

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: P638851

Luminaire Tested: GWS-SA4F-760-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638851  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-760-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

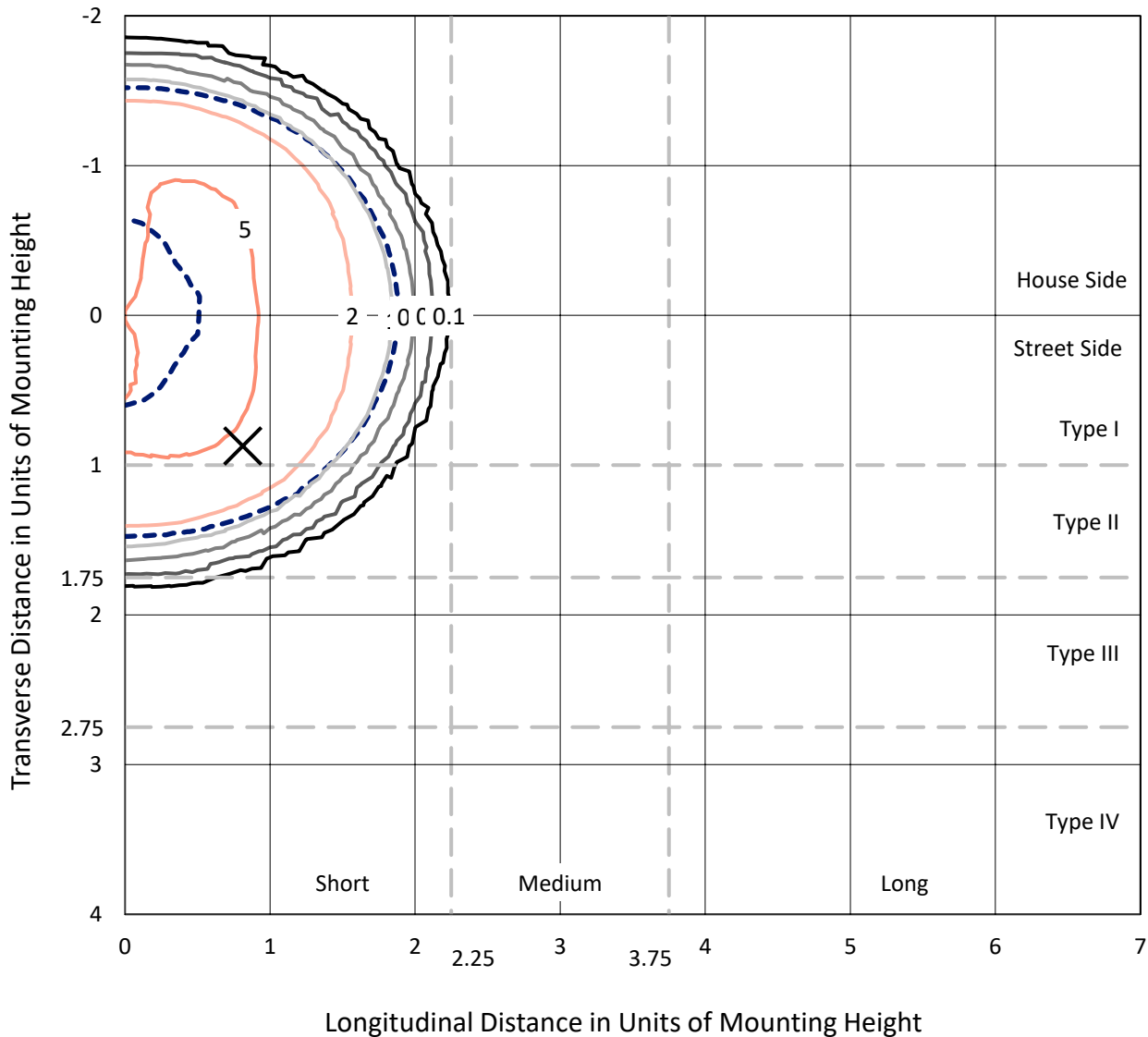
Lumens per Lamp: N/A  
Luminaire Lumens: 22248.3 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G0  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

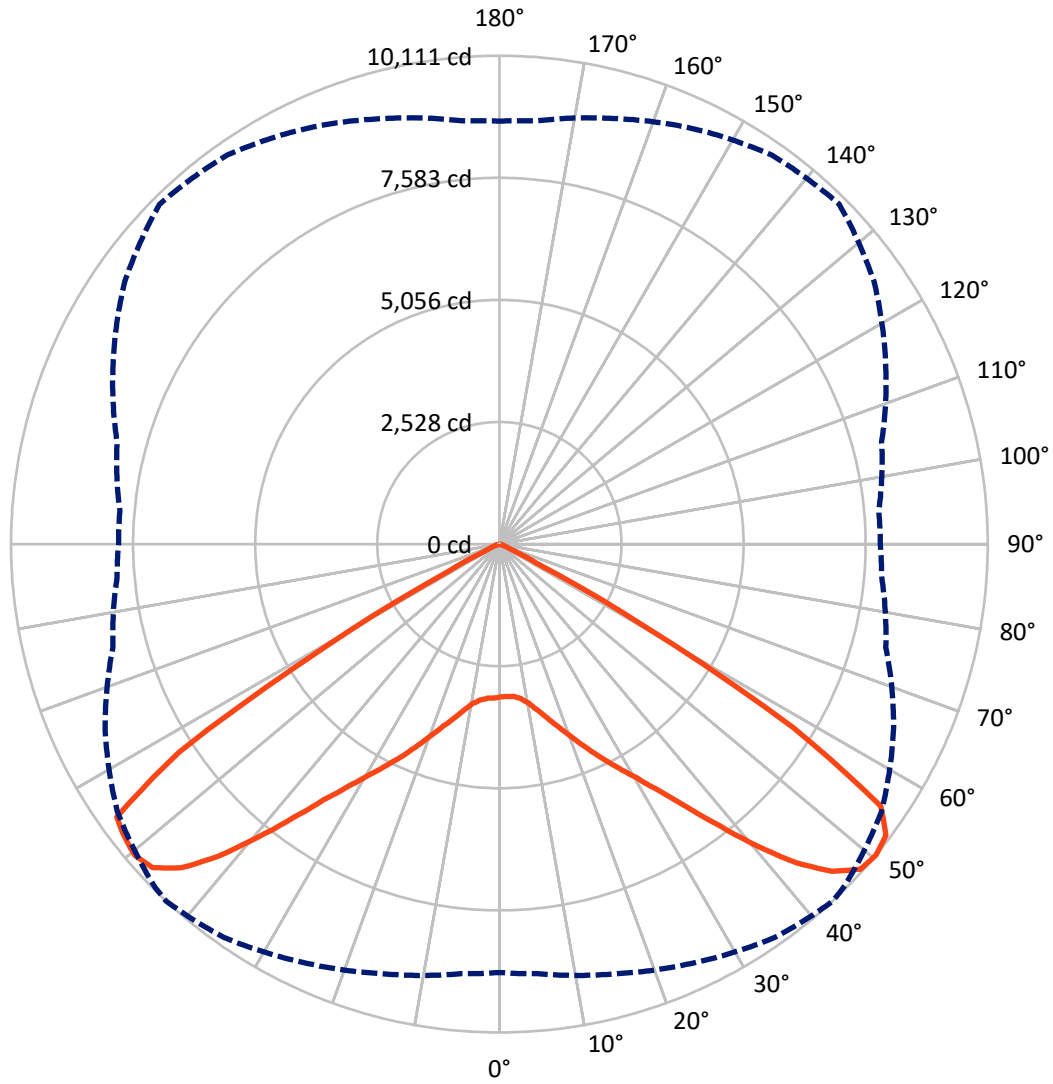
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11123.9	0.0	11123.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11124.4	0.0	11124.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22248.3	0.0	22248.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.6	1.4
10°-20°	1072.4	4.8
20°-30°	2169.6	9.8
30°-40°	4025.4	18.1
40°-50°	6682.0	30.0
50°-60°	6819.3	30.7
60°-70°	1118.3	5.0
70°-80°	49.0	0.2
80°-90°	0.7	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°	22248.3	100.0
0°-180°	22248.3	100.0

**Coefficient of Utilization**



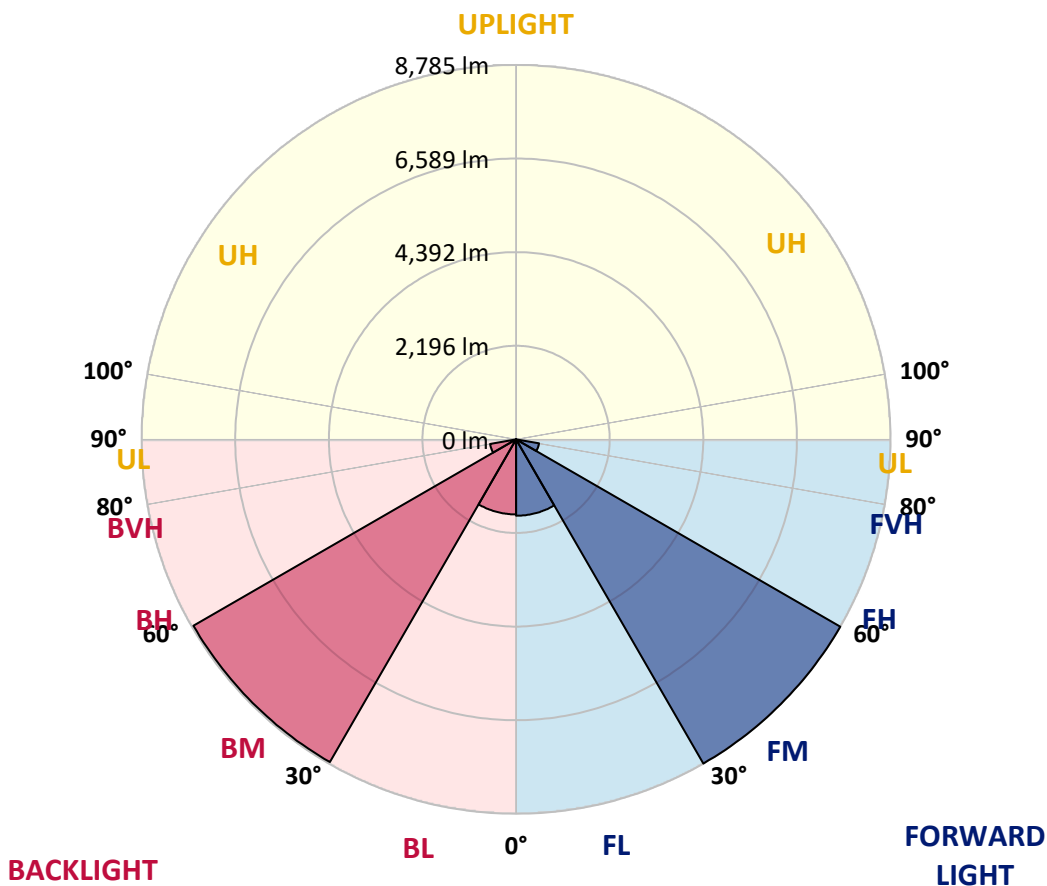
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1792.4	8.1			
FM (30°-60°)	8784.7	39.5			
FH (60°-80°)	547.1	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1761.3	7.9	B3/2500		
BM (30°-60°)	8742.0	39.3	B5		
