

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: P633737

Luminaire Tested: GWS-SA2F-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633737  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14104.8 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - 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

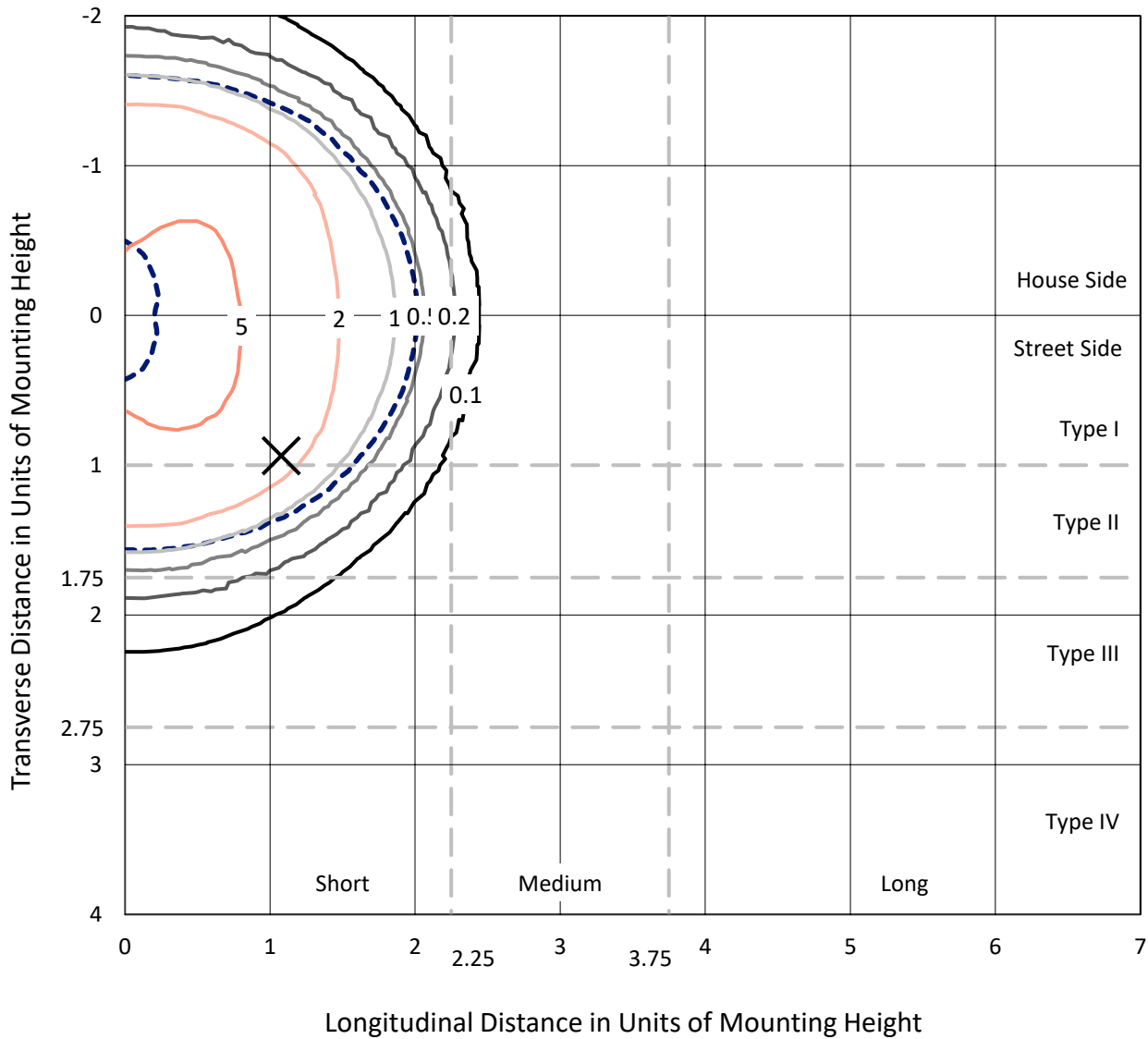


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### Iso-Footcandle Lines of Horizontal Illumination

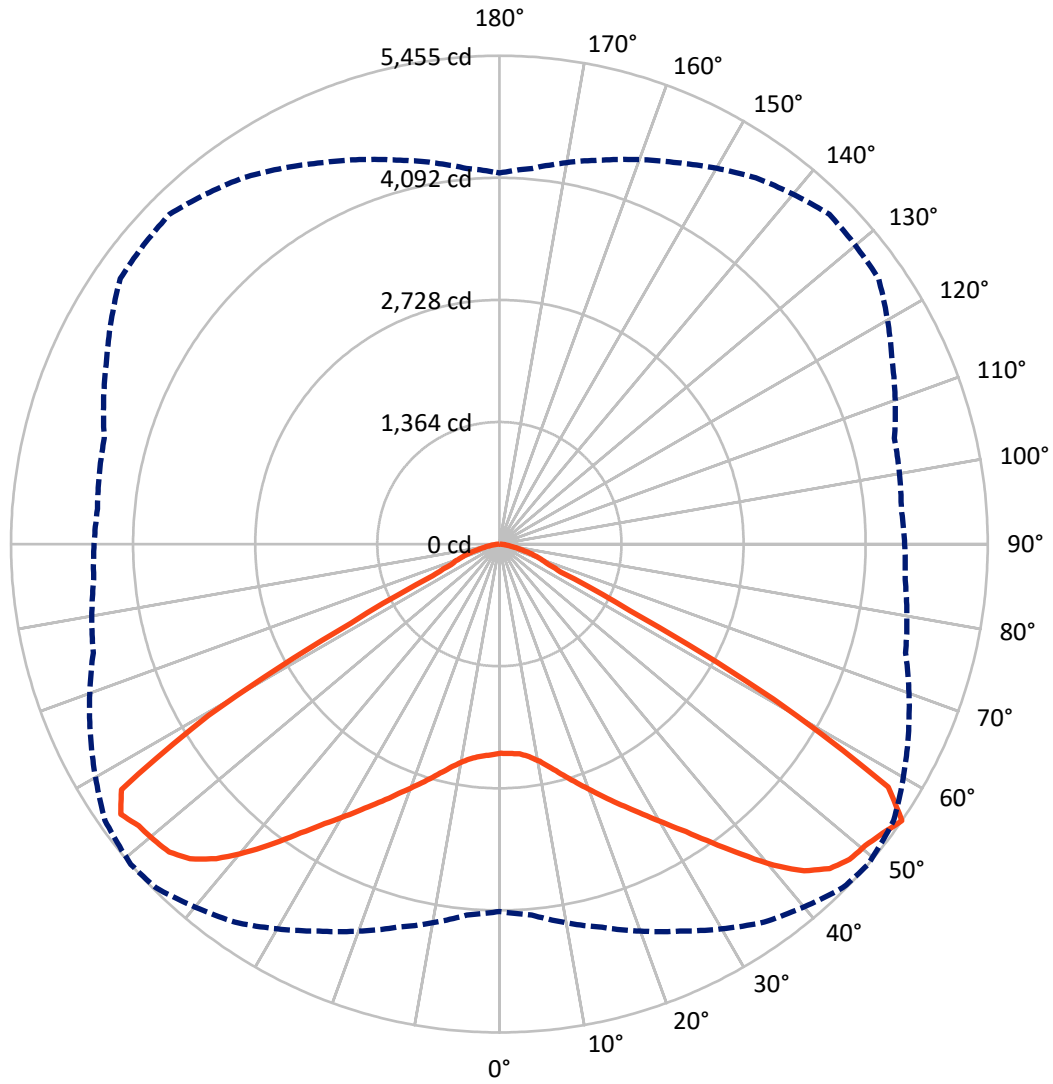
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	6983.2	0.0	6983.2
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	7121.6	0.0	7121.6
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	14104.8	0.0	14104.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.9	1.6
10°-20°	751.8	5.3
20°-30°	1432.0	10.2
30°-40°	2427.5	17.2
40°-50°	3653.2	25.9
50°-60°	3998.8	28.4
60°-70°	1264.4	9.0
70°-80°	303.5	2.2
80°-90°	45.5	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°	14104.8	100.0
0°-180°	14104.8	100.0

**Coefficient of Utilization**



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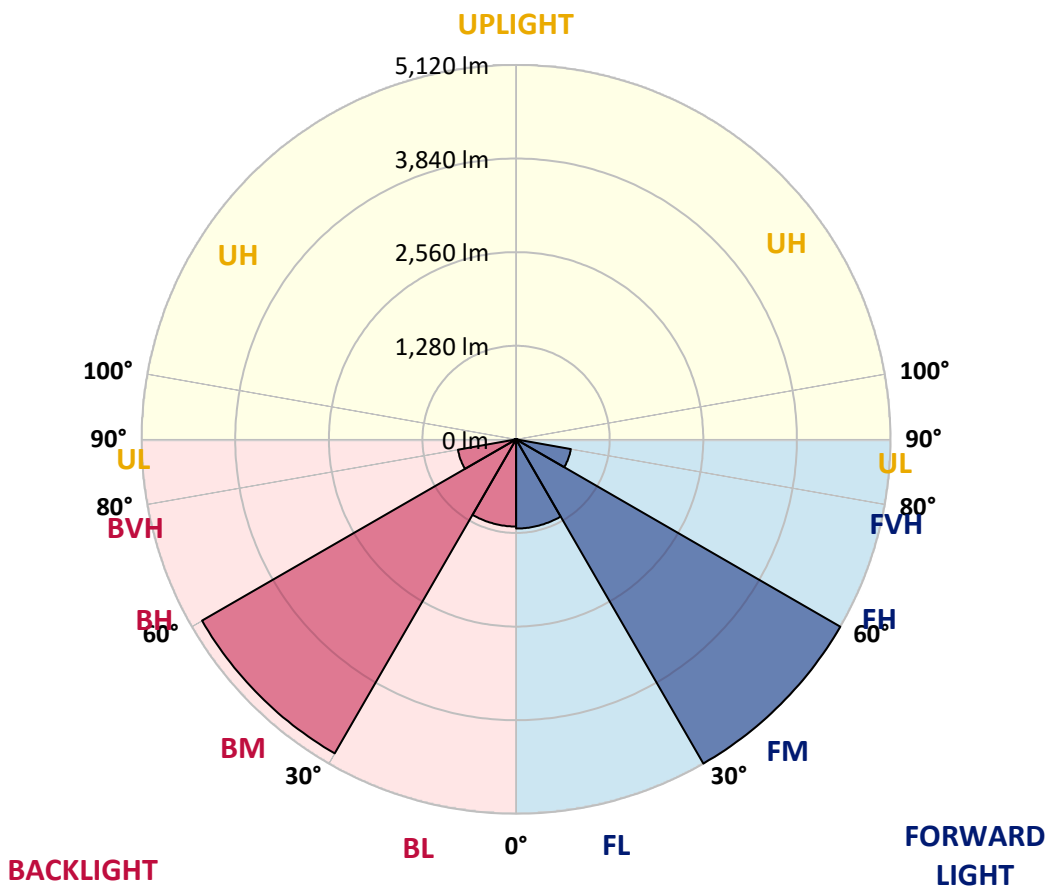
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1219.5	8.6			
FM (30°-60°)	5120.4	36.3			
FH (60°-80°)	760.6	5.4			G1/1800
FVH (80°-90°)	21.1	0.1			G1/100
BL (0°-30°)	1192.2	8.5	B3/2500		
BM (30°-60°)	4959.2	35.2	B3/5000		
BH (60°-80°)	807.3	5.7	B2/1000		G1/1800
