

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: P639237

Luminaire Tested: GWS-SA5B-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639237  
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-SA5B-740-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15652.4 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 115.7  
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

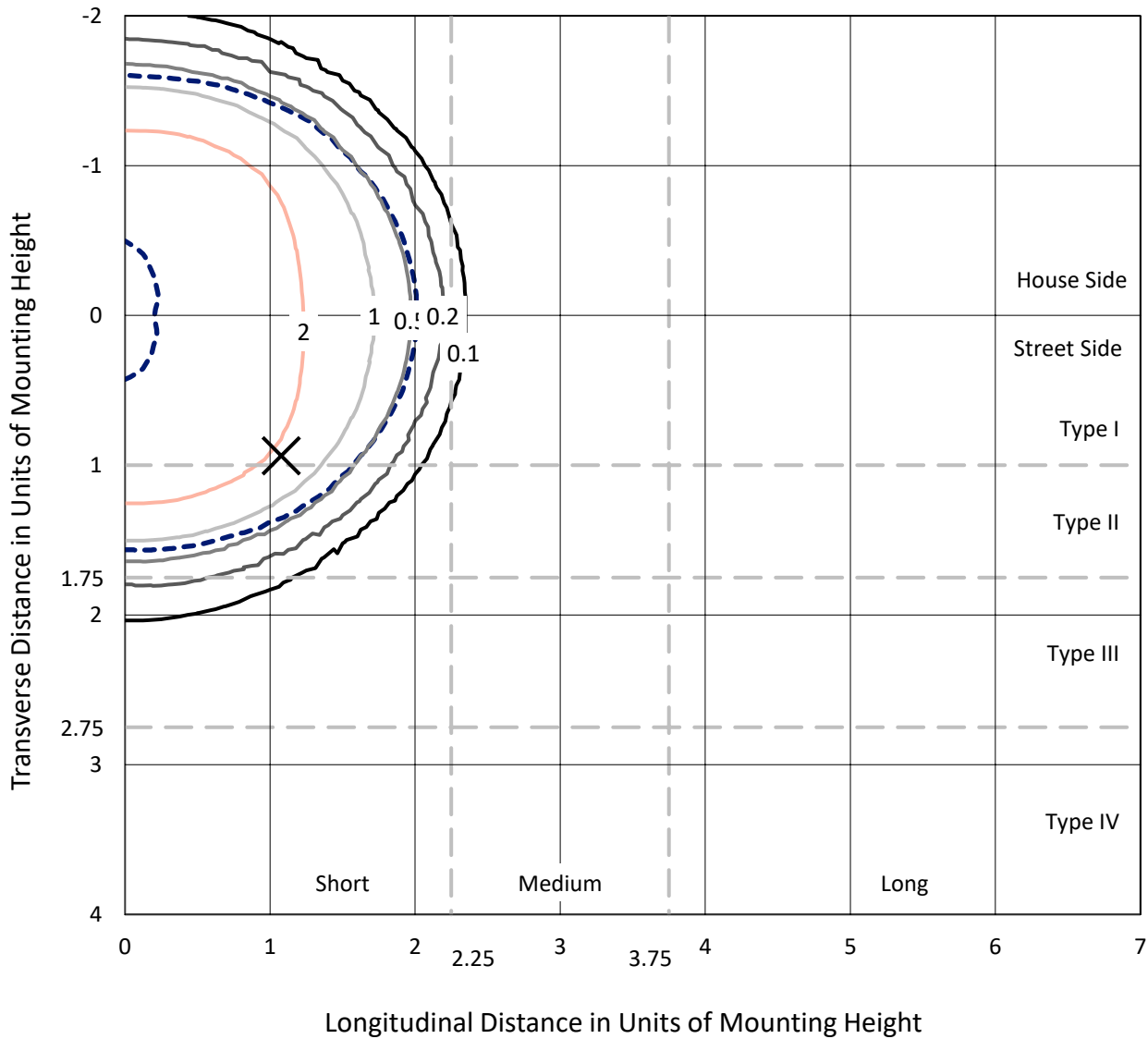


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### Iso-Footcandle Lines of Horizontal Illumination

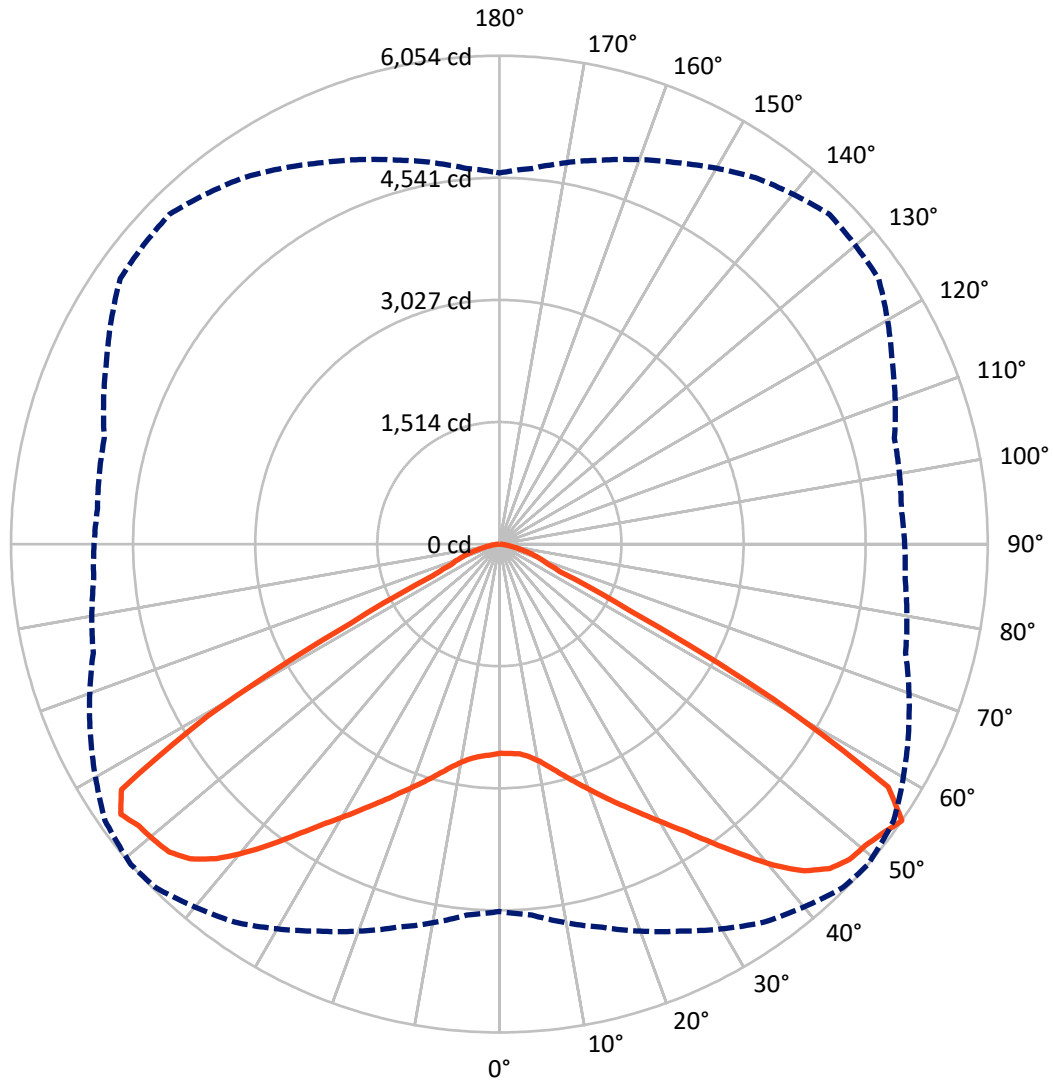
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	7749.4	0.0	7749.4
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	7903.0	0.0	7903.0
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	15652.4	0.0	15652.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.9	1.6
10°-20°	834.3	5.3
20°-30°	1589.1	10.2
30°-40°	2693.9	17.2
40°-50°	4054.1	25.9
50°-60°	4437.6	28.4
60°-70°	1403.2	9.0
70°-80°	336.8	2.2
80°-90°	50.5	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°	15652.4	100.0
0°-180°	15652.4	100.0

**Coefficient of Utilization**



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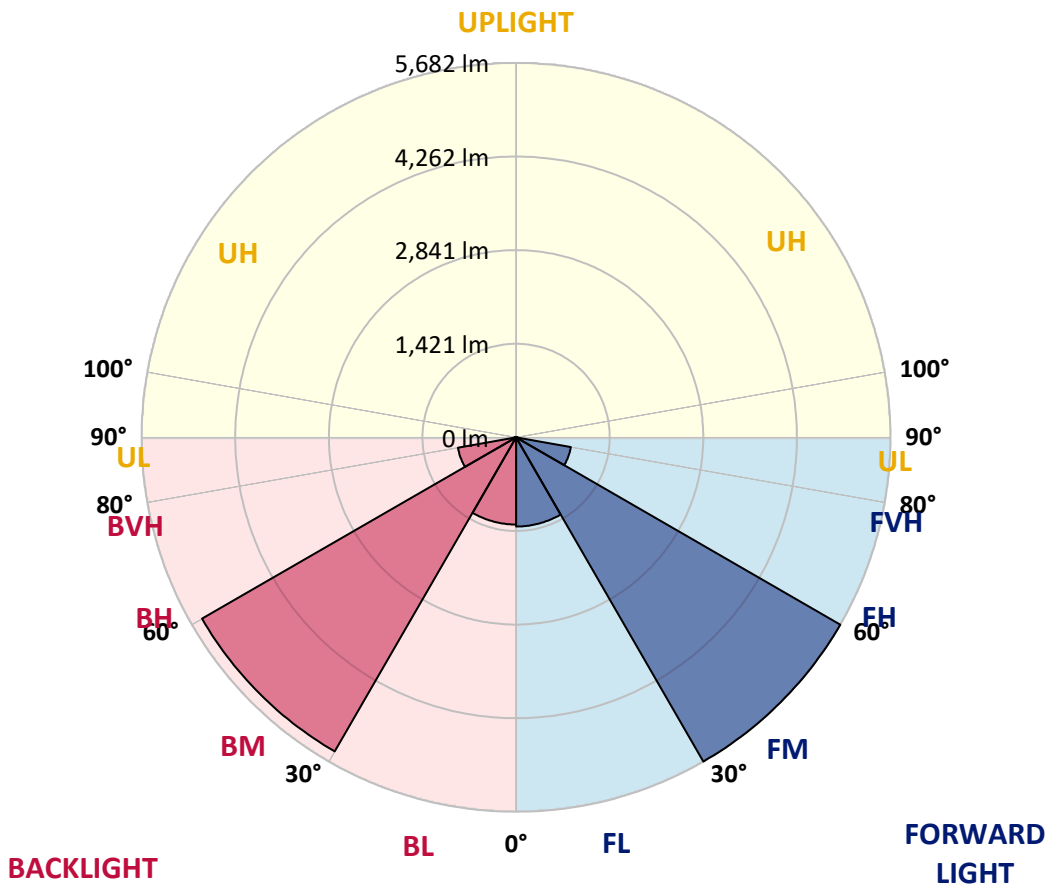
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.3	8.6			
FM (30°-60°)	5682.3	36.3			
FH (60°-80°)	844.0	5.4			G1/1800
FVH (80°-90°)	23.4	0.1			G1/100
BL (0°-30°)	1323.1	8.5	B3/2500		
BM (30°-60°)	5503.3	35.2	B4/8500		
