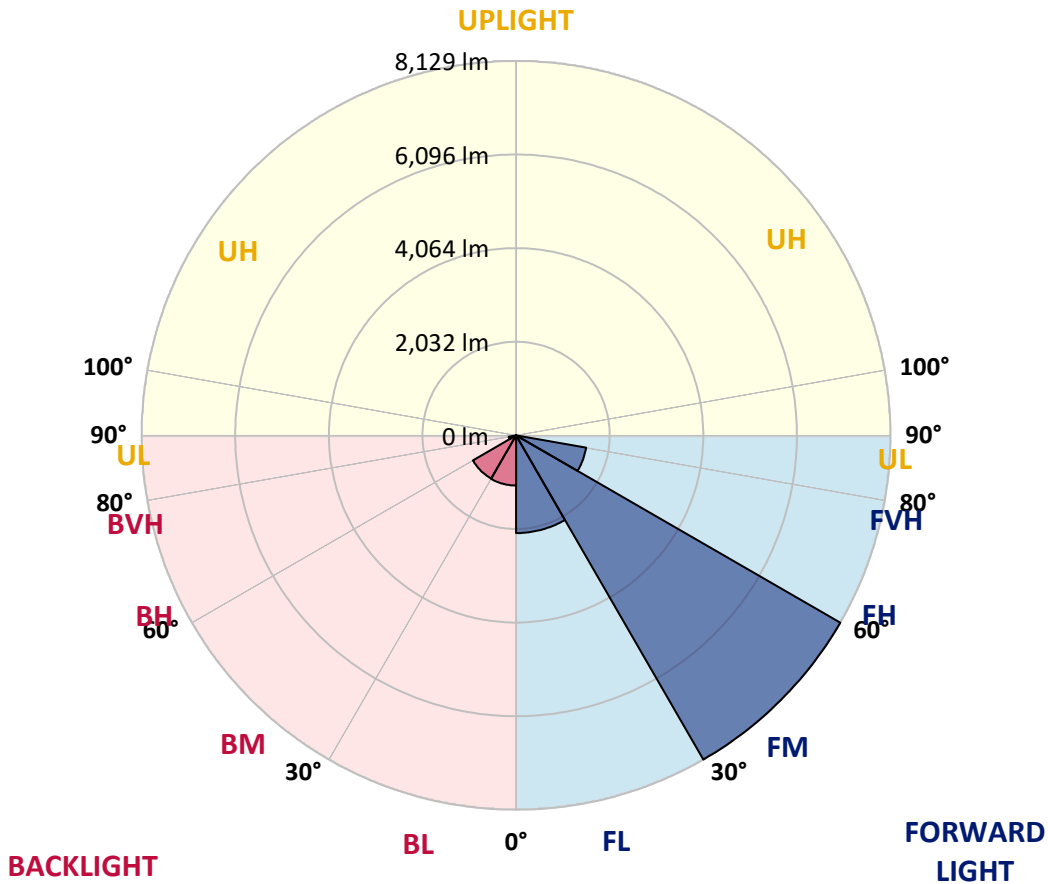
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2121.4	15.0			
FM (30°-60°)	8128.5	57.5			
FH (60°-80°)	1543.6	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1089.1	7.7	B3/2500		
BM (30°-60°)	1083.2	7.7	B2/2500		
BH (60°-80°)	161.3	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°	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0
2.5°	6110.4	6124.3	6148.5	6179.7	6200.5	6210.8	6210.8	6240.3	6221.2	6205.7	6188.3
5°	5849.0	5862.8	5895.7	5945.9	5996.1	6032.5	6074.1	6105.2	6117.3	6117.3	6087.9
7.5°	5480.2	5499.2	5520.0	5589.2	5698.3	5779.7	5850.7	5895.7	5961.5	5982.3	5940.7
10°	5083.6	5102.7	5149.4	5244.7	5369.3	5490.5	5611.8	5668.9	5781.4	5840.3	5793.6
12.5°	4747.7	4756.4	4818.7	4933.0	5092.3	5258.5	5405.7	5464.6	5623.9	5712.2	5656.8
15°	4470.7	4475.9	4538.2	4664.6	4848.2	5052.5	5237.8	5298.4	5494.0	5627.3	5544.2
17.5°	4261.2	4262.9	4316.6	4453.4	4645.6	4872.4	5092.3	5166.8	5419.6	5580.6	5455.9
20°	4155.6	4150.4	4188.5	4307.9	4489.7	4716.6	4976.3	5068.1	5378.0	5573.7	5388.4
22.5°	4157.3	4145.2	4160.8	4245.6	4399.7	4612.7	4903.6	5007.5	5381.5	5603.1	5331.3
25°	4256.0	4238.7	4242.1	4287.2	4396.2	4590.2	4914.0	5024.8	5450.7	5701.8	5310.5
27.5°	4422.2	4403.2	4403.2	4425.7	4484.6	4661.2	5043.8	5170.2	5636.0	5894.0	5353.8
30°	4636.9	4617.9	4611.0	4633.5	4681.9	4844.7	5333.0	5464.6	5952.9	6209.1	5492.3
32.5°	4882.8	4860.3	4872.4	4903.6	4950.3	5175.4	5705.3	5880.1	6349.4	6633.3	5741.6
35°	5142.5	5123.5	5178.9	5246.4	5319.1	5634.3	6219.5	6371.9	6835.9	7161.4	6122.5
37.5°	5390.1	5381.5	5497.5	5639.5	5790.1	6184.9	6742.4	6860.2	7253.2	7736.3	6588.3
40°	5637.7	5636.0	5835.1	6084.4	6325.1	6733.8	7138.9	7235.9	7507.7	8183.0	7035.0
42.5°	5914.8	5914.8	6190.1	6522.5	6842.8	7197.8	7429.8	7473.1	7622.0	8441.0	7370.9
