

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: P636487

Luminaire Tested: GWS-SA3F-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-830-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

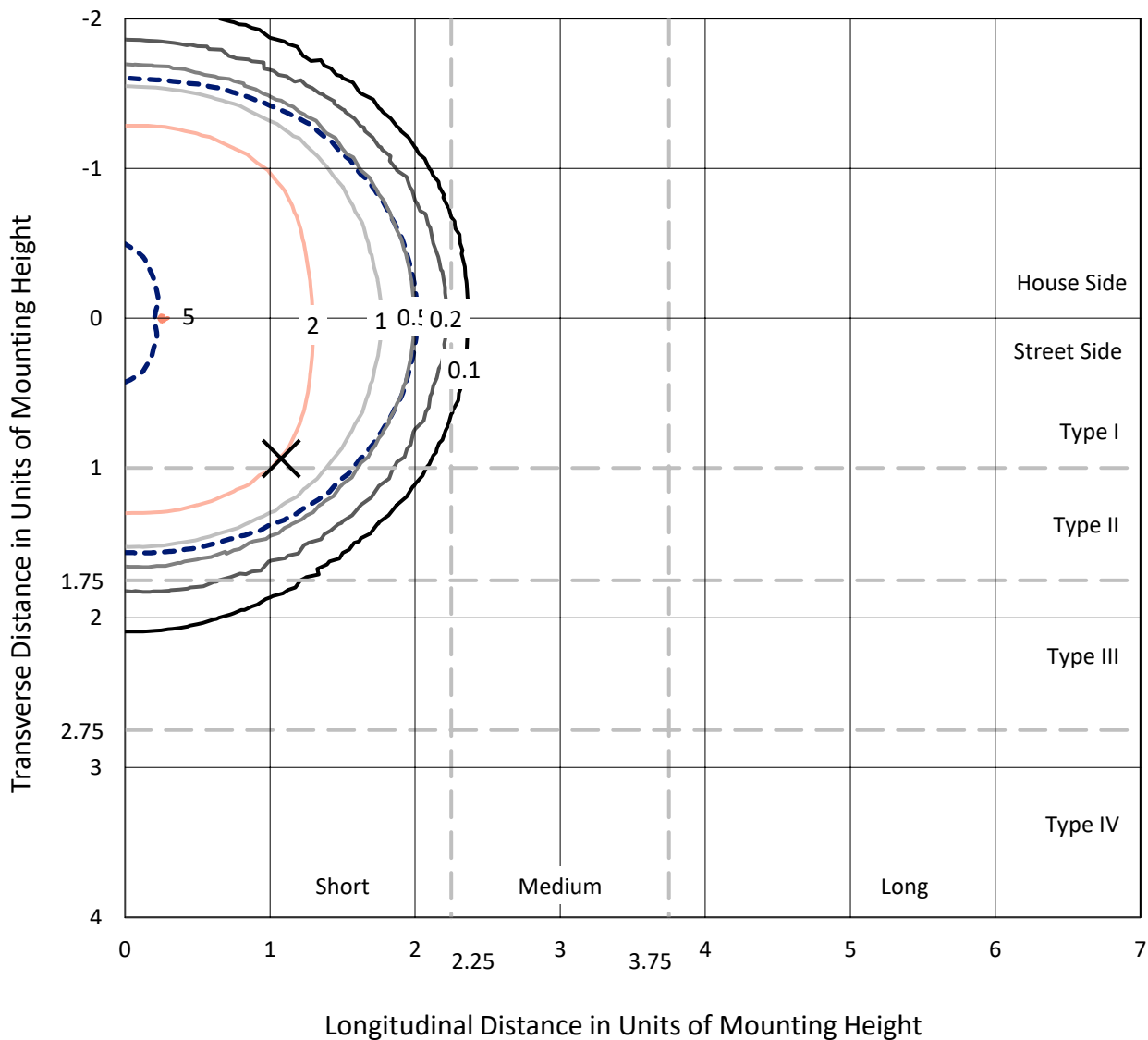
Lumens per Lamp: N/A  
Luminaire Lumens: 17122.3 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

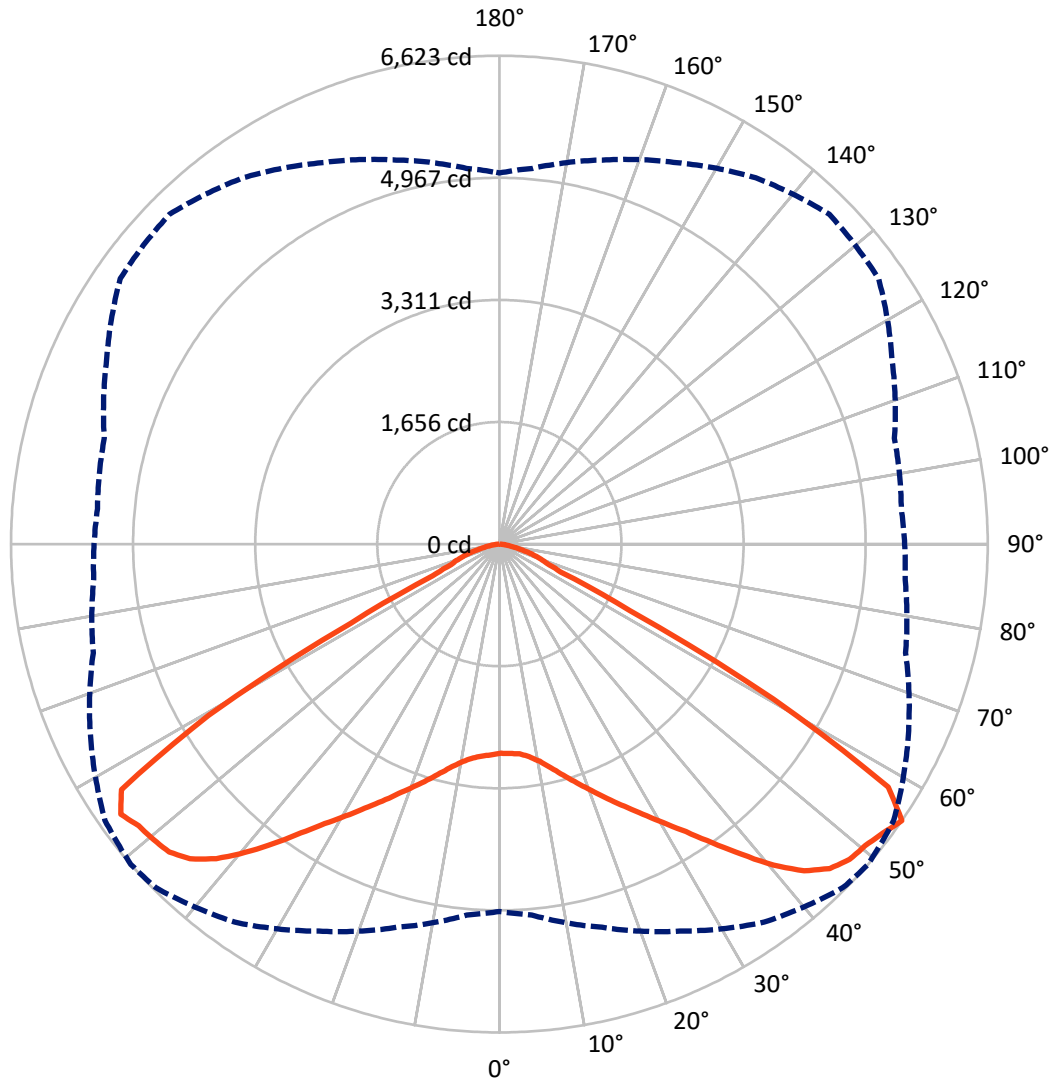
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8477.2	0.0	8477.2
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	8645.1	0.0	8645.1
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	17122.3	0.0	17122.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.7	1.6
10°-20°	912.7	5.3
20°-30°	1738.3	10.2
30°-40°	2946.9	17.2
40°-50°	4434.8	25.9
50°-60°	4854.3	28.4
60°-70°	1535.0	9.0
70°-80°	368.4	2.2
80°-90°	55.3	0.3
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°	17122.3	100.0
0°-180°	17122.3	100.0

**Coefficient of Utilization**



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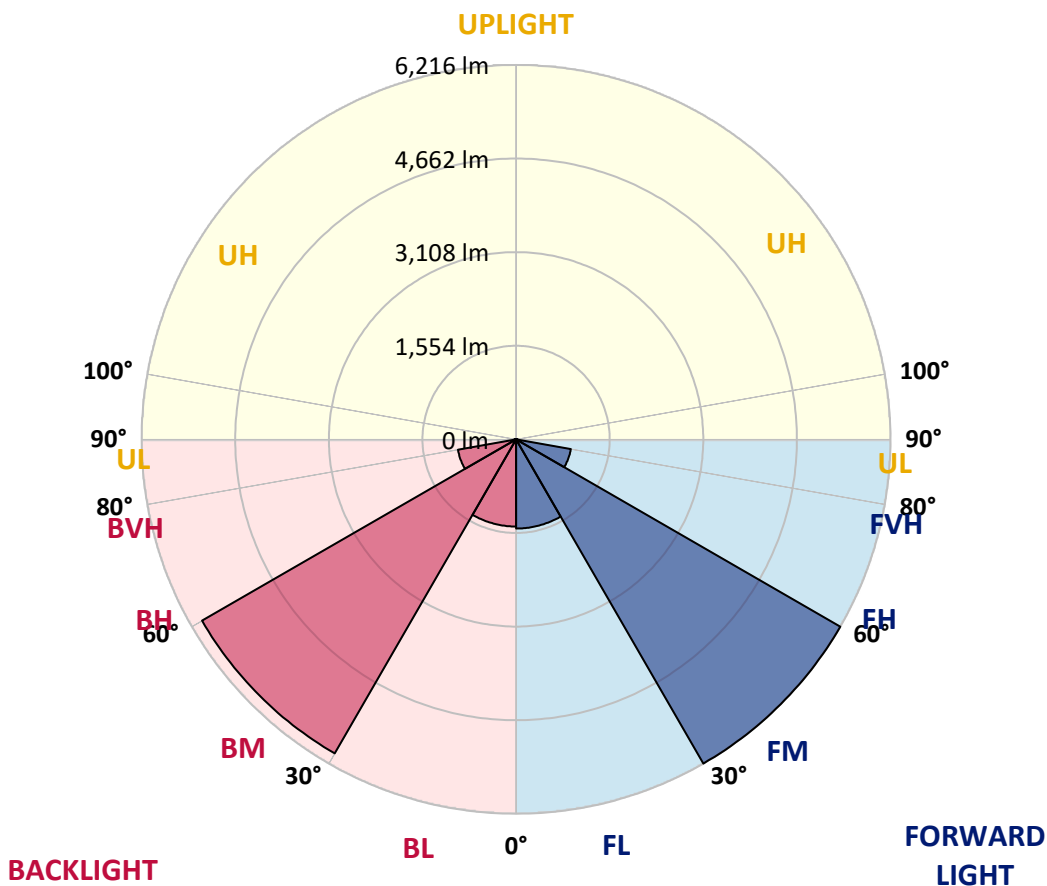
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.4	8.6			
FM (30°-60°)	6215.9	36.3			
FH (60°-80°)	923.3	5.4			G1/1800
FVH (80°-90°)	25.6	0.1			G1/100
BL (0°-30°)	1447.3	8.5	B3/2500		
BM (30°-60°)	6020.1	35.2	B4/8500		
BH (60°-80°)	980.0	5.7	B2/1000		G1/1800
BVH (80°-90°)	29.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4