BH (60°-80°)	895.9	5.7	B2/1000		G1/1800
BVH (80°-90°)	27.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**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°	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9
2.5°	2554.7	2557.3	2562.4	2571.3	2580.2	2592.9	2598.0	2604.4	2603.1	2610.7	2610.7
5°	2542.0	2545.8	2553.5	2566.2	2581.5	2605.6	2612.0	2627.3	2642.6	2661.7	2668.0
7.5°	2557.3	2562.4	2571.3	2591.6	2614.6	2646.4	2659.1	2684.6	2713.8	2748.2	2762.2
10°	2586.6	2592.9	2608.2	2641.3	2678.2	2726.6	2738.0	2769.8	2816.9	2864.0	2892.0
12.5°	2619.6	2629.8	2657.8	2710.0	2764.8	2828.4	2846.2	2885.7	2936.6	2997.7	3035.9
15°	2657.8	2666.7	2710.0	2783.9	2869.1	2953.1	2973.5	3011.7	3069.0	3128.8	3182.3
17.5°	2738.0	2753.3	2804.2	2889.5	2988.8	3088.1	3111.0	3154.3	3200.1	3247.2	3298.1
20°	2847.5	2860.2	2925.1	3030.8	3147.9	3238.3	3261.2	3299.4	3321.0	3345.2	3388.5
22.5°	2957.0	2974.8	3048.6	3173.4	3310.8	3408.8	3426.7	3462.3	3447.0	3439.4	3467.4
25°	3093.2	3117.4	3189.9	3326.1	3466.1	3587.1	3601.1	3631.6	3606.2	3566.7	3565.4
27.5°	3262.5	3284.1	3359.2	3499.2	3638.0	3764.0	3790.7	3831.5	3775.4	3727.1	3692.7
30°	3463.6	3477.6	3560.3	3709.3	3851.8	3971.5	4005.8	4046.6	4004.6	3924.4	3890.0
32.5°	3697.8	3716.9	3812.4	3968.9	4096.2	4215.9	4250.2	4301.2	4255.3	4165.0	4121.7
35°	3979.1	3998.2	4098.8	4269.3	4399.2	4522.6	4546.8	4588.8	4531.6	4427.2	4392.8
37.5°	4284.6	4308.8	4436.1	4597.7	4733.9	4877.8	4879.1	4891.8	4810.3	4680.5	4642.3
