

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: P642154

Luminaire Tested: GWS-SA6C-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642154  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-735-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

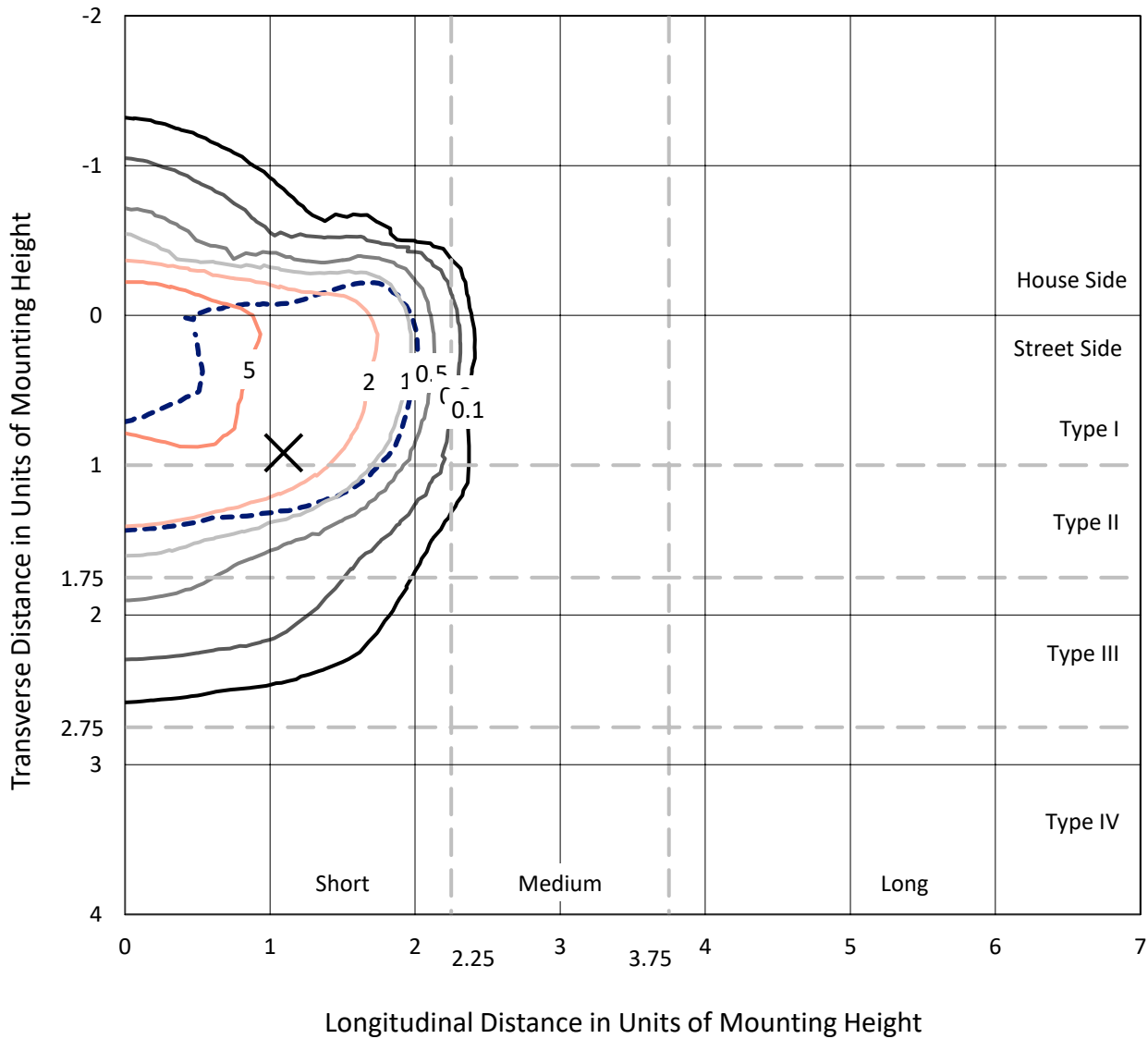
Lumens per Lamp: N/A  
Luminaire Lumens: 16444.6 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

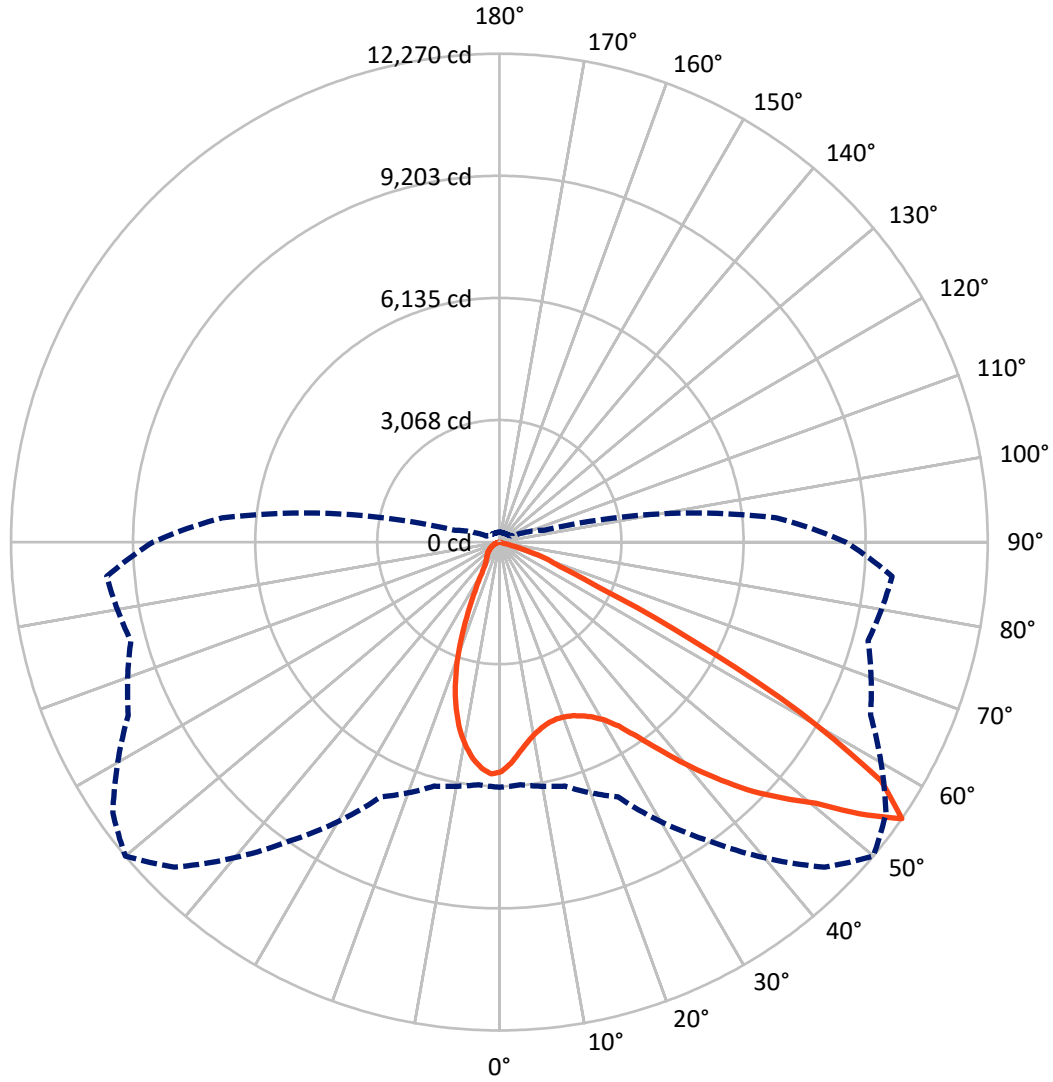
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3240.4	0.0	3240.4
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	13204.2	0.0	13204.2
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	16444.6	0.0	16444.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.7	3.1
10°-20°	1246.9	7.6
20°-30°	1758.8	10.7
30°-40°	2602.7	15.8
40°-50°	3754.8	22.8
50°-60°	4429.1	26.9
60°-70°	1975.7	12.0
70°-80°	169.9	1.0
80°-90°	0.1	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°	16444.6	100.0
0°-180°	16444.6	100.0

**Coefficient of Utilization**



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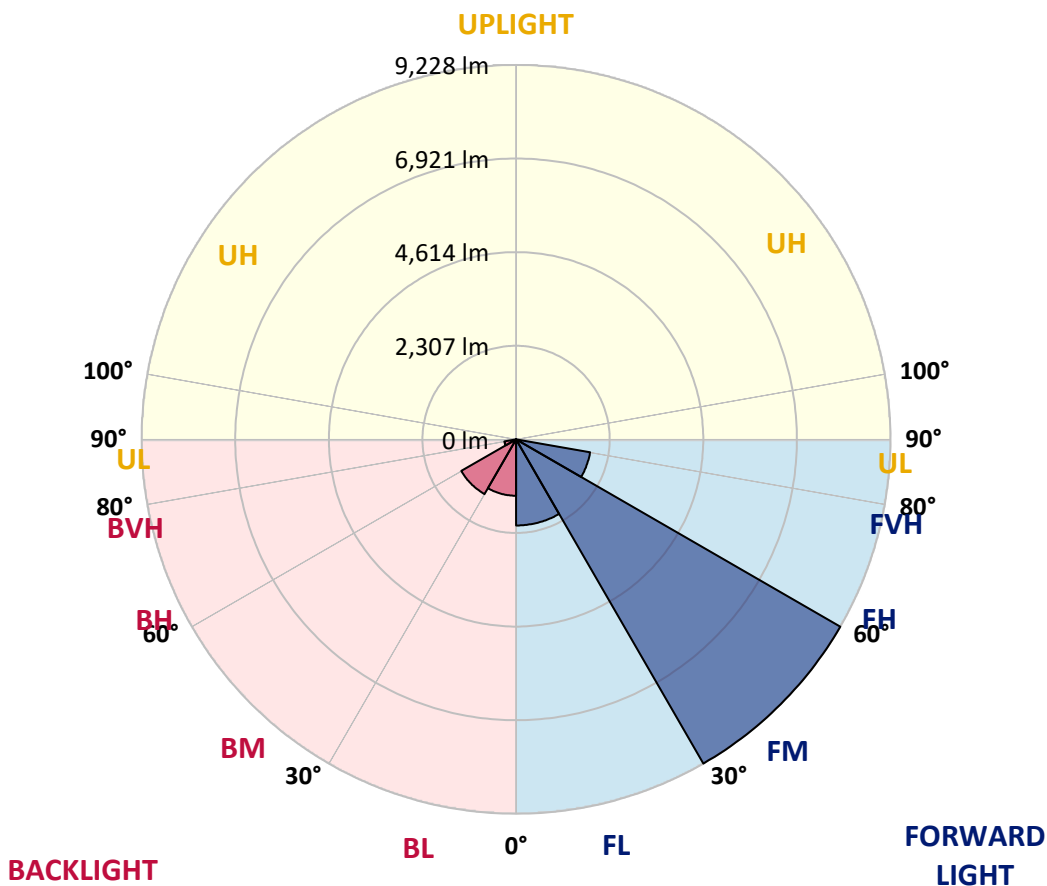
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2123.1	12.9			
FM (30°-60°)	9228.2	56.1			
FH (60°-80°)	1853.0	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1389.3	8.4	B3/2500		