2.5°	2794.6	2797.4	2803.0	2812.7	2822.5	2836.4	2842.0	2848.9	2847.6	2855.9	2855.9
5°	2780.7	2784.9	2793.2	2807.2	2823.9	2850.3	2857.3	2874.0	2890.7	2911.6	2918.6
7.5°	2797.4	2803.0	2812.7	2835.0	2860.1	2894.9	2908.8	2936.7	2968.7	3006.3	3021.6
10°	2829.5	2836.4	2853.1	2889.3	2929.7	2982.6	2995.2	3030.0	3081.5	3133.0	3163.6
12.5°	2865.7	2876.8	2907.4	2964.5	3024.4	3094.0	3113.5	3156.7	3212.4	3279.2	3321.0
15°	2907.4	2917.2	2964.5	3045.3	3138.6	3230.5	3252.8	3294.5	3357.2	3422.6	3481.1
17.5°	2995.2	3011.9	3067.6	3160.9	3269.5	3378.1	3403.1	3450.5	3500.6	3552.1	3607.8
20°	3114.9	3128.8	3199.8	3315.4	3443.5	3542.4	3567.4	3609.2	3632.9	3659.3	3706.7
22.5°	3234.7	3254.1	3334.9	3471.4	3621.8	3729.0	3748.5	3787.5	3770.7	3762.4	3793.0
25°	3383.6	3410.1	3489.5	3638.5	3791.6	3923.9	3939.2	3972.6	3944.8	3901.6	3900.2
27.5°	3568.8	3592.5	3674.7	3827.8	3979.6	4117.5	4146.7	4191.3	4130.0	4077.1	4039.5
30°	3788.8	3804.2	3894.7	4057.6	4213.5	4344.4	4382.0	4426.6	4380.6	4292.9	4255.3
32.5°	4045.1	4065.9	4170.4	4341.6	4480.9	4611.8	4649.4	4705.1	4654.9	4556.1	4508.7
35°	4352.8	4373.7	4483.7	4670.3	4812.3	4947.4	4973.8	5019.8	4957.1	4842.9	4805.3
37.5°	4687.0	4713.4	4852.7	5029.5	5178.5	5335.9	5337.2	5351.2	5262.1	5120.0	5078.3
40°	5062.9	5097.7	5237.0	5420.8	5600.4	5728.5	5727.1	5688.1	5537.8	5317.8	5253.7
42.5°	5434.7	5462.6	5603.2	5792.6	5972.2	6093.3	6057.1	5962.5	5745.2	5445.9	5360.9