BH (60°-80°)	620.2	2.8	B2/1000		G0/660
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5
2.5°	3105.4	3112.8	3122.6	3132.5	3144.8	3157.1	3164.5	3186.6	3181.7	3201.4	3201.4
5°	3071.0	3078.3	3090.6	3112.8	3139.9	3166.9	3186.6	3230.9	3255.5	3294.9	3309.7
7.5°	3088.2	3098.0	3112.8	3147.2	3189.1	3230.9	3253.1	3324.4	3373.6	3447.5	3489.3
10°	3144.8	3154.6	3179.2	3238.3	3292.4	3351.5	3378.6	3469.6	3548.3	3649.2	3708.3
12.5°	3208.8	3221.1	3270.3	3358.9	3452.4	3531.1	3568.0	3668.9	3750.1	3863.3	3956.8
15°	3275.2	3294.9	3371.2	3501.6	3634.5	3740.3	3779.6	3887.9	3969.1	4089.7	4195.5
17.5°	3430.2	3452.4	3538.5	3678.8	3860.8	3983.9	4018.3	4131.5	4193.0	4274.2	4385.0
20°	3624.6	3666.5	3772.3	3942.1	4141.4	4259.5	4284.1	4394.8	4389.9	4424.4	4520.3
22.5°	3865.8	3895.3	4011.0	4212.7	4436.7	4567.1	4623.7	4670.4	4608.9	4579.4	4640.9
25°	4116.8	4151.2	4276.7	4498.2	4749.2	4899.3	4946.0	4982.9	4884.5	4773.8	4781.2
27.5°	4441.6	4466.2	4589.2	4825.4	5076.4	5246.2	5288.1	5352.0	5221.6	5044.4	4995.2
30°	4827.9	4852.5	4982.9	5231.5	5480.0	5625.2	5689.2	5767.9	5625.2	5403.7	5347.1
32.5°	5280.7	5305.3	5472.6	5728.5	5932.8	6090.2	6151.8	6235.4	6122.2	5873.7	5809.7
35°	5822.0	5836.8	6033.7	6311.7	6528.3	6680.8	6722.7	6821.1	6695.6	6447.1	6412.6
37.5°	6449.5	6466.7	6680.8	7003.2	7224.6	7394.4	7460.9	7487.9	7335.4	7057.3	7030.2
