

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: P637696

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637696  
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-SA4D-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

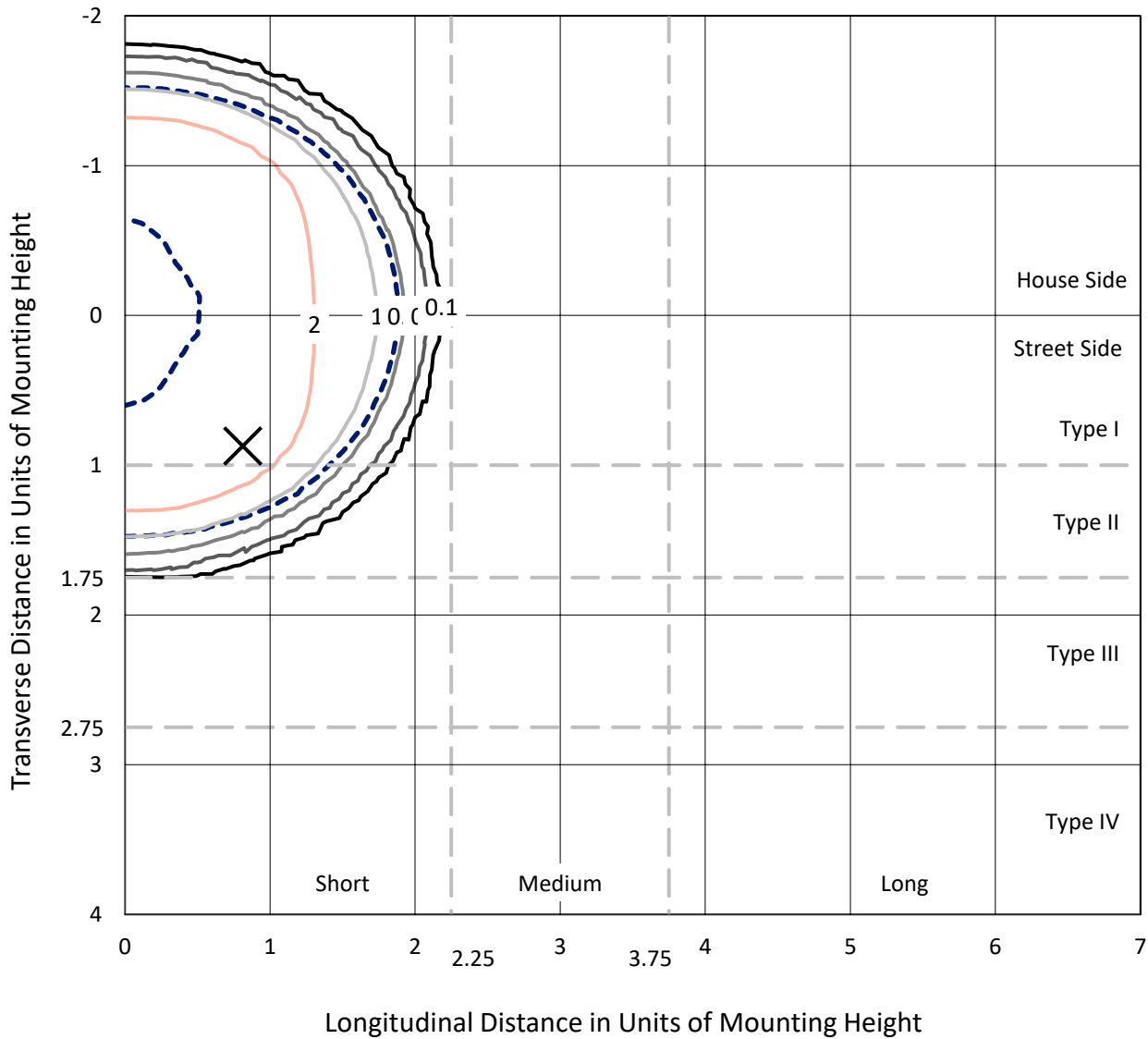
Lumens per Lamp: N/A  
Luminaire Lumens: 15654.3 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

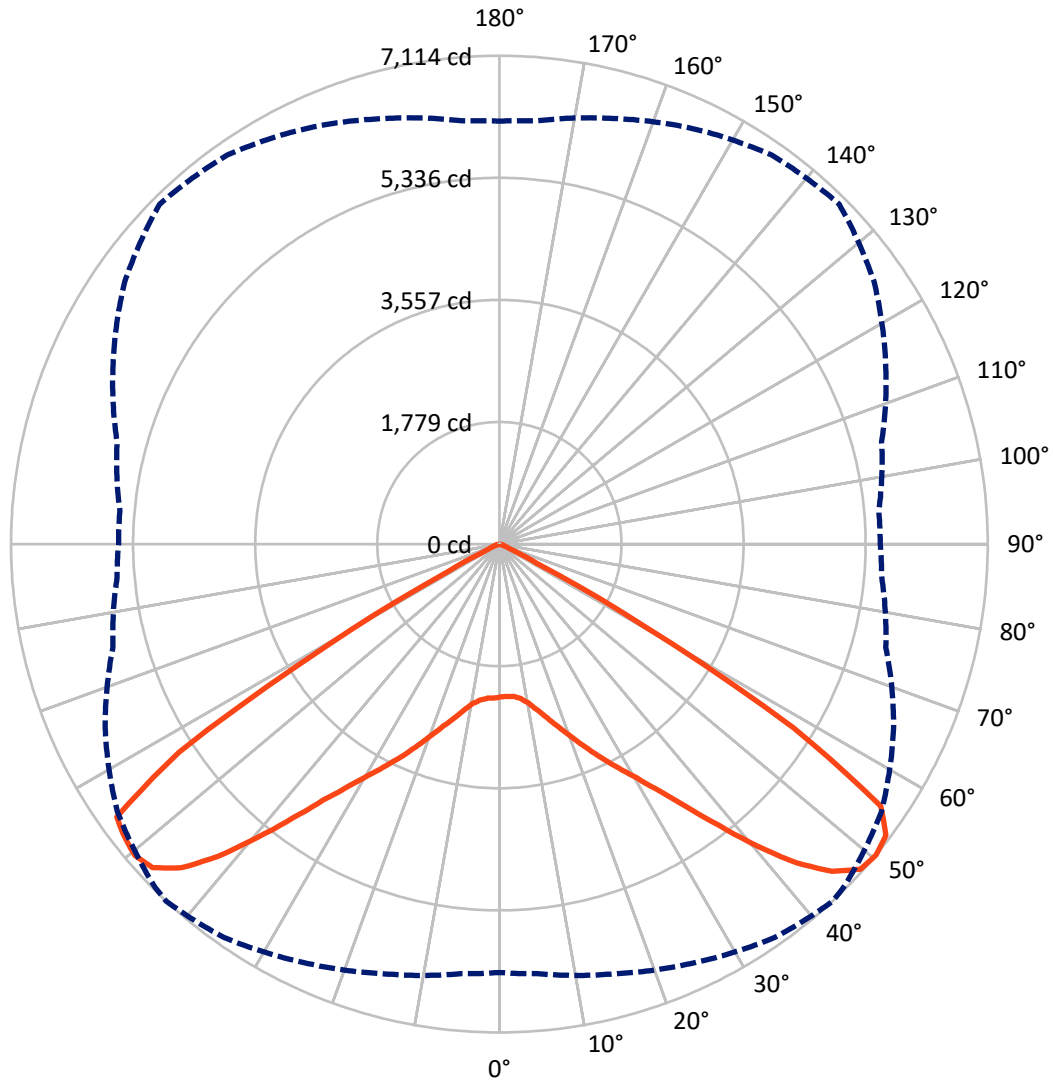
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	7827.0	0.0	7827.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7827.3	0.0	7827.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15654.3	0.0	15654.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.3	1.4
10°-20°	754.6	4.8
20°-30°	1526.6	9.8
30°-40°	2832.4	18.1
40°-50°	4701.6	30.0
50°-60°	4798.2	30.7
60°-70°	786.8	5.0
70°-80°	34.4	0.2
80°-90°	0.5	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°	15654.3	100.0
0°-180°	15654.3	100.0

**Coefficient of Utilization**



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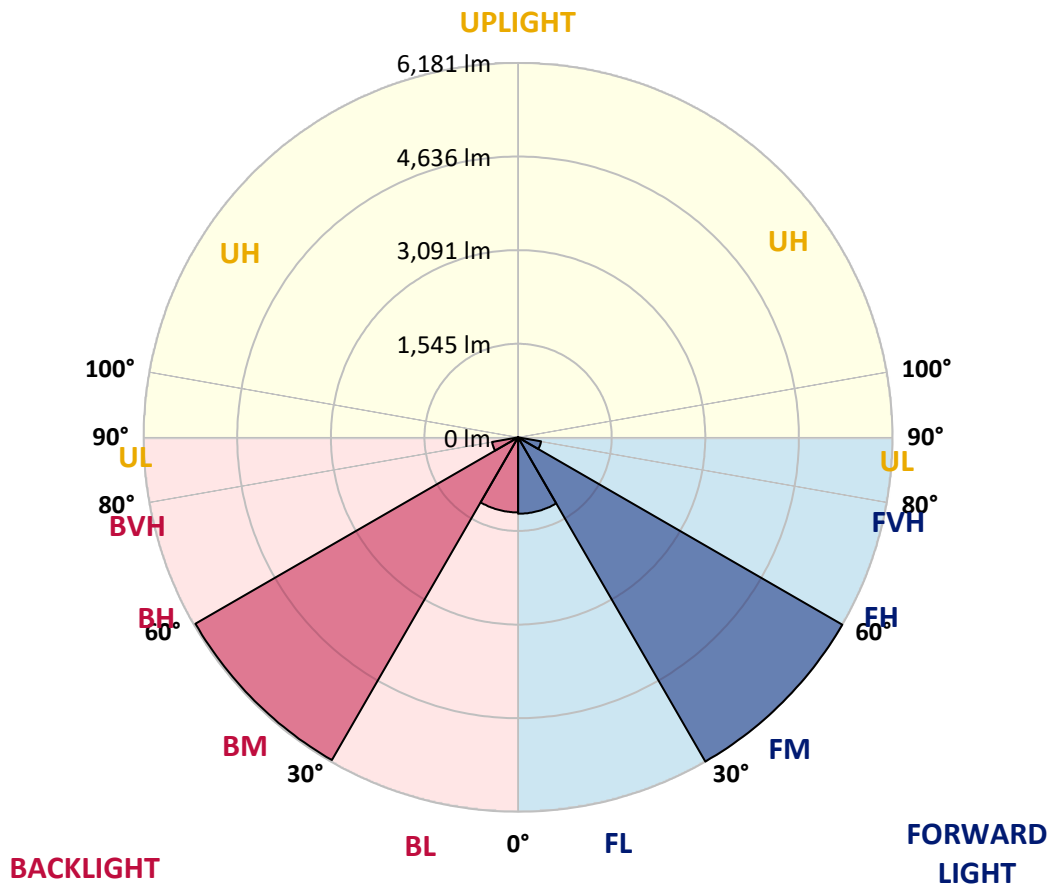
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1261.2	8.1			
FM (30°-60°)	6181.1	39.5			
FH (60°-80°)	384.9	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1239.3	7.9	B3/2500		
BM (30°-60°)	6151.0	39.3	B4/8500		
