

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: P633803

Luminaire Tested: GWS-SA2F-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-740-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

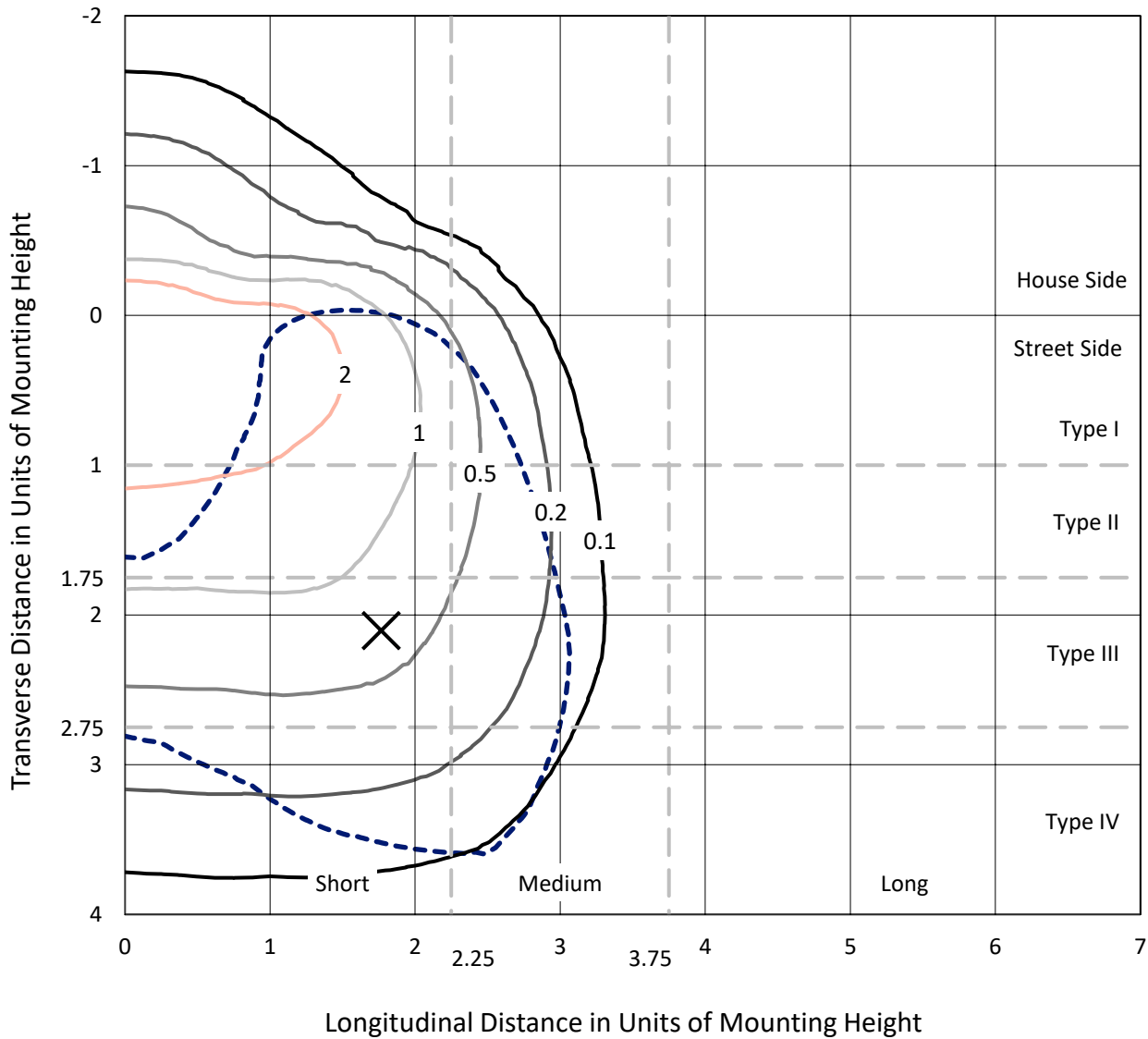
Lumens per Lamp: N/A  
Luminaire Lumens: 15580.1 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

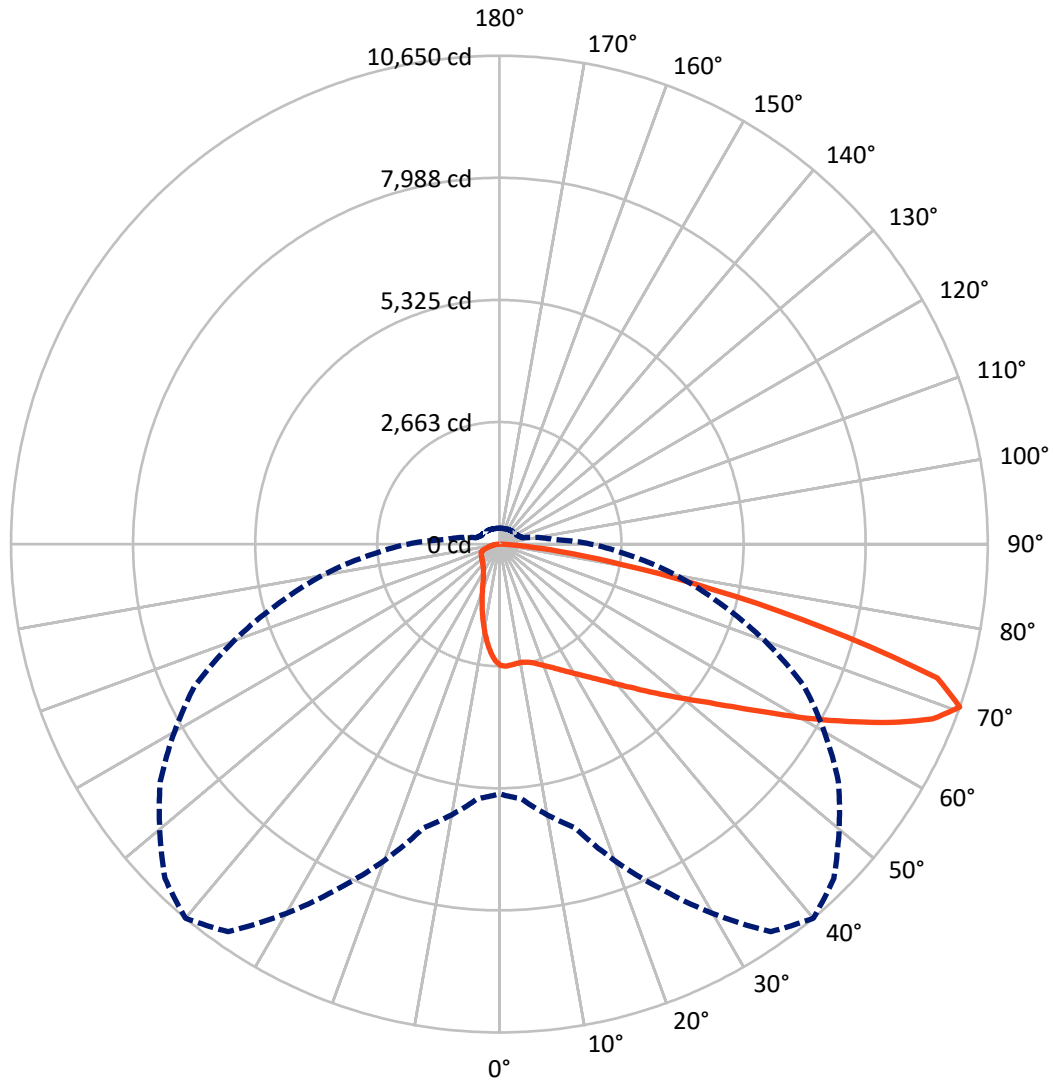
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2399.7	0.0	2399.7
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	13180.4	0.0	13180.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	15580.1	0.0	15580.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.7	1.5
10°-20°	609.2	3.9
20°-30°	956.6	6.1
30°-40°	1438.2	9.2
40°-50°	2220.0	14.2
50°-60°	3296.8	21.2
60°-70°	4155.6	26.7
70°-80°	2403.2	15.4
80°-90°	266.7	1.7
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°	15580.1	100.0
0°-180°	15580.1	100.0

**Coefficient of Utilization**



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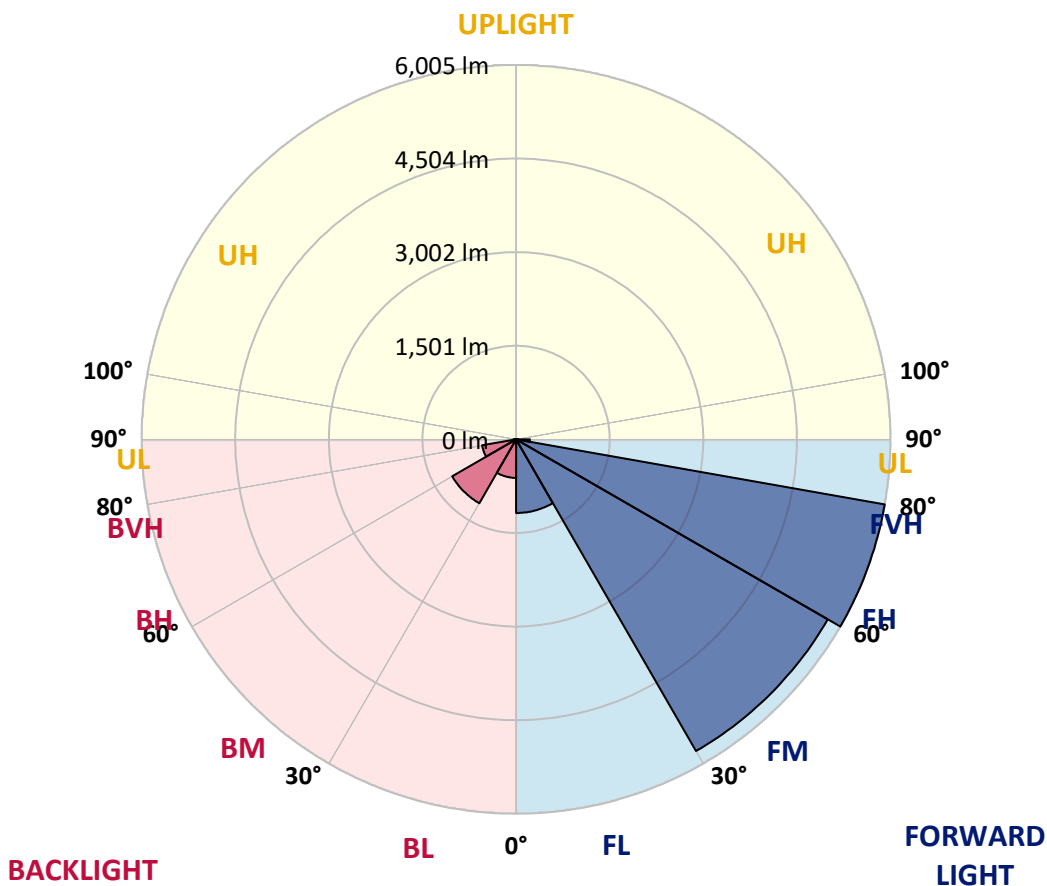
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1181.1	7.6			
FM (30°-60°)	5772.2	37.0			
FH (60°-80°)	6004.9	38.5			G3/7500
FVH (80°-90°)	222.1	1.4			G2/225
BL (0°-30°)	618.4	4.0	B2/1000		
BM (30°-60°)	1182.9	7.6	B2/2500		
BH (60°-80°)	553.9	3.6	B2/1000		G2/1000
BVH (80°-90°)	44.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7