40°	7138.5	7195.1	7404.3	7751.2	7999.8	8213.8	8272.9	8181.8	7967.8	7588.8	7539.6
42.5°	7857.0	7906.3	8140.0	8516.5	8804.4	9023.4	9025.9	8829.0	8464.8	7940.7	7866.9
45°	8455.0	8474.7	8777.3	9156.3	9510.6	9665.7	9680.4	9323.6	8774.9	8144.9	7987.5
47.5°	8865.9	8897.9	9161.2	9525.4	9916.6	10056.9	10027.4	9582.0	8922.5	8277.8	8017.0
50°	8870.8	8925.0	9210.4	9562.3	9941.3	10111.0	10069.2	9655.8	9006.2	8282.7	7945.6
52.5°	8085.9	8174.5	8639.5	9148.9	9729.6	10020.0	10029.8	9751.8	8974.2	8204.0	7881.6
55°	6100.1	6196.1	6781.7	7650.3	8772.4	9582.0	9722.3	9638.6	8937.3	8238.4	7994.8
57.5°	3228.4	3154.6	3479.4	4340.7	5750.7	7182.8	7593.7	8263.1	8526.3	8280.3	8204.0
60°	703.8	750.5	999.0	1346.0	2244.2	3378.6	3779.6	4926.3	6289.6	6894.9	7332.9
62.5°	302.7	297.7	310.0	351.9	514.3	856.3	1045.8	1707.7	2694.5	3700.9	4382.5
65°	248.5	251.0	260.8	260.8	243.6	246.1	258.4	391.3	629.9	883.4	1186.1
67.5°	187.0	189.5	206.7	211.6	199.3	177.2	174.7	147.6	155.0	194.4	201.8
70°	118.1	118.1	128.0	132.9	132.9	123.0	120.6	105.8	103.3	118.1	132.9
72.5°	64.0	64.0	68.9	71.4	68.9	66.4	66.4	64.0	61.5	71.4	91.0
75°	27.1	27.1	29.5	29.5	27.1	27.1	27.1	27.1	27.1	32.0	49.2
77.5°	4.9	7.4	9.8	7.4	4.9	4.9	4.9	7.4	7.4	9.8	14.8
80°	2.5	2.5	4.9	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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°	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5	3164.5