BH (60°-80°)	436.4	2.8	B1/500		G0/660
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6
2.5°	2185.0	2190.2	2197.1	2204.1	2212.7	2221.4	2226.6	2242.2	2238.7	2252.5	2252.5
5°	2160.8	2166.0	2174.6	2190.2	2209.3	2228.3	2242.2	2273.3	2290.6	2318.3	2328.7
7.5°	2172.9	2179.8	2190.2	2214.5	2243.9	2273.3	2288.9	2339.1	2373.7	2425.7	2455.1
10°	2212.7	2219.7	2237.0	2278.5	2316.6	2358.2	2377.2	2441.3	2496.7	2567.7	2609.2
12.5°	2257.7	2266.4	2301.0	2363.4	2429.2	2484.6	2510.5	2581.5	2638.6	2718.3	2784.1
15°	2304.5	2318.3	2372.0	2463.8	2557.3	2631.7	2659.4	2735.6	2792.7	2877.6	2952.0
17.5°	2413.6	2429.2	2489.7	2588.4	2716.6	2803.1	2827.4	2907.0	2950.3	3007.4	3085.3
20°	2550.3	2579.8	2654.2	2773.7	2913.9	2997.0	3014.4	3092.3	3088.8	3113.1	3180.6
22.5°	2720.0	2740.8	2822.2	2964.2	3121.7	3213.5	3253.3	3286.2	3242.9	3222.1	3265.4
25°	2896.6	2920.9	3009.2	3165.0	3341.6	3447.2	3480.1	3506.1	3436.8	3358.9	3364.1
27.5°	3125.2	3142.5	3229.1	3395.3	3571.9	3691.3	3720.8	3765.8	3674.0	3549.4	3514.7
30°	3397.0	3414.3	3506.1	3681.0	3855.8	3958.0	4003.0	4058.4	3958.0	3802.1	3762.3
32.5°	3715.6	3732.9	3850.6	4030.7	4174.4	4285.2	4328.5	4387.4	4307.7	4132.8	4087.8
35°	4096.5	4106.9	4245.4	4441.0	4593.4	4700.7	4730.2	4799.4	4711.1	4536.3	4512.0
37.5°	4538.0	4550.1	4700.7	4927.6	5083.4	5202.8	5249.6	5268.6	5161.3	4965.6	4946.6
