

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: P633902

Luminaire Tested: GWS-SA2F-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633902  
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-SA2F-760-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

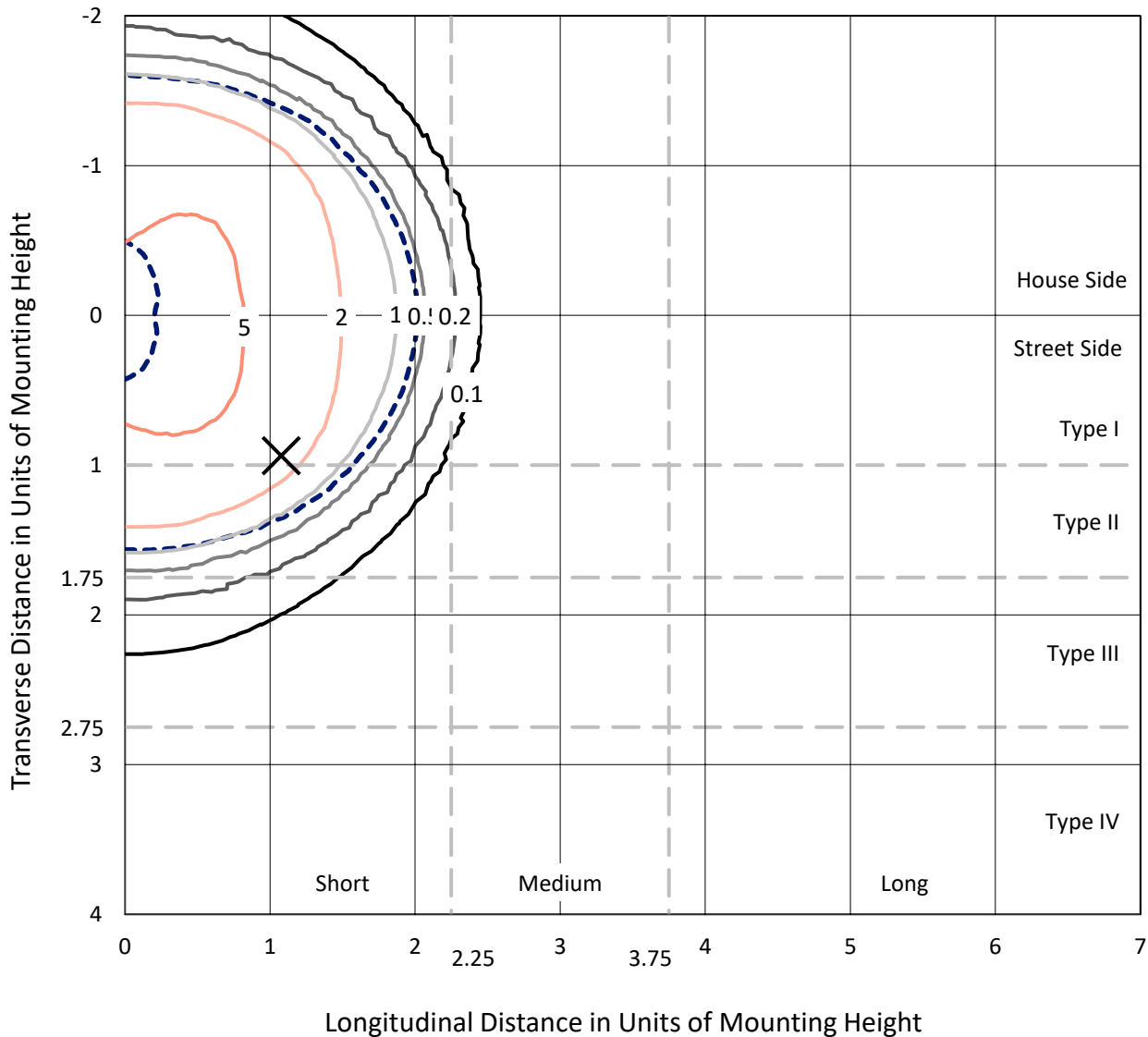
Lumens per Lamp: N/A  
Luminaire Lumens: 14428 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

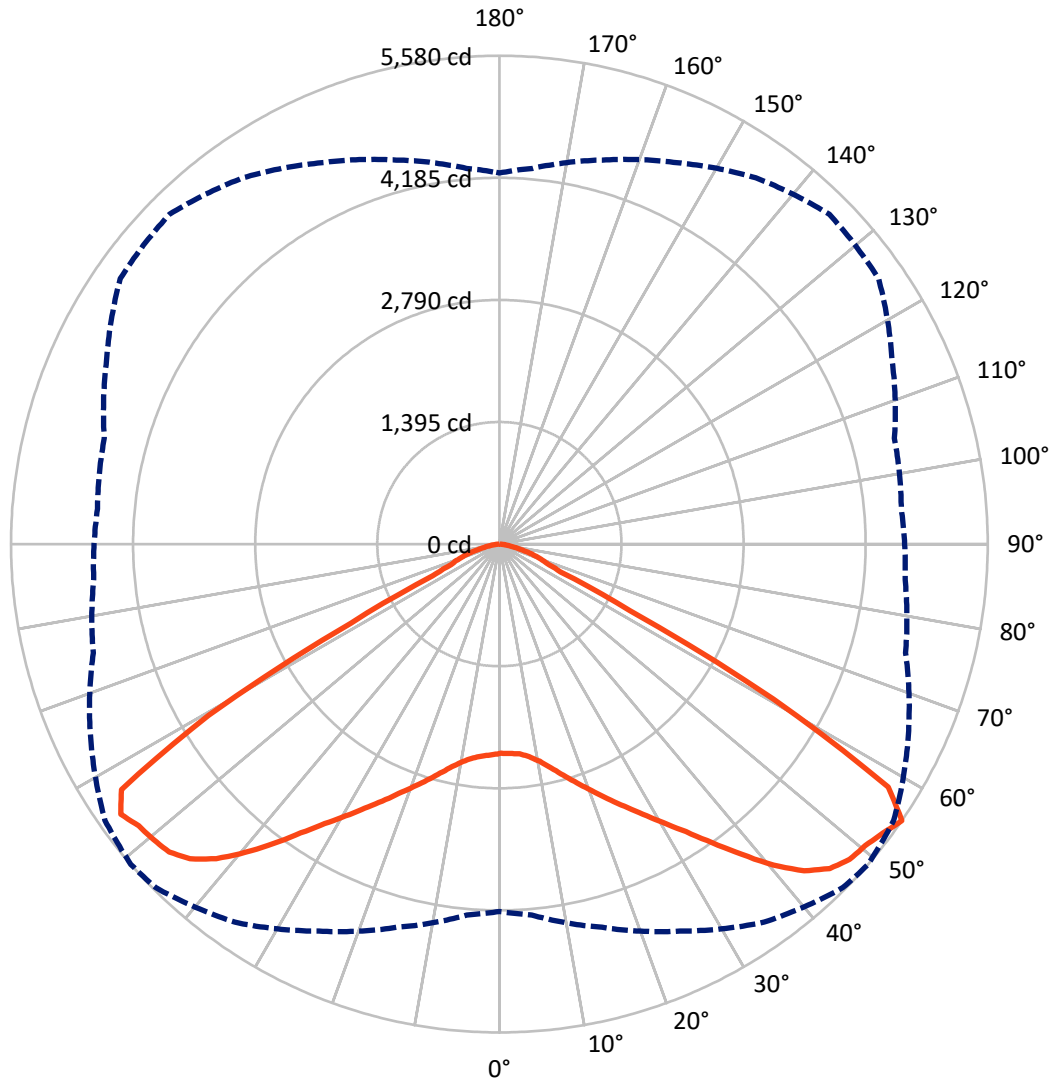
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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	7143.2	0.0	7143.2
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	7284.8	0.0	7284.8
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	14428.0	0.0	14428.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.1	1.6
10°-20°	769.0	5.3
20°-30°	1464.8	10.2
30°-40°	2483.1	17.2
40°-50°	3737.0	25.9
50°-60°	4090.5	28.4
60°-70°	1293.4	9.0
70°-80°	310.4	2.2
80°-90°	46.6	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°	14428.0	100.0
0°-180°	14428.0	100.0

**Coefficient of Utilization**



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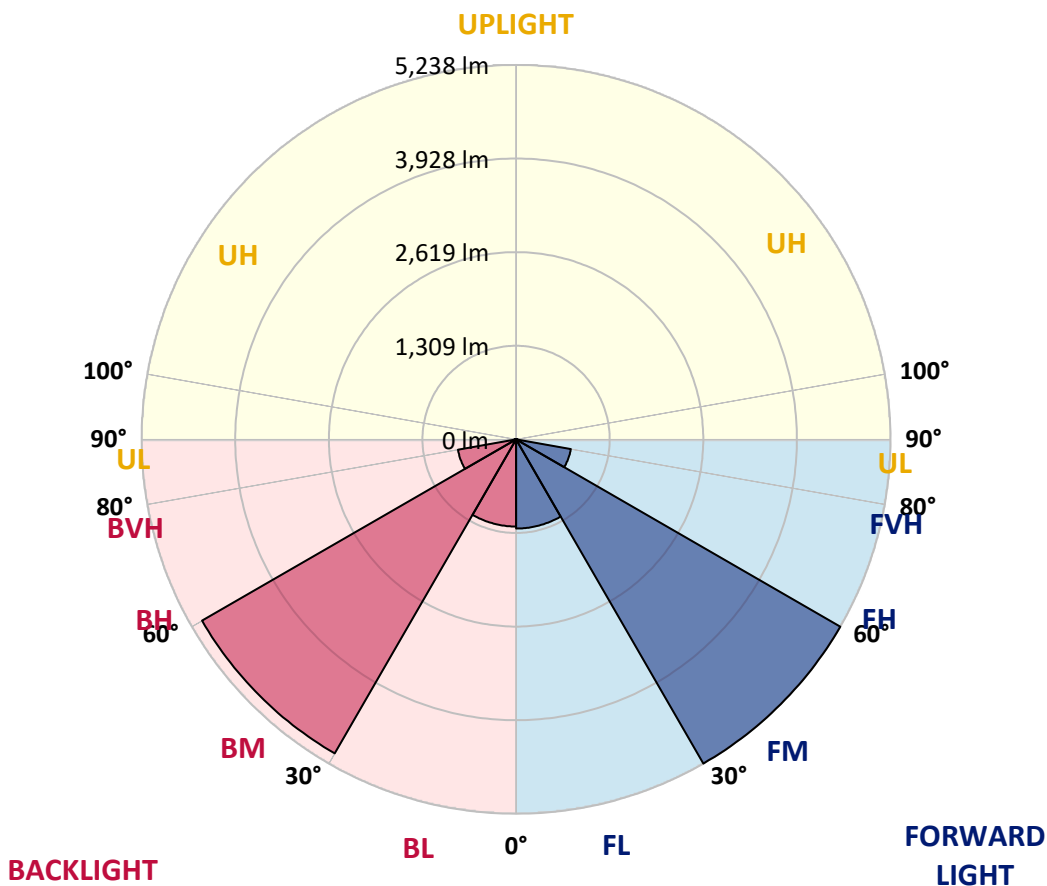
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.4	8.6			
FM (30°-60°)	5237.8	36.3			
FH (60°-80°)	778.0	5.4			G1/1800
FVH (80°-90°)	21.6	0.1			G1/100
BL (0°-30°)	1219.6	8.5	B3/2500		
BM (30°-60°)	5072.8	35.2	B4/8500		
BH (60°-80°)	825.8	5.7	B2/1000		G1/1800
