

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: P638033

Luminaire Tested: GWS-SA4E-722-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638033  
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-SA4E-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

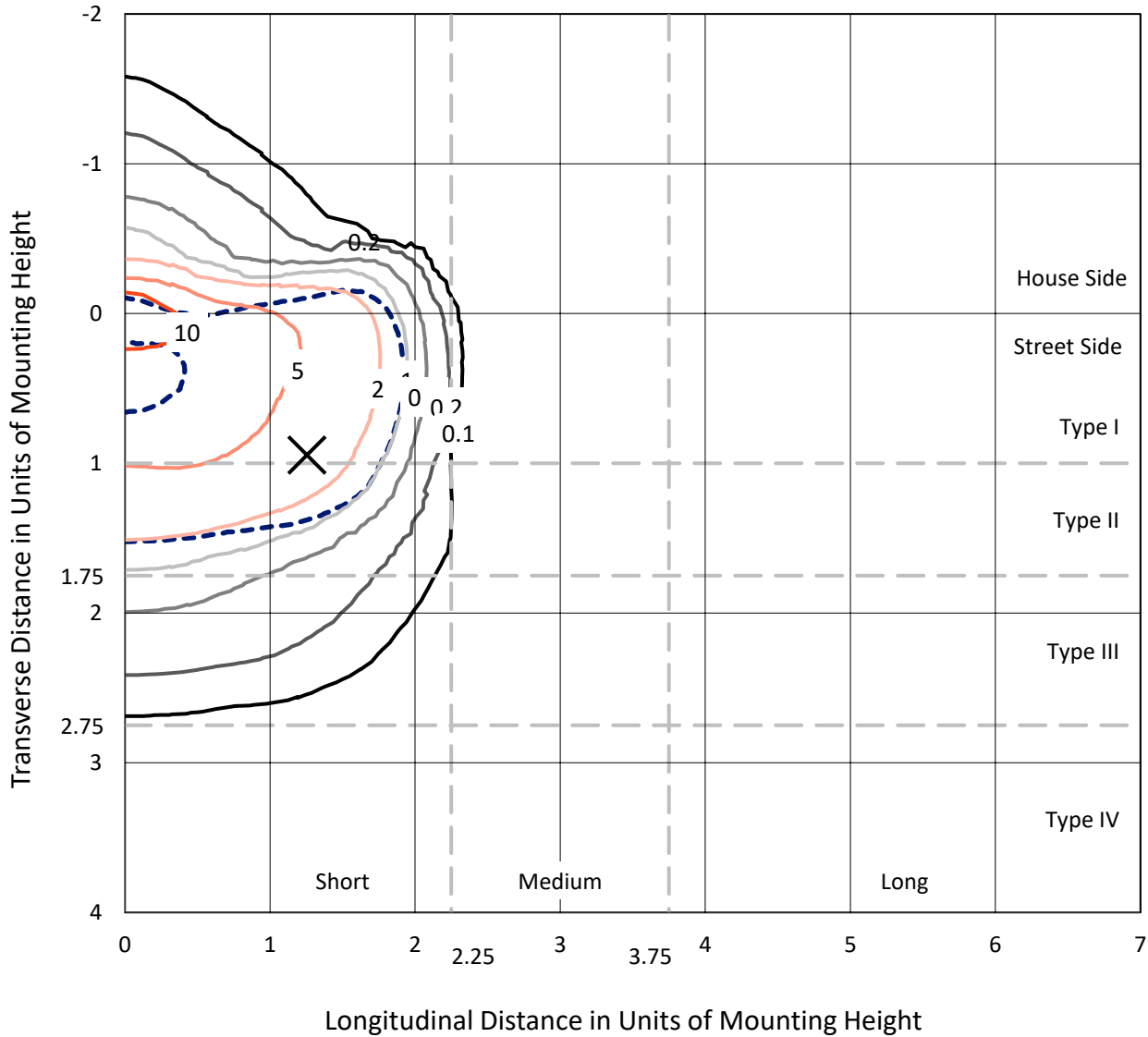
Lumens per Lamp: N/A  
Luminaire Lumens: 13184.6 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

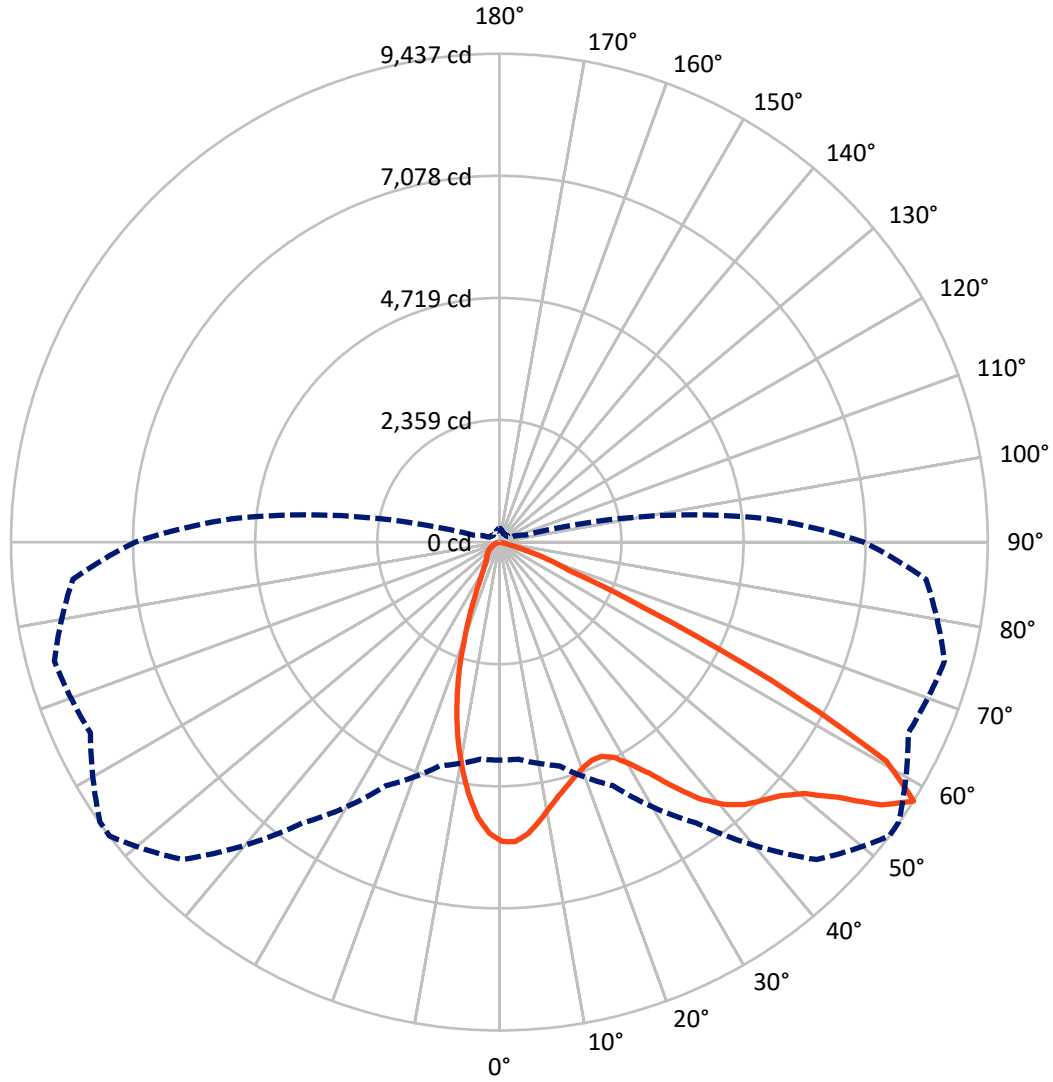
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.5 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	2177.9	0.0	2177.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11006.7	0.0	11006.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13184.6	0.0	13184.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.8	3.8
10°-20°	1086.3	8.2
20°-30°	1415.2	10.7
30°-40°	2052.8	15.6
40°-50°	2962.0	22.5
50°-60°	3582.3	27.2
60°-70°	1460.0	11.1
70°-80°	131.2	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°	13184.6	100.0
0°-180°	13184.6	100.0

**Coefficient of Utilization**



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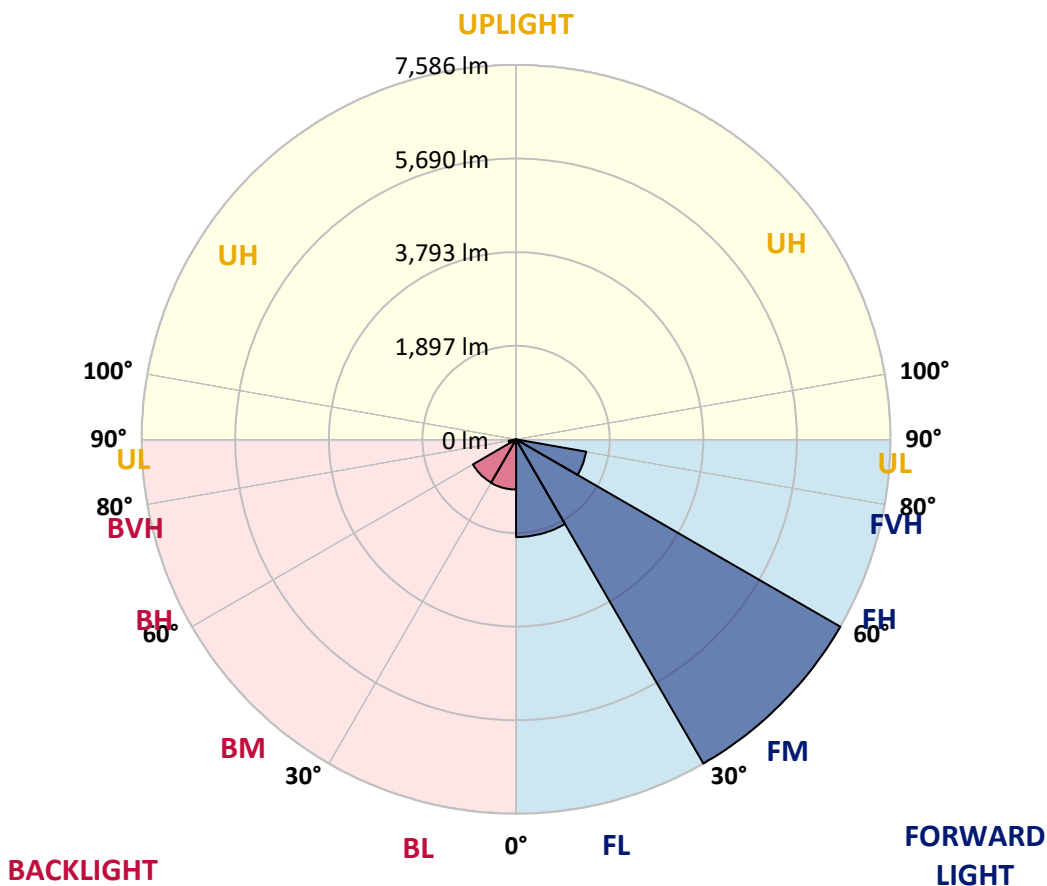
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1979.9	15.0			
FM (30°-60°)	7586.2	57.5			