BVH (80°-90°)	24.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5
2.5°	2302.1	2304.4	2309.0	2317.0	2325.1	2336.5	2341.1	2346.9	2345.7	2352.6	2352.6
5°	2290.7	2294.1	2301.0	2312.5	2326.2	2348.0	2353.8	2367.5	2381.3	2398.5	2404.2
7.5°	2304.4	2309.0	2317.0	2335.4	2356.0	2384.7	2396.2	2419.1	2445.5	2476.5	2489.1
10°	2330.8	2336.5	2350.3	2380.1	2413.4	2457.0	2467.3	2496.0	2538.4	2580.9	2606.1
12.5°	2360.6	2369.8	2395.0	2442.1	2491.4	2548.8	2564.8	2600.4	2646.2	2701.3	2735.7
15°	2395.0	2403.1	2442.1	2508.6	2585.5	2661.2	2679.5	2713.9	2765.5	2819.5	2867.6
17.5°	2467.3	2481.1	2527.0	2603.8	2693.3	2782.7	2803.4	2842.4	2883.7	2926.1	2972.0
20°	2566.0	2577.4	2635.9	2731.1	2836.7	2918.1	2938.7	2973.2	2992.7	3014.5	3053.5
22.5°	2664.6	2680.7	2747.2	2859.6	2983.5	3071.8	3087.9	3120.0	3106.2	3099.3	3124.6
25°	2787.3	2809.1	2874.5	2997.2	3123.4	3232.4	3245.0	3272.5	3249.6	3214.0	3212.9
27.5°	2939.9	2959.4	3027.1	3153.2	3278.3	3391.8	3415.9	3452.6	3402.2	3358.6	3327.6
30°	3121.1	3133.7	3208.3	3342.5	3471.0	3578.8	3609.8	3646.5	3608.6	3536.4	3505.4
32.5°	3332.2	3349.4	3435.4	3576.5	3691.2	3799.0	3830.0	3875.9	3834.6	3753.2	3714.2
35°	3585.7	3602.9	3693.5	3847.2	3964.2	4075.5	4097.3	4135.1	4083.5	3989.4	3958.5
37.5°	3861.0	3882.8	3997.5	4143.2	4265.9	4395.5	4396.7	4408.1	4334.7	4217.7	4183.3
40°	4170.7	4199.4	4314.1	4465.5	4613.4	4719.0	4717.8	4685.7	4561.8	4380.6	4327.8