40°	5022.8	5062.6	5209.8	5453.9	5628.8	5779.4	5821.0	5756.9	5606.3	5339.6	5305.0
42.5°	5528.4	5563.0	5727.5	5992.4	6194.9	6349.0	6350.8	6212.3	5956.0	5587.2	5535.3
45°	5949.1	5962.9	6175.9	6442.5	6691.8	6800.9	6811.3	6560.3	6174.2	5730.9	5620.1
47.5°	6238.2	6260.7	6446.0	6702.2	6977.5	7076.2	7055.4	6742.1	6278.0	5824.4	5640.9
50°	6241.7	6279.8	6480.6	6728.2	6994.8	7114.3	7084.9	6794.0	6336.9	5827.9	5590.7
52.5°	5689.4	5751.7	6078.9	6437.3	6845.9	7050.2	7057.2	6861.5	6314.4	5772.5	5545.7
55°	4292.1	4359.7	4771.7	5382.9	6172.4	6742.1	6840.7	6781.9	6288.4	5796.7	5625.3
57.5°	2271.6	2219.7	2448.2	3054.2	4046.3	5053.9	5343.1	5814.0	5999.3	5826.2	5772.5
60°	495.2	528.1	702.9	947.1	1579.0	2377.2	2659.4	3466.3	4425.5	4851.4	5159.6
62.5°	213.0	209.5	218.2	247.6	361.9	602.5	735.8	1201.6	1895.9	2604.0	3083.6
65°	174.9	176.6	183.5	183.5	171.4	173.1	181.8	275.3	443.2	621.6	834.5
67.5°	131.6	133.3	145.4	148.9	140.2	124.7	122.9	103.9	109.1	136.8	142.0
70°	83.1	83.1	90.0	93.5	93.5	86.6	84.8	74.5	72.7	83.1	93.5
72.5°	45.0	45.0	48.5	50.2	48.5	46.7	46.7	45.0	43.3	50.2	64.1
75°	19.0	19.0	20.8	20.8	19.0	19.0	19.0	19.0	19.0	22.5	34.6
77.5°	3.5	5.2	6.9	5.2	3.5	3.5	3.5	5.2	5.2	6.9	10.4
80°	1.7	1.7	3.5	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6
