

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: P638253

Luminaire Tested: GWS-SA4E-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638253  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

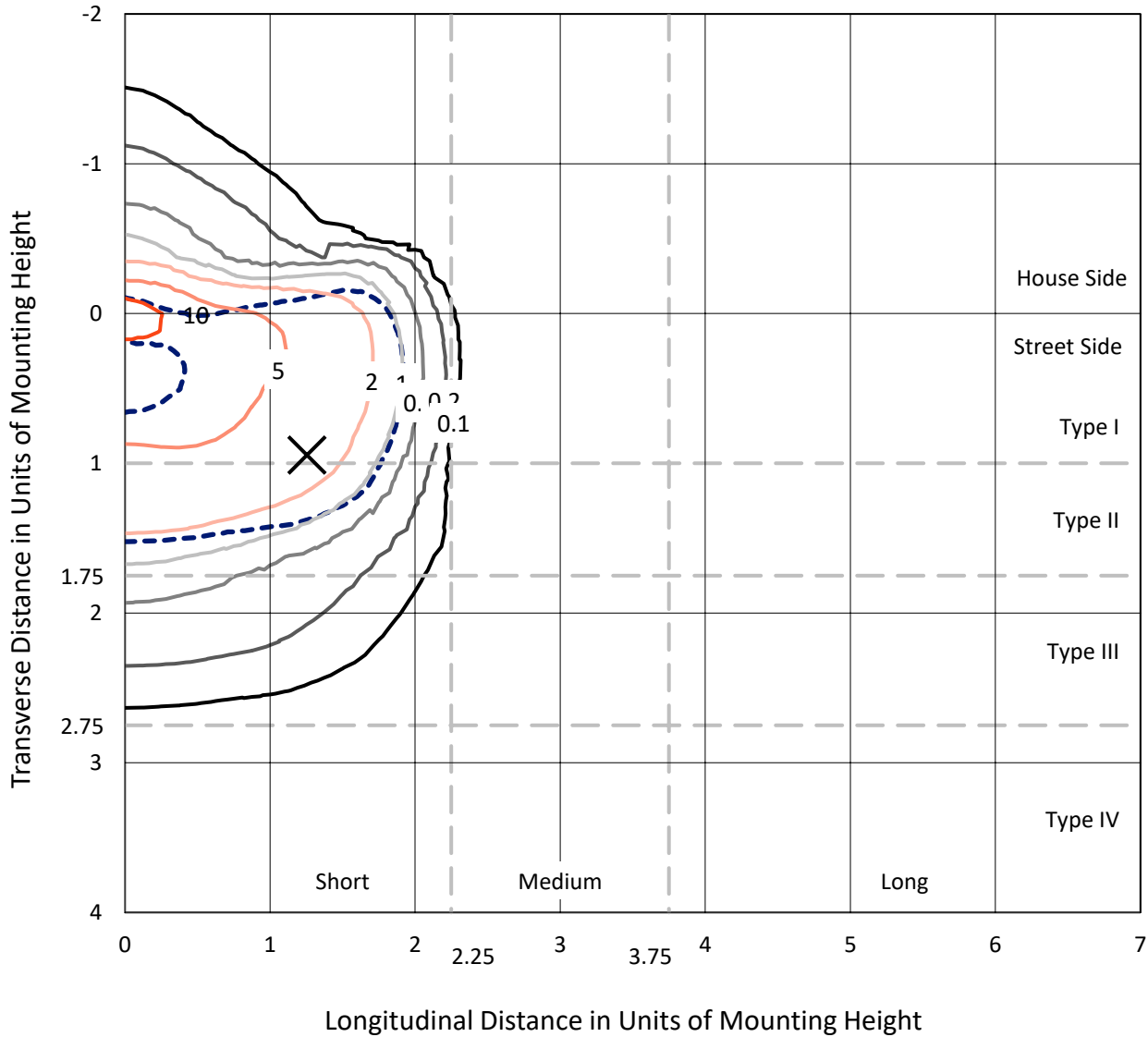
Lumens per Lamp: N/A  
Luminaire Lumens: 17899.3 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

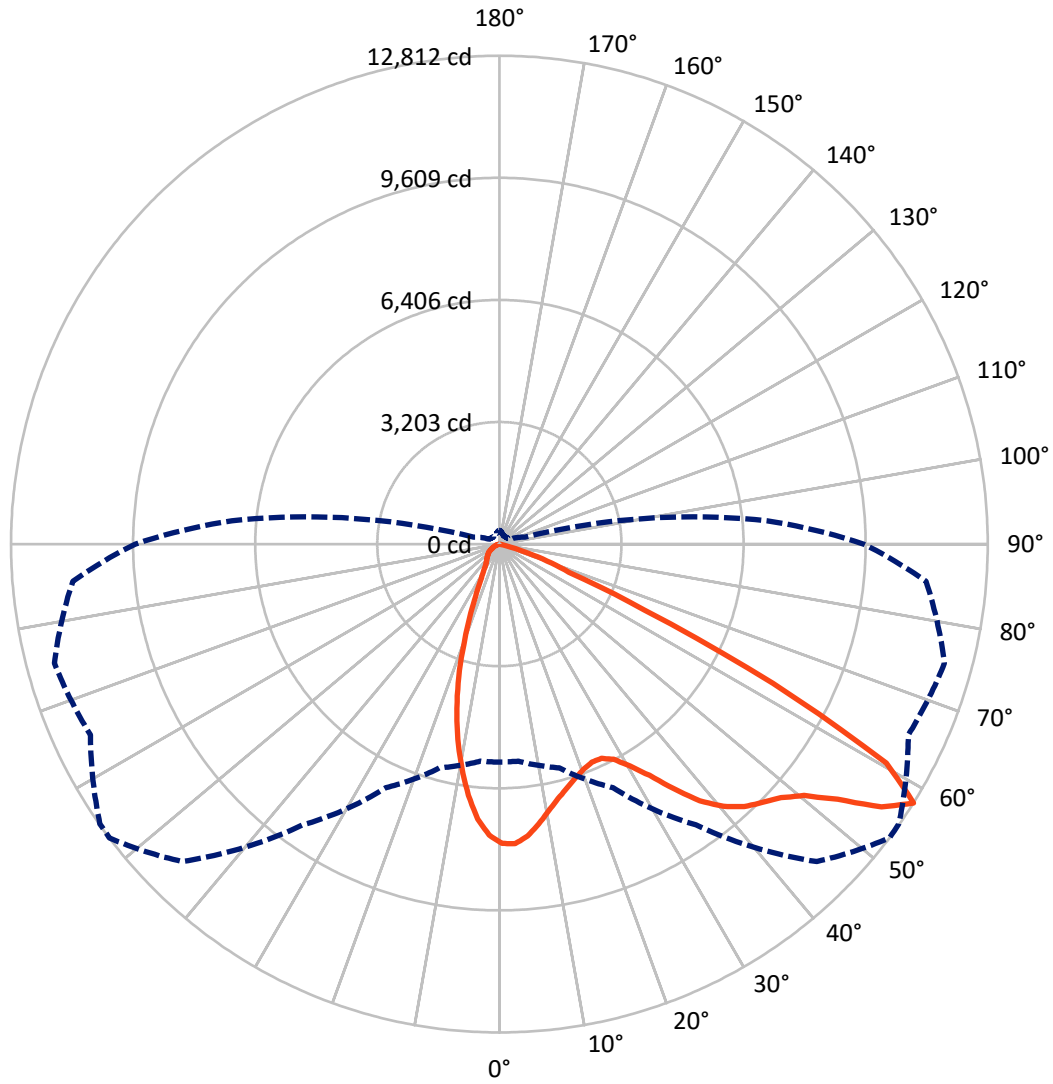
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	2956.7	0.0	2956.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14942.6	0.0	14942.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17899.3	0.0	17899.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	671.8	3.8
10°-20°	1474.8	8.2
20°-30°	1921.3	10.7
30°-40°	2786.8	15.6
40°-50°	4021.2	22.5
50°-60°	4863.3	27.2
60°-70°	1982.1	11.1
70°-80°	178.1	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°	17899.3	100.0
0°-180°	17899.3	100.0

**Coefficient of Utilization**



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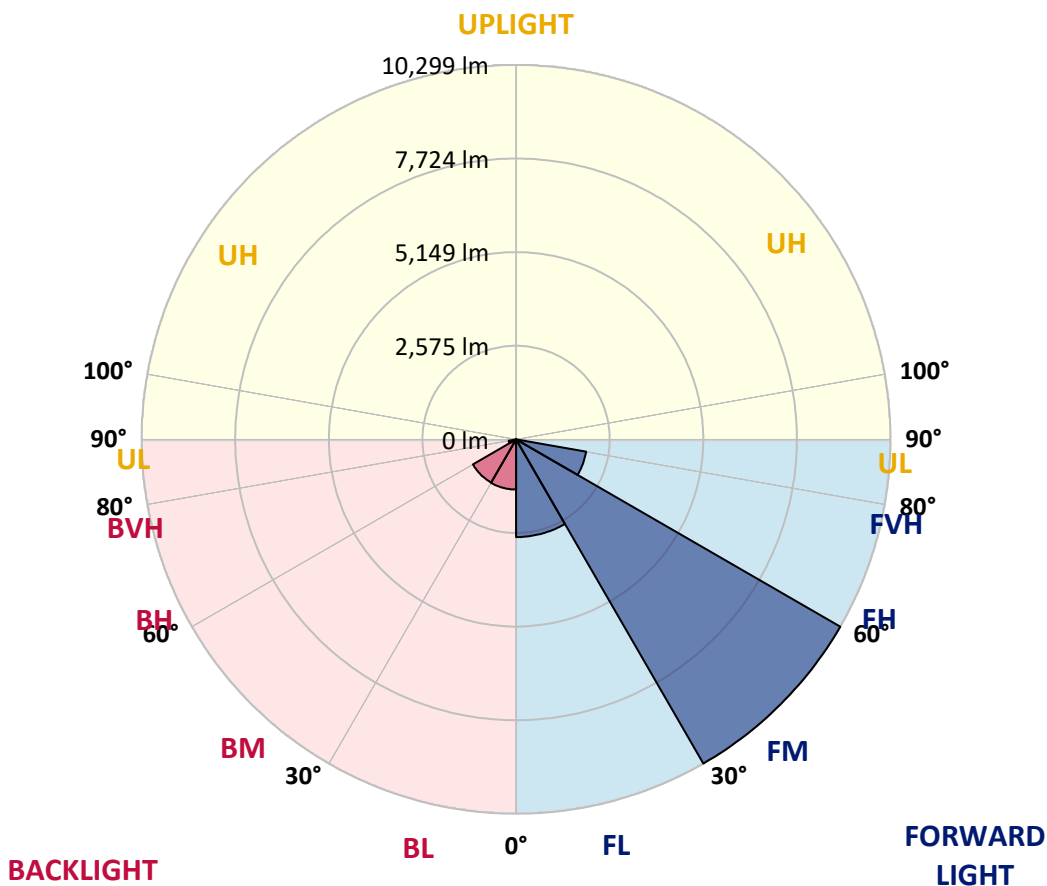
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2687.9	15.0			
FM (30°-60°)	10298.9	57.5			
FH (60°-80°)	1955.8	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1379.9	7.7	B3/2500		
BM (30°-60°)	1372.4	7.7	B2/2500		