2.5°	3218.6	3191.5	3201.4	3206.3	3198.9	3194.0	3166.9	3159.5	3147.2	3127.6	3122.6
5°	3326.9	3304.7	3302.3	3287.5	3253.1	3211.2	3159.5	3137.4	3112.8	3088.2	3083.3
7.5°	3509.0	3481.9	3464.7	3415.5	3336.7	3270.3	3184.2	3137.4	3105.4	3073.4	3066.0
10°	3742.7	3710.7	3661.5	3570.5	3464.7	3368.7	3267.8	3206.3	3157.1	3112.8	3110.3
12.5°	3991.3	3956.8	3868.2	3752.6	3624.6	3536.0	3408.1	3322.0	3248.1	3181.7	3174.3
15°	4252.1	4210.3	4089.7	3951.9	3833.8	3742.7	3602.5	3464.7	3351.5	3255.5	3245.7
17.5°	4451.4	4399.7	4257.0	4153.7	4057.7	3964.2	3806.7	3624.6	3474.5	3358.9	3331.8
20°	4576.9	4527.7	4392.4	4335.8	4291.5	4225.0	4038.0	3848.5	3681.2	3538.5	3513.9
22.5°	4697.5	4638.4	4520.3	4520.3	4554.8	4527.7	4325.9	4109.4	3912.5	3747.7	3710.7
25°	4832.8	4786.1	4702.4	4771.3	4857.4	4855.0	4648.3	4377.6	4151.2	3966.7	3929.7
27.5°	5029.7	4982.9	4953.4	5083.8	5192.1	5184.7	4958.3	4665.5	4426.8	4244.7	4210.3
30°	5376.6	5332.4	5300.4	5457.8	5595.6	5544.0	5295.4	5012.5	4771.3	4564.6	4540.0
32.5°	5839.3	5792.5	5750.7	5908.2	6031.2	5964.8	5728.5	5462.8	5184.7	4982.9	4933.7
35°	6447.1	6348.6	6306.8	6493.8	6545.5	6471.7	6245.3	6011.5	5716.2	5484.9	5452.9
37.5°	7074.5	6958.9	6929.4	7091.8	7175.4	7148.4	6882.6	6639.0	6319.1	6063.2	6026.3
40°	7611.0	7505.2	7453.5	7706.9	7896.4	7913.6	7674.9	7377.2	7000.7	6735.0	6668.5