BM (30°-60°)	1558.4	9.5	B2/2500		
BH (60°-80°)	292.6	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7
2.5°	5360.1	5364.2	5366.2	5420.4	5440.4	5520.7	5562.9	5585.0	5643.2	5711.5	5767.7
5°	5000.8	4994.8	5004.8	5073.1	5117.2	5235.7	5299.9	5344.1	5472.6	5633.2	5767.7
7.5°	4687.6	4699.7	4711.7	4786.0	4852.2	4980.7	5073.1	5139.3	5318.0	5556.9	5783.7
10°	4466.8	4466.8	4484.9	4569.2	4647.5	4806.1	4898.4	4982.7	5195.5	5488.6	5801.8
12.5°	4304.2	4306.2	4328.3	4424.6	4515.0	4679.6	4775.9	4858.3	5093.1	5420.4	5805.8
15°	4227.9	4221.9	4239.9	4342.3	4442.7	4597.3	4697.7	4778.0	5020.9	5382.2	5825.9
17.5°	4207.8	4203.8	4217.8	4318.2	4420.6	4571.2	4669.5	4749.8	5010.8	5394.3	5886.1
20°	4266.0	4258.0	4252.0	4338.3	4434.7	4583.2	4685.6	4775.9	5059.0	5460.5	5978.5
22.5°	4404.6	4404.6	4390.5	4432.7	4496.9	4631.4	4737.8	4856.2	5185.5	5593.0	6115.0
25°	4659.5	4639.4	4613.3	4631.4	4623.4	4707.7	4834.2	4998.8	5424.4	5811.8	6281.6
27.5°	4950.6	4968.7	4924.5	4926.5	4856.2	4826.1	4972.7	5221.6	5779.7	6121.0	6528.5
30°	5346.1	5332.0	5334.0	5328.0	5165.4	5022.9	5181.5	5512.7	6227.4	6592.8	6849.7
32.5°	5655.3	5675.3	5741.6	5779.7	5566.9	5338.1	5506.7	5908.2	6737.3	7130.8	7243.2
35°	5982.5	6018.6	6153.1	6277.6	6098.9	5835.9	6016.6	6432.2	7217.1	7662.8	7694.9