45°	5703.5	5724.3	5871.9	6085.0	6267.4	6342.6	6277.1	6163.0	5869.2	5526.6	5401.3
47.5°	5830.2	5858.0	6007.0	6218.7	6424.7	6467.9	6389.9	6282.7	5941.6	5601.8	5433.3
50°	5761.9	5798.1	5966.6	6163.0	6395.5	6484.6	6428.9	6321.7	6018.2	5675.6	5490.4
52.5°	5585.1	5619.9	5833.0	6071.1	6334.2	6511.1	6509.7	6422.0	6105.9	5696.5	5493.2
55°	4980.8	5049.0	5380.4	5791.2	6259.0	6589.1	6622.5	6529.2	6119.8	5702.1	5522.4
57.5°	3241.6	3361.4	3676.1	4210.8	5149.3	5993.1	6218.7	6240.9	6019.5	5678.4	5528.0
60°	1353.5	1449.5	1698.8	2053.9	2829.5	3833.4	4270.6	4709.3	5238.4	5430.5	5476.5
62.5°	841.0	849.4	874.5	955.2	1214.2	1704.4	1985.6	2396.4	3183.1	3852.9	4162.0
65°	758.9	763.1	768.6	763.1	775.6	835.5	910.7	1054.1	1374.3	1707.1	2102.6
67.5°	668.4	673.9	678.1	673.9	678.1	680.9	689.3	701.8	760.3	807.6	843.8
70°	540.3	548.6	555.6	552.8	569.5	569.5	577.9	587.6	616.9	651.7	676.7
72.5°	412.2	405.2	413.6	416.3	431.7	440.0	452.5	463.7	497.1	518.0	550.0
75°	267.3	260.4	272.9	279.9	300.8	311.9	323.0	334.2	357.9	371.8	402.4
77.5°	144.8	143.4	156.0	165.7	188.0	201.9	210.3	218.6	238.1	242.3	261.8
80°	83.5	83.5	91.9	98.9	112.8	128.1	136.5	143.4	157.3	161.5	169.9
82.5°	46.0	46.0	50.1	54.3	65.4	73.8	80.8	86.3	98.9	103.0	107.2
85°	22.3	20.9	23.7	26.5	30.6	34.8	39.0	41.8	51.5	54.3	59.9
87.5°	2.8	2.8	2.8	4.2	5.6	8.4	9.7	9.7	15.3	18.1	20.9
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°	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4	2836.4