40°	4628.3	4660.1	4787.4	4955.4	5119.6	5236.7	5235.5	5199.8	5062.4	4861.2	4802.7
42.5°	4968.2	4993.6	5122.2	5295.3	5459.5	5570.2	5537.2	5450.6	5252.0	4978.3	4900.7
45°	5213.8	5232.9	5367.9	5562.6	5729.4	5798.1	5738.3	5633.9	5365.3	5052.2	4937.6
47.5°	5329.7	5355.1	5491.3	5684.8	5873.2	5912.7	5841.4	5743.4	5431.5	5120.9	4966.9
50°	5267.3	5300.4	5454.4	5633.9	5846.5	5927.9	5877.0	5779.0	5501.5	5188.4	5019.1
52.5°	5105.6	5137.5	5332.2	5549.9	5790.5	5952.1	5950.8	5870.7	5581.7	5207.5	5021.6
55°	4553.2	4615.6	4918.5	5294.0	5721.7	6023.4	6054.0	5968.7	5594.4	5212.6	5048.4
57.5°	2963.3	3072.8	3360.5	3849.3	4707.2	5478.6	5684.8	5705.2	5502.8	5190.9	5053.4
60°	1237.3	1325.1	1552.9	1877.5	2586.6	3504.3	3904.0	4305.0	4788.7	4964.3	5006.3
62.5°	768.8	776.5	799.4	873.2	1110.0	1558.0	1815.2	2190.7	2909.9	3522.1	3804.7
65°	693.7	697.6	702.6	697.6	709.0	763.7	832.5	963.6	1256.4	1560.6	1922.1
67.5°	611.0	616.1	619.9	616.1	619.9	622.5	630.1	641.5	695.0	738.3	771.4
70°	493.9	501.5	507.9	505.3	520.6	520.6	528.3	537.2	563.9	595.7	618.6
72.5°	376.8	370.4	378.1	380.6	394.6	402.2	413.7	423.9	454.4	473.5	502.8
75°	244.4	238.0	249.5	255.9	274.9	285.1	295.3	305.5	327.1	339.9	367.9
77.5°	132.4	131.1	142.6	151.5	171.8	184.6	192.2	199.8	217.7	221.5	239.3
80°	76.4	76.4	84.0	90.4	103.1	117.1	124.7	131.1	143.8	147.7	155.3
82.5°	42.0	42.0	45.8	49.6	59.8	67.5	73.8	78.9	90.4	94.2	98.0
85°	20.4	19.1	21.6	24.2	28.0	31.8	35.6	38.2	47.1	49.6	54.7
87.5°	2.5	2.5	2.5	3.8	5.1	7.6	8.9	8.9	14.0	16.5	19.1