42.5°	4476.9	4499.9	4615.7	4771.7	4919.7	5019.5	4989.7	4911.7	4732.7	4486.1	4416.2
45°	4698.3	4715.5	4837.1	5012.6	5162.9	5224.8	5170.9	5076.9	4834.8	4552.7	4449.4
47.5°	4802.7	4825.6	4948.4	5122.7	5292.5	5328.1	5263.8	5175.5	4894.5	4614.6	4475.8
50°	4746.5	4776.3	4915.1	5076.9	5268.4	5341.8	5295.9	5207.6	4957.6	4675.4	4522.8
52.5°	4600.8	4629.5	4805.0	5001.1	5217.9	5363.6	5362.5	5290.2	5029.8	4692.6	4525.1
55°	4103.0	4159.2	4432.2	4770.6	5156.0	5427.9	5455.4	5378.5	5041.3	4697.2	4549.2
57.5°	2670.3	2769.0	3028.2	3468.7	4241.8	4936.9	5122.7	5141.1	4958.7	4677.7	4553.8
60°	1114.9	1194.1	1399.4	1691.9	2330.8	3157.8	3518.0	3879.3	4315.2	4473.5	4511.4
62.5°	692.8	699.7	720.3	786.9	1000.2	1404.0	1635.7	1974.1	2622.2	3173.9	3428.5
65°	625.1	628.6	633.2	628.6	638.9	688.2	750.2	868.3	1132.1	1406.3	1732.0
67.5°	550.6	555.2	558.6	555.2	558.6	560.9	567.8	578.1	626.3	665.3	695.1
70°	445.1	451.9	457.7	455.4	469.1	469.1	476.0	484.1	508.1	536.8	557.5
72.5°	339.5	333.8	340.7	343.0	355.6	362.5	372.8	382.0	409.5	426.7	453.1
75°	220.2	214.5	224.8	230.6	247.8	256.9	266.1	275.3	294.8	306.3	331.5
77.5°	119.3	118.1	128.5	136.5	154.9	166.3	173.2	180.1	196.1	199.6	215.6
80°	68.8	68.8	75.7	81.4	92.9	105.5	112.4	118.1	129.6	133.1	139.9
82.5°	37.9	37.9	41.3	44.7	53.9	60.8	66.5	71.1	81.4	84.9	88.3
85°	18.4	17.2	19.5	21.8	25.2	28.7	32.1	34.4	42.4	44.7	49.3
87.5°	2.3	2.3	2.3	3.4	4.6	6.9	8.0	8.0	12.6	14.9	17.2