2.5°	2264.7	2245.6	2252.5	2256.0	2250.8	2247.4	2228.3	2223.1	2214.5	2200.6	2197.1
5°	2340.8	2325.3	2323.5	2313.1	2288.9	2259.5	2223.1	2207.5	2190.2	2172.9	2169.4
7.5°	2469.0	2449.9	2437.8	2403.2	2347.8	2301.0	2240.4	2207.5	2185.0	2162.5	2157.3
10°	2633.5	2610.9	2576.3	2512.3	2437.8	2370.3	2299.3	2256.0	2221.4	2190.2	2188.5
12.5°	2808.3	2784.1	2721.8	2640.4	2550.3	2488.0	2398.0	2337.4	2285.4	2238.7	2233.5
15°	2991.9	2962.4	2877.6	2780.6	2697.5	2633.5	2534.8	2437.8	2358.2	2290.6	2283.7
17.5°	3132.1	3095.7	2995.3	2922.6	2855.1	2789.3	2678.5	2550.3	2444.7	2363.4	2344.3
20°	3220.4	3185.8	3090.5	3050.7	3019.6	2972.8	2841.2	2707.9	2590.2	2489.7	2472.4
22.5°	3305.2	3263.7	3180.6	3180.6	3204.8	3185.8	3043.8	2891.4	2752.9	2636.9	2610.9
25°	3400.5	3367.6	3308.7	3357.2	3417.8	3416.0	3270.6	3080.2	2920.9	2791.0	2765.0
27.5°	3539.0	3506.1	3485.3	3577.1	3653.2	3648.1	3488.8	3282.7	3114.8	2986.7	2962.4
30°	3783.1	3751.9	3729.4	3840.2	3937.2	3900.8	3726.0	3526.9	3357.2	3211.7	3194.4
32.5°	4108.6	4075.7	4046.3	4157.1	4243.7	4196.9	4030.7	3843.7	3648.1	3506.1	3471.5
35°	4536.3	4467.0	4437.6	4569.2	4605.5	4553.6	4394.3	4229.8	4022.0	3859.3	3836.8
37.5°	4977.8	4896.4	4875.6	4989.9	5048.8	5029.7	4842.7	4671.3	4446.2	4266.2	4240.2
40°	5355.2	5280.8	5244.4	5422.7	5556.1	5568.2	5400.2	5190.7	4925.8	4738.8	4692.1