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°	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9
2.5°	2618.4	2601.8	2612.0	2615.8	2615.8	2612.0	2595.5	2590.4	2582.7	2571.3	2571.3
5°	2676.9	2664.2	2666.7	2660.4	2645.1	2626.0	2595.5	2580.2	2567.5	2553.5	2552.2
7.5°	2777.5	2760.9	2758.4	2734.2	2693.5	2652.7	2606.9	2578.9	2559.8	2542.0	2540.7
10°	2908.6	2893.3	2874.2	2825.9	2766.0	2706.2	2643.8	2605.6	2577.6	2552.2	2550.9
12.5°	3055.0	3037.2	3001.5	2930.2	2855.1	2796.6	2725.3	2666.7	2624.7	2590.4	2584.0
15°	3214.1	3188.6	3127.5	3043.5	2969.7	2907.3	2830.9	2746.9	2683.3	2628.6	2622.2
17.5°	3336.3	3303.2	3237.0	3158.1	3097.0	3034.6	2935.3	2829.7	2738.0	2669.3	2659.1
20°	3420.3	3393.6	3318.5	3259.9	3224.3	3169.5	3053.7	2934.1	2830.9	2744.4	2739.3
22.5°	3498.0	3466.1	3392.3	3357.9	3357.9	3321.0	3210.3	3069.0	2948.1	2847.5	2834.8
25°	3585.8	3551.4	3495.4	3491.6	3509.4	3492.9	3359.2	3207.7	3066.4	2953.1	2932.8
27.5°	3708.0	3669.8	3636.7	3659.6	3685.1	3667.2	3518.3	3342.7	3193.7	3079.2	3061.3
30°	3902.7	3855.6	3825.1	3853.1	3902.7	3850.5	3688.9	3503.0	3352.8	3226.8	3217.9
32.5°	4129.3	4075.9	4044.0	4088.6	4133.1	4051.7	3891.3	3713.1	3555.2	3422.9	3407.6
35°	4401.7	4334.3	4287.2	4347.0	4392.8	4312.6	4153.5	3984.2	3808.5	3671.1	3650.7
37.5°	4643.6	4562.1	4530.3	4614.3	4675.4	4623.2	4450.1	4291.0	4098.8	3948.6	3939.7
40°	4819.2	4739.0	4716.1	4854.9	4961.8	4949.1	4793.8	4611.7	4431.0	4257.9	4241.3