45°	6179.7	6195.3	6513.9	6900.0	7279.2	7559.7	7630.7	7634.1	7668.8	8593.4	7649.7
47.5°	6389.2	6403.0	6784.0	7229.0	7637.6	7835.0	7845.4	7829.8	7791.7	8738.8	7864.4
50°	6558.9	6579.7	6977.9	7448.9	7883.5	8099.9	8179.5	8164.0	8067.0	8894.7	8015.1
52.5°	6642.0	6671.4	7045.4	7557.9	8157.0	8553.6	8775.2	8811.5	8479.1	8981.2	8158.8
55°	5977.1	6020.4	6364.9	7066.2	8309.4	9254.8	9602.8	9595.9	8925.8	9239.2	8508.5
57.5°	4514.0	4510.5	4796.2	5563.3	7097.4	9294.6	10111.9	10098.0	9343.1	9538.8	8866.9
60°	3073.4	3052.6	3128.8	3499.3	4962.4	7571.8	9202.9	9389.9	9047.0	8811.5	7528.5
62.5°	2529.7	2510.7	2486.4	2384.3	2850.0	4716.6	6358.0	6642.0	6597.0	6124.3	4721.8
65°	2070.9	2086.4	2154.0	2110.7	1982.6	2418.9	3300.2	3468.2	3170.4	2668.2	1650.1
67.5°	1527.2	1534.1	1622.4	1851.0	1781.7	1610.3	1553.1	1580.8	926.3	425.9	275.3
70°	902.1	907.3	988.7	1295.2	1445.8	1236.3	1049.3	1033.7	367.1	114.3	124.7
72.5°	510.8	500.4	516.0	616.4	787.8	656.2	540.2	491.7	110.8	64.1	64.1
75°	242.4	235.5	202.6	190.5	173.1	110.8	69.3	58.9	27.7	26.0	26.0
77.5°	1.7	5.2	3.5	5.2	5.2	3.5	1.7	1.7	5.2	5.2	6.9
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°	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0	6197.0
2.5°	6157.2	6105.2	6093.1	6089.6	6041.2	5989.2	5935.5	5914.8	5883.6	5864.5	5880.1
5°	6041.2	5966.7	5900.9	5840.3	5733.0	5615.2	5513.1	5447.3	5384.9	5343.4	5353.8
7.5°	5876.7	5779.7	5629.1	5475.0	5277.6	5101.0	4903.6	4782.4	4669.8	4607.5	4636.9
10°	5701.8	5573.7	5333.0	5071.5	4761.6	4484.6	4202.3	3972.0	3838.7	3712.3	3726.2
12.5°	5530.4	5360.7	5000.5	4604.0	4212.7	3804.1	3378.1	3059.5	2841.4	2683.8	2659.6
15°	5371.1	5152.9	4676.7	4153.8	3620.5	3076.9	2533.2	2077.8	1825.0	1669.2	1658.8
17.5°	5229.1	4959.0	4340.8	3682.9	3014.5	2318.5	1693.4	1352.3	1206.8	1139.3	1132.4