BVH (80°-90°)	25.0	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°	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1
2.5°	2354.9	2357.2	2361.9	2370.1	2378.4	2390.1	2394.8	2400.6	2399.5	2406.5	2406.5
5°	2343.2	2346.7	2353.7	2365.4	2379.5	2401.8	2407.7	2421.8	2435.8	2453.4	2459.3
7.5°	2357.2	2361.9	2370.1	2388.9	2410.0	2439.4	2451.1	2474.6	2501.6	2533.2	2546.1
10°	2384.2	2390.1	2404.2	2434.7	2468.7	2513.3	2523.8	2553.2	2596.6	2640.0	2665.8
12.5°	2414.7	2424.1	2449.9	2498.0	2548.5	2607.2	2623.6	2660.0	2706.9	2763.2	2798.4
15°	2449.9	2458.1	2498.0	2566.1	2644.7	2722.1	2740.9	2776.1	2828.9	2884.1	2933.3
17.5°	2523.8	2537.9	2584.9	2663.5	2755.0	2846.5	2867.6	2907.5	2949.8	2993.2	3040.1
20°	2624.8	2636.5	2696.3	2793.7	2901.7	2985.0	3006.1	3041.3	3061.2	3083.5	3123.4
22.5°	2725.7	2742.1	2810.1	2925.1	3051.8	3142.2	3158.6	3191.5	3177.4	3170.4	3196.2
25°	2851.2	2873.5	2940.4	3065.9	3195.0	3306.5	3319.4	3347.5	3324.1	3287.7	3286.5
27.5°	3007.3	3027.2	3096.4	3225.5	3353.4	3469.6	3494.2	3531.7	3480.1	3435.5	3403.8
30°	3192.6	3205.6	3281.8	3419.1	3550.5	3660.8	3692.5	3730.0	3691.3	3617.4	3585.7
32.5°	3408.5	3426.1	3514.1	3658.5	3775.8	3886.1	3917.8	3964.7	3922.5	3839.2	3799.3
35°	3667.8	3685.4	3778.1	3935.4	4055.0	4168.9	4191.2	4229.9	4177.1	4080.9	4049.2
37.5°	3949.4	3971.7	4089.1	4238.1	4363.6	4496.2	4497.4	4509.1	4434.0	4314.4	4279.2
40°	4266.3	4295.6	4412.9	4567.8	4719.2	4827.1	4825.9	4793.1	4666.4	4481.0	4427.0