42.5°	4895.6	4839.6	4844.7	5031.8	5197.3	5278.8	5140.0	4945.3	4770.9	4591.4	4579.9
45°	4912.2	4877.8	4918.5	5152.7	5370.4	5537.2	5418.8	5255.8	5058.5	4885.4	4880.3
47.5°	4930.0	4910.9	4973.3	5221.5	5479.9	5673.4	5607.2	5439.1	5239.3	5070.0	5057.3
50°	4972.0	4964.3	5034.4	5269.8	5532.1	5710.3	5635.2	5468.4	5263.5	5096.7	5066.2
52.5°	4984.7	4972.0	5072.5	5344.9	5618.6	5709.0	5547.3	5329.7	5123.5	4937.6	4905.8
55°	5024.2	5001.3	5070.0	5372.9	5738.3	5782.8	5542.2	5216.4	4928.7	4675.4	4600.3
57.5°	5034.4	5008.9	5053.4	5327.1	5608.4	5569.0	4871.4	4209.5	3667.2	3385.9	3417.8
60°	4979.6	4987.3	4910.9	4880.3	4498.5	3971.5	2982.4	2384.2	1872.4	1656.1	1703.2
62.5°	3790.7	3822.5	3561.6	3097.0	2381.6	1887.7	1248.7	970.0	821.0	782.8	789.2
65°	1913.2	1956.5	1685.3	1393.8	1036.1	837.6	724.3	701.4	693.7	684.8	684.8
67.5°	757.4	770.1	759.9	711.6	661.9	644.1	639.0	636.5	627.5	622.5	623.7
70°	608.5	618.6	603.4	572.8	552.4	551.2	548.6	543.5	537.2	537.2	541.0
72.5°	496.4	506.6	485.0	465.9	450.6	439.2	432.8	429.0	420.1	420.1	423.9
75°	365.3	371.7	353.9	351.3	334.8	323.3	313.1	308.0	296.6	291.5	295.3
77.5°	243.1	241.9	232.9	232.9	226.6	212.6	201.1	189.7	174.4	164.2	166.8
80°	157.8	157.8	154.0	154.0	147.7	136.2	122.2	110.7	101.8	94.2	94.2
82.5°	100.6	99.3	98.0	96.7	94.2	82.7	72.6	64.9	58.6	53.5	54.7
85°	56.0	56.0	53.5	53.5	48.4	42.0	36.9	31.8	28.0	26.7	26.7
87.5°	19.1	19.1	17.8	17.8	15.3	11.5	8.9	7.6	6.4	5.1	6.4
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)