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°	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5
2.5°	2359.5	2344.6	2353.8	2357.2	2357.2	2353.8	2338.8	2334.3	2327.4	2317.0	2317.0
5°	2412.3	2400.8	2403.1	2397.3	2383.6	2366.4	2338.8	2325.1	2313.6	2301.0	2299.8
7.5°	2502.9	2488.0	2485.7	2463.9	2427.2	2390.5	2349.2	2323.9	2306.7	2290.7	2289.5
10°	2621.0	2607.3	2590.0	2546.5	2492.5	2438.6	2382.4	2348.0	2322.8	2299.8	2298.7
12.5°	2752.9	2736.9	2704.7	2640.5	2572.8	2520.1	2455.8	2403.1	2365.2	2334.3	2328.5
15°	2896.3	2873.4	2818.3	2742.6	2676.1	2619.9	2551.0	2475.3	2418.0	2368.7	2362.9
17.5°	3006.4	2976.6	2917.0	2845.8	2790.8	2734.6	2645.1	2549.9	2467.3	2405.4	2396.2
20°	3082.1	3058.0	2990.4	2937.6	2905.5	2856.2	2751.8	2644.0	2551.0	2473.0	2468.5
22.5°	3152.1	3123.4	3056.9	3025.9	3025.9	2992.7	2892.9	2765.5	2656.6	2566.0	2554.5
25°	3231.2	3200.3	3149.8	3146.4	3162.4	3147.5	3027.1	2890.6	2763.2	2661.2	2642.8
27.5°	3341.4	3307.0	3277.1	3297.8	3320.7	3304.7	3170.5	3012.2	2878.0	2774.7	2758.7
30°	3516.9	3474.4	3446.9	3472.1	3516.9	3469.8	3324.2	3156.7	3021.3	2907.8	2899.7
32.5°	3721.0	3672.9	3644.2	3684.3	3724.5	3651.1	3506.5	3346.0	3203.7	3084.4	3070.7
35°	3966.5	3905.7	3863.3	3917.2	3958.5	3886.2	3742.8	3590.3	3432.0	3308.1	3289.7
37.5°	4184.4	4111.0	4082.4	4158.1	4213.1	4166.1	4010.1	3866.7	3693.5	3558.2	3550.1
40°	4342.7	4270.5	4249.8	4374.9	4471.2	4459.7	4319.8	4155.8	3992.9	3836.9	3822.0
42.5°	4411.6	4361.1	4365.7	4534.3	4683.4	4756.8	4631.8	4456.3	4299.2	4137.4	4127.1