42.5°	4579.5	4603.0	4721.5	4881.1	5032.4	5134.5	5104.0	5024.2	4841.2	4588.9	4517.3
45°	4806.0	4823.6	4948.0	5127.5	5281.2	5344.5	5289.4	5193.2	4945.6	4657.0	4551.4
47.5°	4912.8	4936.2	5061.8	5240.1	5413.8	5450.1	5384.4	5294.1	5006.6	4720.3	4578.4
50°	4855.3	4885.8	5027.7	5193.2	5389.1	5464.2	5417.3	5326.9	5071.2	4782.5	4626.5
52.5°	4706.3	4735.6	4915.1	5115.7	5337.5	5486.5	5485.3	5411.4	5145.1	4800.1	4628.8
55°	4197.0	4254.5	4533.8	4879.9	5274.1	5552.2	5580.4	5501.8	5156.8	4804.8	4653.5
57.5°	2731.5	2832.4	3097.6	3548.2	4339.0	5050.0	5240.1	5258.9	5072.3	4784.9	4658.1
60°	1140.5	1221.4	1431.5	1730.7	2384.2	3230.2	3598.6	3968.2	4414.1	4576.0	4614.7
62.5°	708.7	715.7	736.9	804.9	1023.1	1436.2	1673.2	2019.3	2682.2	3246.6	3507.1
65°	639.5	643.0	647.7	643.0	653.5	704.0	767.4	888.2	1158.1	1438.5	1771.7
67.5°	563.2	567.9	571.4	567.9	571.4	573.8	580.8	591.4	640.6	680.5	711.0
70°	455.3	462.3	468.2	465.8	479.9	479.9	486.9	495.1	519.8	549.1	570.2
72.5°	347.3	341.4	348.5	350.8	363.7	370.8	381.3	390.7	418.9	436.5	463.5
75°	225.3	219.4	230.0	235.8	253.4	262.8	272.2	281.6	301.5	313.3	339.1
77.5°	122.0	120.9	131.4	139.6	158.4	170.1	177.2	184.2	200.6	204.2	220.6
80°	70.4	70.4	77.4	83.3	95.0	107.9	115.0	120.9	132.6	136.1	143.1
82.5°	38.7	38.7	42.2	45.8	55.1	62.2	68.1	72.7	83.3	86.8	90.3
85°	18.8	17.6	19.9	22.3	25.8	29.3	32.9	35.2	43.4	45.8	50.5
87.5°	2.3	2.3	2.3	3.5	4.7	7.0	8.2	8.2	12.9	15.3	17.6