20°	5092.3	4763.3	3998.0	3205.0	2353.1	1627.6	1168.8	1011.2	964.4	936.7	940.2
22.5°	4960.7	4550.4	3637.9	2675.1	1764.4	1142.8	905.6	845.0	839.8	843.2	845.0
25°	4849.9	4354.7	3267.3	2164.4	1258.8	870.9	756.7	739.3	754.9	777.4	780.9
27.5°	4792.8	4195.4	2905.4	1650.1	910.8	708.2	656.2	663.2	690.9	715.1	718.6
30°	4808.3	4075.9	2531.4	1196.5	701.3	597.4	580.0	593.9	621.6	644.1	647.6
32.5°	4919.2	4015.3	2148.8	870.9	576.6	521.2	514.3	524.6	548.9	566.2	567.9
35°	5139.1	4029.2	1785.2	666.6	495.2	464.0	462.3	469.2	481.4	493.5	495.2
37.5°	5462.8	4141.7	1426.7	554.1	448.5	425.9	419.0	419.0	427.7	432.9	436.3
40°	5810.9	4311.4	1142.8	490.0	415.6	391.3	377.5	372.3	379.2	386.1	387.9
42.5°	6098.3	4481.1	928.1	445.0	389.6	356.7	339.4	335.9	344.6	356.7	360.1
45°	6318.2	4612.7	774.0	408.6	360.1	323.8	304.7	304.7	320.3	341.1	344.6
47.5°	6519.1	4718.3	659.7	375.7	332.4	294.4	275.3	278.8	304.7	332.4	337.6
50°	6655.8	4803.1	574.9	346.3	309.9	270.1	252.8	259.7	290.9	323.8	329.0
52.5°	6803.0	4907.0	519.4	320.3	289.2	251.1	235.5	240.7	275.3	311.7	318.6
55°	7209.9	5255.1	517.7	285.7	252.8	225.1	218.2	219.9	254.5	296.1	304.7
57.5°	7542.4	5561.5	552.3	240.7	211.2	197.4	193.9	195.7	226.8	273.6	284.0
60°	6240.3	4321.8	457.1	199.1	176.6	173.1	168.0	171.4	200.9	242.4	251.1
62.5°	3693.3	2470.8	218.2	152.4	150.6	147.2	142.0	148.9	176.6	213.0	218.2
65°	1262.3	732.4	138.5	124.7	128.1	122.9	117.7	124.7	148.9	169.7	171.4
67.5°	242.4	193.9	110.8	103.9	105.6	95.2	93.5	100.4	114.3	117.7	116.0
70°	126.4	112.5	84.8	84.8	81.4	67.5	67.5	74.5	74.5	69.3	67.5
72.5°	65.8	62.3	55.4	62.3	51.9	41.6	41.6	45.0	41.6	34.6	34.6
75°	26.0	26.0	24.2	31.2	22.5	19.0	17.3	20.8	15.6	12.1	12.1
77.5°	6.9	6.9	6.9	8.7	5.2	5.2	3.5	3.5	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)