45°	4426.5	4395.5	4432.2	4643.3	4839.4	4989.7	4883.0	4736.2	4558.4	4402.4	4397.8
47.5°	4442.5	4425.3	4481.5	4705.2	4938.1	5112.4	5052.8	4901.4	4721.3	4568.7	4557.2
50°	4480.4	4473.5	4536.6	4748.8	4985.1	5145.7	5078.0	4927.7	4743.1	4592.8	4565.3
52.5°	4491.9	4480.4	4571.0	4816.5	5063.1	5144.5	4998.9	4802.7	4616.9	4449.4	4420.7
55°	4527.4	4506.8	4568.7	4841.7	5170.9	5211.1	4994.3	4700.6	4441.4	4213.1	4145.4
57.5°	4536.6	4513.7	4553.8	4800.4	5053.9	5018.4	4389.8	3793.3	3304.7	3051.2	3079.8
60°	4487.3	4494.2	4425.3	4397.8	4053.7	3578.8	2687.5	2148.4	1687.3	1492.3	1534.8
62.5°	3415.9	3444.6	3209.5	2790.8	2146.1	1701.1	1125.3	874.1	739.8	705.4	711.2
65°	1724.0	1763.0	1518.7	1256.0	933.7	754.8	652.7	632.0	625.1	617.1	617.1
67.5°	682.5	694.0	684.8	641.2	596.5	580.4	575.8	573.5	565.5	560.9	562.1
70°	548.3	557.5	543.7	516.2	497.8	496.7	494.4	489.8	484.1	484.1	487.5
72.5°	447.4	456.5	437.0	419.8	406.1	395.7	390.0	386.6	378.5	378.5	382.0
75°	329.2	334.9	318.9	316.6	301.7	291.4	282.2	277.6	267.3	262.7	266.1
77.5°	219.1	217.9	209.9	209.9	204.2	191.6	181.2	170.9	157.1	148.0	150.3
80°	142.2	142.2	138.8	138.8	133.1	122.7	110.1	99.8	91.8	84.9	84.9
82.5°	90.6	89.5	88.3	87.2	84.9	74.6	65.4	58.5	52.8	48.2	49.3
85°	50.5	50.5	48.2	48.2	43.6	37.9	33.3	28.7	25.2	24.1	24.1
87.5°	17.2	17.2	16.1	16.1	13.8	10.3	8.0	6.9	5.7	4.6	5.7
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)