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°	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1	2390.1
2.5°	2413.6	2398.3	2407.7	2411.2	2411.2	2407.7	2392.4	2387.7	2380.7	2370.1	2370.1
5°	2467.5	2455.8	2458.1	2452.3	2438.2	2420.6	2392.4	2378.4	2366.6	2353.7	2352.5
7.5°	2560.2	2545.0	2542.6	2520.3	2482.8	2445.2	2403.0	2377.2	2359.6	2343.2	2342.0
10°	2681.1	2667.0	2649.4	2604.8	2549.7	2494.5	2437.0	2401.8	2376.0	2352.5	2351.4
12.5°	2816.0	2799.6	2766.7	2701.0	2631.8	2577.8	2512.1	2458.1	2419.4	2387.7	2381.9
15°	2962.7	2939.2	2882.9	2805.4	2737.4	2679.9	2609.5	2532.1	2473.4	2422.9	2417.1
17.5°	3075.3	3044.8	2983.8	2911.0	2854.7	2797.2	2705.7	2608.3	2523.8	2460.5	2451.1
20°	3152.8	3128.1	3058.9	3004.9	2972.1	2921.6	2814.8	2704.5	2609.5	2529.7	2525.0
22.5°	3224.3	3195.0	3126.9	3095.3	3095.3	3061.2	2959.2	2828.9	2717.4	2624.8	2613.0
25°	3305.3	3273.6	3222.0	3218.5	3234.9	3219.6	3096.4	2956.8	2826.6	2722.1	2703.4
27.5°	3417.9	3382.7	3352.2	3373.3	3396.8	3380.4	3243.1	3081.2	2943.9	2838.3	2821.9
30°	3597.4	3554.0	3525.9	3551.7	3597.4	3549.3	3400.3	3229.0	3090.6	2974.4	2966.2
32.5°	3806.3	3757.0	3727.7	3768.8	3809.8	3734.7	3586.9	3422.6	3277.1	3155.1	3141.0
35°	4057.4	3995.2	3951.8	4006.9	4049.2	3975.3	3828.6	3672.5	3510.6	3383.9	3365.1
37.5°	4280.3	4205.2	4175.9	4253.3	4309.7	4261.6	4102.0	3955.3	3778.1	3639.7	3631.5
40°	4442.3	4368.3	4347.2	4475.1	4573.7	4561.9	4418.8	4251.0	4084.4	3924.8	3909.6