BH (60°-80°)	204.4	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7
2.5°	7742.0	7759.5	7790.2	7829.7	7856.0	7869.2	7869.2	7906.5	7882.4	7862.6	7840.7
5°	7410.7	7428.2	7469.9	7533.6	7597.2	7643.2	7695.9	7735.4	7750.7	7750.7	7713.4
7.5°	6943.4	6967.5	6993.9	7081.6	7219.8	7322.9	7412.9	7469.9	7553.3	7579.6	7527.0
10°	6441.0	6465.2	6524.4	6645.1	6803.0	6956.6	7110.1	7182.5	7325.1	7399.7	7340.5
12.5°	6015.4	6026.4	6105.4	6250.2	6452.0	6662.6	6849.1	6923.7	7125.5	7237.4	7167.2
15°	5664.4	5671.0	5750.0	5910.1	6142.7	6401.5	6636.3	6713.1	6961.0	7129.9	7024.6
17.5°	5399.0	5401.2	5469.2	5642.5	5886.0	6173.4	6452.0	6546.3	6866.6	7070.7	6912.7
20°	5265.1	5258.6	5306.8	5458.2	5688.6	5975.9	6305.0	6421.3	6814.0	7061.9	6827.1
22.5°	5267.3	5252.0	5271.7	5379.2	5574.5	5844.3	6212.9	6344.5	6818.4	7099.2	6754.7
25°	5392.4	5370.5	5374.8	5431.9	5570.1	5815.8	6226.0	6366.4	6906.1	7224.2	6728.4
27.5°	5603.0	5578.9	5578.9	5607.4	5682.0	5905.7	6390.6	6550.7	7140.9	7467.7	6783.3
30°	5875.0	5850.9	5842.1	5870.6	5932.1	6138.3	6756.9	6923.7	7542.3	7867.0	6958.8
32.5°	6186.6	6158.0	6173.4	6212.9	6272.1	6557.3	7228.6	7450.2	8044.7	8404.5	7274.7
35°	6515.6	6491.5	6561.7	6647.3	6739.4	7138.7	7880.2	8073.2	8661.2	9073.6	7757.3
37.5°	6829.3	6818.4	6965.4	7145.2	7336.1	7836.3	8542.7	8691.9	9189.9	9802.0	8347.5