42.5°	5576.8	5512.8	5504.1	5781.1	5999.3	6155.1	5954.3	5737.8	5459.1	5247.9	5209.8
45°	5627.0	5585.5	5658.2	6021.8	6361.2	6645.1	6473.7	6245.1	5943.9	5720.5	5684.2
47.5°	5621.8	5608.0	5737.8	6146.5	6575.8	6925.6	6840.7	6582.8	6291.9	6058.2	6023.5
50°	5547.4	5549.1	5765.6	6208.8	6662.4	7001.8	6916.9	6678.0	6418.3	6188.0	6160.3
52.5°	5518.0	5507.6	5713.6	6189.7	6750.7	6967.1	6776.7	6508.3	6219.2	5935.2	5893.7
55°	5621.8	5595.9	5720.5	6174.2	6761.1	6948.1	6446.0	5864.2	5272.1	4936.2	4908.5
57.5°	5777.7	5750.0	5808.8	6059.9	6219.2	5777.7	4744.0	3805.6	3196.2	2938.2	2825.6
60°	5159.6	5140.5	5095.5	4792.5	4110.3	3100.9	2112.3	1347.0	967.9	782.6	782.6
62.5°	3201.4	3175.4	2931.3	2178.1	1582.5	915.9	503.8	315.1	238.9	223.4	221.6
65°	898.6	893.4	739.3	522.9	332.4	206.0	181.8	185.3	181.8	176.6	174.9
67.5°	135.0	148.9	148.9	121.2	116.0	129.9	152.4	162.8	154.1	145.4	142.0
70°	86.6	93.5	90.0	77.9	83.1	97.0	109.1	110.8	105.6	97.0	95.2
72.5°	60.6	67.5	55.4	50.2	51.9	57.1	62.3	62.3	60.6	57.1	53.7
75°	36.4	36.4	26.0	24.2	24.2	26.0	26.0	29.4	29.4	27.7	26.0
77.5°	12.1	13.9	8.7	6.9	6.9	6.9	8.7	10.4	10.4	8.7	6.9
80°	1.7	3.5	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	1.7
82.5°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
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)