37.5°	6327.8	6400.0	6560.7	6779.5	6751.4	6518.5	6683.1	7048.5	7594.5	7984.0	8068.3
40°	6723.3	6793.5	7056.5	7371.7	7437.9	7385.8	7440.0	7652.8	7843.5	7998.1	8228.9
42.5°	7156.9	7253.3	7586.5	8008.1	8257.0	8303.2	8176.7	8154.6	7951.9	7837.4	8194.8
45°	7668.8	7781.2	8158.7	8704.7	9100.2	9162.4	8943.6	8660.5	8020.1	7719.0	8092.4
47.5°	8243.0	8349.4	8724.8	9381.3	9969.5	9993.6	9612.1	9156.4	8222.9	7855.5	8170.7
50°	8435.7	8501.9	8827.2	9598.1	10682.1	10866.8	10314.8	9714.5	8630.4	8257.0	8552.1
52.5°	7773.2	7799.3	8082.4	8861.3	10537.6	11724.1	11340.6	10547.6	9355.2	8869.3	9140.3
55°	6159.1	6117.0	6345.8	7060.5	9158.4	11549.4	12270.1	11856.6	10288.7	9588.0	9905.2
57.5°	4308.2	4258.0	4205.8	4689.6	6833.7	9790.8	11306.5	12039.2	11178.0	10300.7	10730.3
60°	3541.3	3493.1	3240.2	3017.3	4131.5	7030.4	8684.6	10063.8	11105.7	10264.6	10704.2
62.5°	3059.5	3031.4	2929.0	2625.9	2431.1	4013.1	5438.4	6759.4	8522.0	8060.3	8084.4
65°	2403.0	2395.0	2465.3	2497.4	2150.1	2220.3	2774.4	3513.2	4607.3	4344.3	4119.5
67.5°	1642.2	1624.1	1756.6	2160.1	2067.8	1752.6	1624.1	1638.2	1993.5	1218.6	967.6
70°	1043.9	1001.8	1003.8	1339.0	1682.3	1383.2	1252.7	1102.1	991.7	180.7	204.8
72.5°	668.5	642.4	552.1	604.3	778.9	674.5	680.6	586.2	391.5	96.4	112.4
75°	281.1	259.0	198.7	158.6	156.6	98.4	86.3	80.3	54.2	54.2	58.2