2.5°	2662.0	2666.6	2670.1	2674.8	2672.4	2665.4	2671.3	2671.3	2658.5	2644.5	2631.7
5°	2665.4	2671.3	2670.1	2668.9	2659.6	2648.0	2648.0	2641.0	2618.9	2596.8	2575.9
7.5°	2658.5	2657.3	2656.1	2652.7	2642.2	2629.4	2627.1	2613.1	2584.0	2553.8	2523.6
10°	2627.1	2625.9	2629.4	2637.5	2635.2	2623.6	2623.6	2610.8	2577.1	2539.9	2500.3
12.5°	2601.5	2601.5	2615.4	2637.5	2645.7	2641.0	2642.2	2632.9	2594.5	2550.3	2503.8
15°	2605.0	2606.1	2636.4	2672.4	2687.5	2684.1	2685.2	2674.8	2631.7	2587.5	2524.7
17.5°	2628.2	2634.1	2686.4	2736.4	2756.2	2751.5	2743.4	2725.9	2677.1	2627.1	2550.3
20°	2677.1	2686.4	2753.8	2816.6	2839.9	2829.4	2815.5	2780.6	2727.1	2672.4	2578.2
22.5°	2773.6	2779.4	2853.8	2915.5	2934.1	2921.3	2893.4	2843.4	2781.7	2724.8	2612.0
25°	2909.7	2916.6	2987.6	3044.6	3039.9	3024.8	2986.4	2924.8	2851.5	2791.0	2660.8
27.5°	3071.3	3082.9	3152.7	3198.1	3167.8	3145.7	3102.7	3028.3	2945.7	2891.1	2735.2
30°	3248.1	3252.7	3312.0	3357.4	3310.9	3280.6	3228.3	3148.1	3073.6	3032.9	2846.9
32.5°	3419.0	3423.7	3474.9	3500.4	3451.6	3429.5	3384.1	3299.2	3246.9	3224.8	3013.2
35°	3599.3	3598.1	3640.0	3662.1	3612.1	3602.8	3556.3	3491.1	3481.8	3510.9	3256.2
37.5°	3779.5	3769.1	3791.2	3820.2	3792.3	3801.6	3771.4	3749.3	3785.4	3860.9	3579.5
40°	3923.7	3923.7	3947.0	3983.1	3992.4	4033.1	4015.6	4044.7	4161.0	4341.2	3979.6
42.5°	4051.7	4052.8	4101.7	4157.5	4224.9	4287.7	4301.7	4377.3	4618.0	4900.6	4482.0