40°	7143.1	7140.9	7393.1	7709.1	8014.0	8531.7	9045.1	9167.9	9512.4	10368.0	8913.5
42.5°	7494.1	7494.1	7842.9	8264.1	8669.9	9119.7	9413.6	9468.5	9657.2	10694.8	9339.1
45°	7829.7	7849.5	8253.1	8742.3	9222.8	9578.2	9668.1	9672.5	9716.4	10887.9	9692.3
47.5°	8095.2	8112.7	8595.4	9159.2	9676.9	9927.0	9940.2	9920.4	9872.2	11072.2	9964.3
50°	8310.2	8336.5	8841.1	9437.8	9988.4	10262.7	10363.6	10343.8	10221.0	11269.6	10155.2
52.5°	8415.5	8452.8	8926.6	9576.0	10335.0	10837.4	11118.2	11164.3	10743.1	11379.3	10337.2
55°	7573.0	7627.9	8064.5	8952.9	10528.1	11725.9	12166.9	12158.1	11309.1	11706.2	10780.4
57.5°	5719.3	5714.9	6076.9	7048.7	8992.4	11776.4	12811.9	12794.3	11837.8	12085.7	11234.5
60°	3894.0	3867.7	3964.2	4433.7	6287.5	9593.5	11660.1	11897.0	11462.7	11164.3	9538.7
62.5°	3205.2	3181.0	3150.3	3020.9	3611.0	5975.9	8055.7	8415.5	8358.4	7759.5	5982.5
65°	2623.8	2643.5	2729.1	2674.3	2511.9	3064.8	4181.4	4394.2	4016.9	3380.7	2090.7
67.5°	1934.9	1943.7	2055.6	2345.2	2257.4	2040.2	1967.8	2003.0	1173.7	539.7	348.8
70°	1143.0	1149.6	1252.7	1641.0	1831.8	1566.4	1329.5	1309.7	465.1	144.8	158.0
72.5°	647.2	634.0	653.8	781.0	998.2	831.5	684.5	623.0	140.4	81.2	81.2
75°	307.1	298.4	256.7	241.3	219.4	140.4	87.8	74.6	35.1	32.9	32.9