FH (60°-80°)	1440.6	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1016.5	7.7	B3/2500		
BM (30°-60°)	1010.9	7.7	B2/2500		
BH (60°-80°)	150.6	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°	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5
2.5°	5702.7	5715.6	5738.3	5767.4	5786.7	5796.4	5796.4	5823.9	5806.1	5791.6	5775.4
5°	5458.7	5471.6	5502.3	5549.2	5596.1	5630.0	5668.8	5697.9	5709.2	5709.2	5681.7
7.5°	5114.5	5132.3	5151.7	5216.3	5318.1	5394.1	5460.3	5502.3	5563.7	5583.1	5544.4
10°	4744.5	4762.2	4805.9	4894.7	5011.1	5124.2	5237.3	5290.6	5395.7	5450.6	5407.0
12.5°	4431.0	4439.0	4497.2	4603.9	4752.5	4907.7	5045.0	5100.0	5248.6	5331.0	5279.3
15°	4172.4	4177.3	4235.4	4353.4	4524.7	4715.4	4888.3	4944.8	5127.4	5251.9	5174.3
17.5°	3976.9	3978.5	4028.6	4156.2	4335.6	4547.3	4752.5	4822.0	5058.0	5208.2	5091.9
20°	3878.3	3873.5	3909.0	4020.5	4190.2	4401.9	4644.3	4729.9	5019.2	5201.8	5028.9
22.5°	3879.9	3868.6	3883.1	3962.3	4106.2	4304.9	4576.4	4673.4	5022.4	5229.2	4975.5
25°	3972.0	3955.9	3959.1	4001.1	4102.9	4283.9	4586.1	4689.5	5087.0	5321.4	4956.1
27.5°	4127.2	4109.4	4109.4	4130.4	4185.3	4350.2	4707.3	4825.3	5259.9	5500.7	4996.5
30°	4327.5	4309.8	4303.3	4324.3	4369.6	4521.5	4977.2	5100.0	5555.7	5794.8	5125.8
32.5°	4557.0	4536.0	4547.3	4576.4	4620.0	4830.1	5324.6	5487.8	5925.7	6190.7	5358.5