42.5°	7925.9	7834.9	7822.6	8216.3	8526.3	8747.8	8462.4	8154.8	7758.6	7458.4	7404.3
45°	7997.3	7938.2	8041.6	8558.3	9040.6	9444.2	9200.6	8875.8	8447.6	8130.2	8078.5
47.5°	7989.9	7970.2	8154.8	8735.5	9345.8	9842.8	9722.3	9355.6	8942.2	8610.0	8560.8
50°	7884.1	7886.6	8194.2	8824.1	9468.8	9951.1	9830.5	9490.9	9121.8	8794.6	8755.2
52.5°	7842.3	7827.5	8120.3	8797.0	9594.3	9901.9	9631.2	9249.8	8838.9	8435.3	8376.2
55°	7989.9	7953.0	8130.2	8774.9	9609.1	9874.8	9161.2	8334.4	7492.9	7015.5	6976.1
57.5°	8211.4	8172.0	8255.7	8612.5	8838.9	8211.4	6742.3	5408.6	4542.5	4175.8	4015.9
60°	7332.9	7305.8	7241.9	6811.2	5841.7	4407.1	3002.1	1914.4	1375.5	1112.2	1112.2
62.5°	4549.8	4512.9	4166.0	3095.6	2249.1	1301.7	716.1	447.8	339.6	317.4	315.0
65°	1277.1	1269.7	1050.7	743.1	472.5	292.8	258.4	263.3	258.4	251.0	248.5
67.5°	191.9	211.6	211.6	172.2	164.9	184.6	216.5	231.3	219.0	206.7	201.8
70°	123.0	132.9	128.0	110.7	118.1	137.8	155.0	157.5	150.1	137.8	135.3
72.5°	86.1	96.0	78.7	71.4	73.8	81.2	88.6	88.6	86.1	81.2	76.3
75°	51.7	51.7	36.9	34.4	34.4	36.9	36.9	41.8	41.8	39.4	36.9
77.5°	17.2	19.7	12.3	9.8	9.8	9.8	12.3	14.8	14.8	12.3	9.8
80°	2.5	4.9	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9	2.5
82.5°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
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)