45°	4185.4	4186.6	4252.9	4334.3	4477.3	4597.1	4625.0	4794.8	5139.0	5483.2	5027.4
47.5°	4340.1	4327.3	4419.2	4555.2	4758.7	4930.8	5003.0	5243.7	5678.6	6101.9	5541.4
50°	4514.5	4487.8	4590.1	4825.0	5076.2	5312.3	5433.2	5708.9	6257.8	6672.9	6025.2
52.5°	4711.1	4695.9	4802.9	5089.0	5472.8	5744.9	5908.9	6270.6	6820.6	7241.6	6408.9
55°	4955.3	4919.2	5073.9	5437.9	5938.0	6284.5	6478.7	6826.4	7435.8	7757.9	6702.0
57.5°	5222.7	5183.2	5390.2	5874.0	6542.7	6923.0	7166.0	7452.1	8015.0	8153.3	6874.1
60°	5511.2	5498.4	5743.7	6385.7	7263.7	7705.6	7881.2	8140.6	8518.5	8382.4	6831.1
62.5°	5775.1	5770.5	6127.5	6940.4	8027.7	8513.9	8653.4	8722.0	8881.3	8367.3	6489.2
65°	6053.1	6092.6	6575.2	7583.5	8903.4	9380.2	9438.4	9263.9	9003.5	7970.8	5789.1
67.5°	6088.0	6164.7	6856.7	8185.9	9733.8	10183.8	10137.3	9469.8	8642.9	6867.1	4537.8
70°	5444.9	5578.6	6407.8	8277.8	10318.7	10650.2	10314.1	9026.7	7334.6	4975.0	2853.8
72.5°	4549.4	4664.5	5397.2	7059.0	9564.0	9986.1	9531.4	7640.5	5183.2	2853.8	1453.7
75°	3541.1	3674.9	4350.5	5611.2	7160.2	7328.8	7100.9	5328.6	2849.2	1176.9	660.5
77.5°	2160.7	2257.3	2782.9	3801.6	5009.9	4757.6	4031.9	2987.6	1250.2	564.0	408.2
80°	955.9	1015.2	1371.1	2042.1	2894.5	2736.4	2157.2	1275.7	683.8	358.2	284.9
82.5°	512.9	551.2	675.7	808.2	1271.1	1329.2	1078.0	735.0	367.5	204.7	162.8
85°	225.6	247.7	307.0	293.1	417.5	410.5	414.0	504.7	175.6	94.2	105.8
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	12.8	67.5	17.4	27.9	24.4