42.5°	4512.7	4461.0	4465.7	4638.2	4790.7	4865.8	4737.9	4558.4	4397.7	4232.2	4221.7
45°	4527.9	4496.2	4533.8	4749.7	4950.3	5104.0	4994.9	4844.7	4662.8	4503.3	4498.6
47.5°	4544.3	4526.7	4584.2	4813.0	5051.2	5229.6	5168.5	5013.7	4829.5	4673.4	4661.7
50°	4583.1	4576.0	4640.5	4857.6	5099.3	5263.6	5194.4	5040.7	4851.7	4698.0	4669.9
52.5°	4594.8	4583.1	4675.7	4926.8	5179.1	5262.4	5113.4	4912.8	4722.7	4551.4	4522.0
55°	4631.2	4610.0	4673.4	4952.7	5289.4	5330.5	5108.7	4808.3	4543.2	4309.7	4240.4
57.5°	4640.5	4617.1	4658.1	4910.4	5169.7	5133.3	4490.4	3880.2	3380.4	3121.1	3150.4
60°	4590.1	4597.1	4526.7	4498.6	4146.6	3660.8	2749.1	2197.7	1726.0	1526.5	1569.9
62.5°	3494.2	3523.5	3283.0	2854.7	2195.3	1740.1	1151.0	894.1	756.8	721.6	727.5
65°	1763.5	1803.4	1553.5	1284.8	955.1	772.1	667.6	646.5	639.5	631.3	631.3
67.5°	698.1	709.9	700.5	655.9	610.1	593.7	589.0	586.7	578.5	573.8	574.9
70°	560.9	570.2	556.2	528.0	509.2	508.1	505.7	501.0	495.1	495.1	498.7
72.5°	457.6	467.0	447.0	429.4	415.4	404.8	398.9	395.4	387.2	387.2	390.7
75°	336.7	342.6	326.2	323.8	308.6	298.0	288.6	283.9	273.4	268.7	272.2
77.5°	224.1	222.9	214.7	214.7	208.9	195.9	185.4	174.8	160.7	151.4	153.7
80°	145.5	145.5	142.0	142.0	136.1	125.5	112.6	102.1	93.9	86.8	86.8
82.5°	92.7	91.5	90.3	89.2	86.8	76.3	66.9	59.8	54.0	49.3	50.5
85°	51.6	51.6	49.3	49.3	44.6	38.7	34.0	29.3	25.8	24.6	24.6
87.5°	17.6	17.6	16.4	16.4	14.1	10.6	8.2	7.0	5.9	4.7	5.9
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)