77.5°	2.0	0.0	0.0	2.0	4.0	2.0	2.0	4.0	8.0	12.0	14.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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°	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7
2.5°	5801.8	5753.6	5807.8	5827.9	5825.9	5827.9	5769.7	5729.5	5727.5	5677.3	5653.2
5°	5823.9	5785.7	5825.9	5799.8	5737.6	5659.3	5554.9	5464.5	5424.4	5366.2	5338.1
7.5°	5866.0	5825.9	5819.9	5715.5	5560.9	5396.3	5211.6	5047.0	4958.6	4852.2	4858.3
10°	5896.2	5850.0	5771.7	5558.9	5301.9	5038.9	4763.9	4519.0	4364.4	4221.9	4197.8
12.5°	5908.2	5839.9	5657.3	5336.1	4974.7	4631.4	4227.9	3878.6	3637.7	3451.0	3424.9
15°	5930.3	5819.9	5510.7	5067.0	4571.2	4085.4	3571.4	3093.6	2774.4	2559.6	2577.7
17.5°	5964.4	5797.8	5346.1	4765.9	4137.5	3451.0	2756.4	2208.3	1915.2	1790.7	1792.7
20°	6012.6	5771.7	5165.4	4434.7	3617.6	2734.3	1927.2	1513.7	1431.4	1427.4	1421.3
22.5°	6076.8	5745.6	4972.7	4071.3	3001.3	1915.2	1282.8	1154.3	1188.5	1254.7	1266.8
25°	6153.1	5713.5	4757.9	3661.8	2328.8	1256.7	961.6	941.5	1023.8	1112.2	1132.3
27.5°	6271.6	5697.4	4513.0	3196.0	1634.1	901.4	787.0	799.0	873.3	947.6	965.6
30°	6472.3	5727.5	4246.0	2674.0	1049.9	718.7	682.6	700.6	740.8	778.9	795.0
32.5°	6745.3	5815.9	3987.0	2103.9	748.8	624.3	616.3	626.4	642.4	664.5	670.5
35°	7064.5	5968.4	3720.0	1505.7	618.3	570.1	562.1	562.1	570.1	574.2	576.2