2.5°	2864.3	2846.2	2857.3	2861.5	2861.5	2857.3	2839.2	2833.6	2825.3	2812.7	2812.7
5°	2928.3	2914.4	2917.2	2910.2	2893.5	2872.6	2839.2	2822.5	2808.6	2793.2	2791.9
7.5°	3038.3	3020.2	3017.4	2991.0	2946.4	2901.9	2851.7	2821.1	2800.2	2780.7	2779.3
10°	3181.7	3165.0	3144.1	3091.2	3025.8	2960.3	2892.1	2850.3	2819.7	2791.9	2790.5
12.5°	3341.9	3322.4	3283.4	3205.4	3123.3	3059.2	2981.2	2917.2	2871.2	2833.6	2826.7
15°	3515.9	3488.1	3421.2	3329.3	3248.6	3180.3	3096.8	3004.9	2935.3	2875.4	2868.4
17.5°	3649.6	3613.4	3541.0	3454.7	3387.8	3319.6	3211.0	3095.4	2995.2	2920.0	2908.8
20°	3741.5	3712.3	3630.1	3566.1	3527.1	3467.2	3340.5	3209.6	3096.8	3002.1	2996.5
22.5°	3826.4	3791.6	3710.9	3673.3	3673.3	3632.9	3511.7	3357.2	3224.9	3114.9	3101.0
25°	3922.5	3884.9	3823.7	3819.5	3839.0	3820.9	3674.7	3509.0	3354.4	3230.5	3208.2
27.5°	4056.2	4014.4	3978.2	4003.3	4031.1	4011.6	3848.7	3656.6	3493.6	3368.3	3348.8
30°	4269.2	4217.7	4184.3	4214.9	4269.2	4212.1	4035.3	3832.0	3667.7	3529.9	3520.1
32.5°	4517.1	4458.6	4423.8	4472.5	4521.3	4432.2	4256.7	4061.8	3889.1	3744.3	3727.6
35°	4815.1	4741.3	4689.8	4755.2	4805.3	4717.6	4543.6	4358.4	4166.2	4015.8	3993.5
37.5°	5079.6	4990.5	4955.7	5047.6	5114.5	5057.4	4868.0	4693.9	4483.7	4319.4	4309.6
40°	5271.8	5184.1	5159.0	5310.8	5427.8	5413.8	5244.0	5044.8	4847.1	4657.7	4639.6
42.5°	5355.3	5294.1	5299.7	5504.3	5685.4	5774.5	5622.7	5409.7	5218.9	5022.6	5010.0