35°	4799.4	4781.6	4833.3	4896.4	4964.2	5258.3	5804.5	5946.7	6379.8	6683.6	5714.0
37.5°	5030.5	5022.4	5130.7	5263.2	5403.8	5772.2	6292.5	6402.4	6769.3	7220.1	6148.7
40°	5261.6	5259.9	5445.8	5678.5	5903.1	6284.5	6662.6	6753.1	7006.8	7637.0	6565.6
42.5°	5520.1	5520.1	5777.1	6087.3	6386.3	6717.5	6934.1	6974.5	7113.5	7877.8	6879.1
45°	5767.4	5781.9	6079.2	6439.6	6793.5	7055.3	7121.5	7124.8	7157.1	8020.0	7139.3
47.5°	5962.9	5975.8	6331.3	6746.6	7128.0	7312.2	7321.9	7307.4	7271.8	8155.7	7339.7
50°	6121.3	6140.6	6512.3	6951.9	7357.5	7559.5	7633.8	7619.2	7528.8	8301.2	7480.3
52.5°	6198.8	6226.3	6575.3	7053.7	7612.8	7982.8	8189.7	8223.6	7913.4	8382.0	7614.4
55°	5578.3	5618.7	5940.3	6594.7	7755.0	8637.3	8962.1	8955.6	8330.3	8622.8	7940.8
57.5°	4212.8	4209.6	4476.2	5192.1	6623.8	8674.5	9437.2	9424.3	8719.7	8902.3	8275.3
60°	2868.3	2848.9	2920.0	3265.9	4631.3	7066.6	8588.8	8763.3	8443.4	8223.6	7026.2
62.5°	2360.9	2343.1	2320.5	2225.2	2659.9	4401.9	5933.8	6198.8	6156.8	5715.6	4406.7
65°	1932.7	1947.2	2010.3	1969.9	1850.3	2257.5	3080.0	3236.8	2958.8	2490.2	1540.0
67.5°	1425.3	1431.7	1514.2	1727.5	1662.8	1502.8	1449.5	1475.4	864.5	397.5	256.9
70°	841.9	846.8	922.7	1208.7	1349.3	1153.8	979.3	964.7	342.6	106.7	116.3
72.5°	476.7	467.0	481.6	575.3	735.3	612.4	504.2	458.9	103.4	59.8	59.8