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°	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7
2.5°	2617.8	2596.8	2591.0	2584.0	2571.3	2549.2	2532.9	2514.3	2506.1	2496.8	2498.0
5°	2552.6	2527.1	2502.6	2471.2	2431.7	2387.5	2357.3	2322.4	2303.8	2286.3	2291.0
7.5°	2496.8	2457.3	2407.3	2341.0	2270.1	2191.0	2127.0	2077.0	2043.3	2020.0	2031.6
10°	2461.9	2415.4	2328.2	2220.0	2100.3	1979.3	1887.4	1801.4	1747.9	1706.0	1703.7
12.5°	2455.0	2394.5	2267.7	2110.7	1937.5	1775.8	1640.9	1524.6	1453.7	1401.3	1421.1
15°	2461.9	2385.2	2215.4	2009.6	1790.9	1572.3	1404.8	1271.1	1186.2	1138.5	1135.0
17.5°	2470.1	2375.9	2156.1	1900.2	1637.4	1387.4	1193.2	1051.3	964.1	916.4	917.6
20°	2477.1	2361.9	2086.3	1780.5	1481.6	1215.3	1014.1	879.2	801.3	766.4	772.2
22.5°	2488.7	2348.0	2011.9	1652.5	1322.3	1049.0	872.2	762.9	716.4	693.1	694.3
25°	2510.8	2339.8	1935.1	1513.0	1165.3	916.4	774.5	701.3	672.2	658.2	657.1
27.5°	2556.1	2346.8	1854.9	1378.1	1023.4	815.2	711.7	664.0	644.3	635.0	633.8
30°	2631.7	2374.7	1785.1	1240.9	901.3	736.1	668.7	639.6	628.0	619.8	618.7
32.5°	2746.9	2427.0	1709.5	1112.9	802.4	678.0	635.0	619.8	611.7	607.1	607.1
35°	2921.3	2522.4	1635.1	1001.3	725.7	632.6	608.2	602.4	595.4	593.1	595.4
37.5°	3172.5	2674.8	1567.6	903.6	671.0	597.7	579.1	581.5	575.7	579.1	582.6
40°	3491.1	2878.3	1510.7	823.4	630.3	572.2	553.6	561.7	558.2	561.7	567.5