77.5°	2.2	6.6	4.4	6.6	6.6	4.4	2.2	2.2	6.6	6.6	8.8
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°	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7	7851.7
2.5°	7801.2	7735.4	7720.0	7715.6	7654.2	7588.4	7520.4	7494.1	7454.6	7430.4	7450.2
5°	7654.2	7559.9	7476.5	7399.7	7263.7	7114.5	6985.1	6901.7	6822.8	6770.1	6783.3
7.5°	7445.8	7322.9	7132.1	6936.8	6686.7	6463.0	6212.9	6059.3	5916.7	5837.7	5875.0
10°	7224.2	7061.9	6756.9	6425.7	6033.0	5682.0	5324.4	5032.6	4863.7	4703.5	4721.1
12.5°	7007.0	6792.0	6335.7	5833.3	5337.5	4819.8	4280.1	3876.5	3600.0	3400.4	3369.7
15°	6805.2	6528.8	5925.5	5263.0	4587.3	3898.4	3209.5	2632.6	2312.3	2114.8	2101.7
17.5°	6625.3	6283.1	5499.9	4666.2	3819.4	2937.5	2145.5	1713.4	1529.1	1443.5	1434.8
20°	6452.0	6035.2	5065.5	4060.7	2981.4	2062.2	1480.8	1281.2	1222.0	1186.9	1191.2
22.5°	6285.3	5765.3	4609.2	3389.4	2235.5	1447.9	1147.4	1070.6	1064.0	1068.4	1070.6
25°	6144.9	5517.4	4139.7	2742.3	1594.9	1103.5	958.7	936.8	956.5	985.0	989.4
27.5°	6072.5	5315.6	3681.2	2090.7	1153.9	897.3	831.5	840.2	875.3	906.0	910.4
30°	6092.2	5164.2	3207.4	1515.9	888.5	756.9	734.9	752.5	787.6	816.1	820.5
32.5°	6232.6	5087.5	2722.5	1103.5	730.5	660.3	651.6	664.7	695.4	717.4	719.6
35°	6511.2	5105.0	2261.8	844.6	627.4	587.9	585.7	594.5	609.9	625.2	627.4