75°	226.2	219.8	189.1	177.8	161.6	103.4	64.6	54.9	25.9	24.2	24.2
77.5°	1.6	4.8	3.2	4.8	4.8	3.2	1.6	1.6	4.8	4.8	6.5
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°	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5	5783.5
2.5°	5746.4	5697.9	5686.6	5683.3	5638.1	5589.6	5539.5	5520.1	5491.0	5473.3	5487.8
5°	5638.1	5568.6	5507.2	5450.6	5350.4	5240.6	5145.2	5083.8	5025.6	4986.8	4996.5
7.5°	5484.6	5394.1	5253.5	5109.7	4925.4	4760.6	4576.4	4463.3	4358.2	4300.1	4327.5
10°	5321.4	5201.8	4977.2	4733.1	4443.9	4185.3	3921.9	3707.0	3582.6	3464.6	3477.5
12.5°	5161.4	5003.0	4666.9	4296.8	3931.6	3550.3	3152.7	2855.4	2651.8	2504.7	2482.1
15°	5012.7	4809.1	4364.7	3876.7	3379.0	2871.6	2364.1	1939.2	1703.2	1557.8	1548.1
17.5°	4880.2	4628.1	4051.2	3437.1	2813.4	2163.8	1580.4	1262.1	1126.3	1063.3	1056.8
20°	4752.5	4445.5	3731.2	2991.1	2196.1	1519.0	1090.8	943.7	900.1	874.2	877.5
22.5°	4629.7	4246.7	3395.1	2496.7	1646.7	1066.5	845.1	788.6	783.7	787.0	788.6
25°	4526.3	4064.1	3049.3	2019.9	1174.8	812.8	706.2	690.0	704.6	725.6	728.8
27.5°	4473.0	3915.5	2711.6	1540.0	850.0	660.9	612.4	618.9	644.8	667.4	670.6
30°	4487.5	3804.0	2362.5	1116.6	654.5	557.5	541.3	554.3	580.1	601.1	604.4
32.5°	4590.9	3747.4	2005.4	812.8	538.1	486.4	479.9	489.6	512.3	528.4	530.0