42.5°	3894.7	3130.6	1467.6	760.6	601.2	551.2	533.8	541.9	539.6	544.3	550.1
45°	4344.7	3463.2	1447.9	716.4	580.3	536.1	517.5	523.3	521.0	524.5	530.3
47.5°	4776.2	3765.6	1465.3	690.8	562.9	523.3	503.6	505.9	504.7	503.6	507.0
50°	5148.3	4006.3	1515.3	682.6	551.2	510.5	491.9	493.1	489.6	482.6	484.9
52.5°	5451.8	4199.4	1545.5	682.6	545.4	496.6	479.1	480.3	473.3	464.0	465.2
55°	5651.9	4277.3	1521.1	681.5	543.1	484.9	466.3	467.5	460.5	448.9	450.1
57.5°	5708.9	4201.7	1418.8	668.7	540.8	475.6	453.5	455.9	451.2	438.4	438.4
60°	5549.5	3924.9	1231.5	639.6	535.0	469.8	444.2	447.7	445.4	432.6	432.6
62.5°	5132.0	3433.0	1008.3	595.4	518.7	462.8	436.1	443.1	448.9	441.9	440.8
65°	4350.5	2750.3	819.9	546.6	497.7	451.2	424.5	441.9	454.7	464.0	464.0
67.5°	3264.4	1968.9	668.7	495.4	466.3	428.0	409.4	425.6	434.9	440.8	444.2
70°	1989.8	1158.3	526.8	436.1	421.0	393.1	379.1	362.8	350.0	347.7	348.9
72.5°	973.4	662.9	428.0	371.0	359.3	333.8	302.4	295.4	289.6	286.1	284.9
75°	536.1	461.7	353.5	308.2	287.2	255.8	248.9	237.2	234.9	230.3	231.4
77.5°	379.1	364.0	291.9	250.0	218.6	202.4	205.8	197.7	197.7	194.2	193.0
80°	284.9	286.1	224.4	182.6	161.6	155.8	159.3	159.3	157.0	155.8	154.7
82.5°	180.3	203.5	151.2	117.5	115.1	116.3	115.1	114.0	116.3	112.8	111.6
85°	124.4	146.5	91.9	69.8	69.8	68.6	70.9	69.8	72.1	68.6	68.6
87.5°	27.9	65.1	33.7	20.9	22.1	20.9	22.1	23.3	25.6	26.7	26.7
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)