37.5°	7327.5	6129.0	3469.0	1001.8	554.1	528.0	515.9	509.9	507.9	511.9	513.9
40°	7442.0	6195.3	3196.0	728.7	507.9	489.8	471.8	453.7	453.7	467.8	469.8
42.5°	7361.7	6121.0	2880.8	602.3	475.8	449.7	421.6	405.5	413.6	427.6	431.6
45°	7191.0	5938.3	2533.5	532.0	443.7	409.5	377.4	367.4	375.4	393.5	397.5
47.5°	7162.9	5817.9	2118.0	485.8	409.5	375.4	341.3	331.2	341.3	355.3	359.4
50°	7442.0	5922.3	1656.2	445.7	377.4	339.3	311.2	301.1	307.2	315.2	319.2
52.5°	7951.9	6309.7	1337.0	407.5	339.3	303.1	285.1	273.0	273.0	281.1	283.1
55°	8704.7	6986.3	1154.3	363.4	295.1	275.0	259.0	246.9	246.9	250.9	253.0
57.5°	9572.0	7805.3	1196.5	305.1	259.0	248.9	234.9	224.8	228.9	228.9	228.9
60°	9451.5	7745.1	1280.8	257.0	228.9	224.8	212.8	208.8	218.8	210.8	206.8
62.5°	6962.2	5350.1	670.5	210.8	196.7	192.7	184.7	192.7	206.8	184.7	176.7
65°	3380.7	2589.7	269.0	172.6	166.6	162.6	158.6	170.6	178.7	144.5	136.5
67.5°	795.0	646.4	174.7	146.6	138.5	130.5	134.5	136.5	130.5	98.4	94.4
70°	206.8	202.8	136.5	122.5	110.4	102.4	102.4	100.4	86.3	62.2	58.2
72.5°	112.4	110.4	98.4	92.3	76.3	68.3	70.3	62.2	48.2	36.1	34.1
75°	56.2	60.2	56.2	52.2	42.2	38.1	38.1	34.1	24.1	14.1	14.1
77.5°	12.0	14.1	14.1	12.0	10.0	8.0	8.0	10.0	4.0	0.0	0.0
80°	2.0	2.0	2.0	2.0	2.0	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)