45°	5373.4	5335.9	5380.4	5636.6	5874.7	6057.1	5927.6	5749.4	5533.6	5344.2	5338.6
47.5°	5392.9	5372.1	5440.3	5711.8	5994.5	6206.1	6133.7	5949.9	5731.3	5546.1	5532.2
50°	5438.9	5430.5	5507.1	5764.7	6051.6	6246.5	6164.4	5981.9	5757.8	5575.4	5541.9
52.5°	5452.8	5438.9	5548.9	5846.9	6146.3	6245.1	6068.3	5830.2	5604.6	5401.3	5366.5
55°	5496.0	5470.9	5546.1	5877.5	6277.1	6325.9	6062.7	5706.2	5391.6	5114.5	5032.3
57.5°	5507.1	5479.3	5528.0	5827.4	6135.1	6092.0	5328.9	4604.8	4011.6	3703.9	3738.7
60°	5447.2	5455.6	5372.1	5338.6	4920.9	4344.4	3262.5	2608.1	2048.3	1811.6	1863.1
62.5°	4146.7	4181.5	3896.1	3387.8	2605.3	2065.0	1366.0	1061.0	898.1	856.4	863.3
65°	2092.8	2140.2	1843.6	1524.7	1133.5	916.2	792.3	767.2	758.9	749.1	749.1
67.5°	828.5	842.4	831.3	778.4	724.1	704.6	699.0	696.2	686.5	680.9	682.3
70°	665.6	676.7	660.0	626.6	604.3	602.9	600.1	594.6	587.6	587.6	591.8
72.5°	543.1	554.2	530.5	509.6	492.9	480.4	473.4	469.3	459.5	459.5	463.7
75°	399.6	406.6	387.1	384.3	366.2	353.7	342.5	337.0	324.4	318.9	323.0
77.5°	266.0	264.6	254.8	254.8	247.9	232.5	220.0	207.5	190.8	179.6	182.4
80°	172.7	172.7	168.5	168.5	161.5	149.0	133.7	121.1	111.4	103.0	103.0
82.5°	110.0	108.6	107.2	105.8	103.0	90.5	79.4	71.0	64.1	58.5	59.9
85°	61.3	61.3	58.5	58.5	52.9	46.0	40.4	34.8	30.6	29.2	29.2
87.5°	20.9	20.9	19.5	19.5	16.7	12.5	9.7	8.4	7.0	5.6	7.0
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)