37.5°	6921.5	5247.6	1807.7	702.0	568.2	539.7	530.9	530.9	541.9	548.5	552.8
40°	7362.4	5462.6	1447.9	620.8	526.5	495.8	478.3	471.7	480.4	489.2	491.4
42.5°	7726.6	5677.6	1175.9	563.8	493.6	451.9	430.0	425.6	436.6	451.9	456.3
45°	8005.2	5844.3	980.6	517.7	456.3	410.2	386.1	386.1	405.9	432.2	436.6
47.5°	8259.7	5978.1	835.8	476.1	421.2	372.9	348.8	353.2	386.1	421.2	427.8
50°	8433.0	6085.6	728.3	438.8	392.7	342.2	320.3	329.1	368.6	410.2	416.8
52.5°	8619.5	6217.3	658.1	405.9	366.4	318.1	298.4	304.9	348.8	394.9	403.7
55°	9135.0	6658.2	655.9	362.0	320.3	285.2	276.4	278.6	322.5	375.1	386.1
57.5°	9556.2	7046.5	699.8	304.9	267.6	250.1	245.7	247.9	287.4	346.6	359.8
60°	7906.5	5475.8	579.2	252.3	223.8	219.4	212.8	217.2	254.5	307.1	318.1
62.5°	4679.4	3130.6	276.4	193.1	190.9	186.5	179.9	188.7	223.8	269.8	276.4
65°	1599.3	928.0	175.5	158.0	162.3	155.8	149.2	158.0	188.7	215.0	217.2
67.5°	307.1	245.7	140.4	131.6	133.8	120.7	118.5	127.2	144.8	149.2	147.0
70°	160.1	142.6	107.5	107.5	103.1	85.6	85.6	94.3	94.3	87.8	85.6
72.5°	83.4	79.0	70.2	79.0	65.8	52.7	52.7	57.0	52.7	43.9	43.9
75°	32.9	32.9	30.7	39.5	28.5	24.1	21.9	26.3	19.7	15.4	15.4
77.5°	8.8	8.8	8.8	11.0	6.6	6.6	4.4	4.4	2.2	0.0	0.0
80°	0.0	2.2	0.0	2.2	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)