35°	4796.2	3760.3	1666.1	622.1	462.2	433.1	431.5	437.9	449.2	460.5	462.2
37.5°	5098.4	3865.4	1331.6	517.1	418.5	397.5	391.1	391.1	399.1	404.0	407.2
40°	5423.2	4023.7	1066.5	457.3	387.8	365.2	352.3	347.4	353.9	360.4	362.0
42.5°	5691.4	4182.1	866.2	415.3	363.6	332.9	316.7	313.5	321.6	332.9	336.1
45°	5896.6	4304.9	722.3	381.4	336.1	302.2	284.4	284.4	299.0	318.3	321.6
47.5°	6084.1	4403.5	615.7	350.7	310.3	274.7	256.9	260.2	284.4	310.3	315.1
50°	6211.7	4482.7	536.5	323.2	289.3	252.1	235.9	242.4	271.5	302.2	307.0
52.5°	6349.1	4579.6	484.8	299.0	269.9	234.3	219.8	224.6	256.9	290.9	297.3
55°	6728.9	4904.4	483.2	266.6	235.9	210.1	203.6	205.2	237.5	276.3	284.4
57.5°	7039.1	5190.5	515.5	224.6	197.1	184.2	181.0	182.6	211.7	255.3	265.0
60°	5823.9	4033.4	426.6	185.8	164.8	161.6	156.7	160.0	187.5	226.2	234.3
62.5°	3446.8	2306.0	203.6	142.2	140.6	137.4	132.5	139.0	164.8	198.8	203.6
65°	1178.0	683.6	129.3	116.3	119.6	114.7	109.9	116.3	139.0	158.4	160.0
67.5°	226.2	181.0	103.4	97.0	98.6	88.9	87.3	93.7	106.7	109.9	108.3
70°	118.0	105.0	79.2	79.2	76.0	63.0	63.0	69.5	69.5	64.6	63.0
72.5°	61.4	58.2	51.7	58.2	48.5	38.8	38.8	42.0	38.8	32.3	32.3
75°	24.2	24.2	22.6	29.1	21.0	17.8	16.2	19.4	14.5	11.3	11.3
77.5°	6.5	6.5	6.5	8.1	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)