

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: P633748

Luminaire Tested: GWS-SA2F-735-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633748  
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-735-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

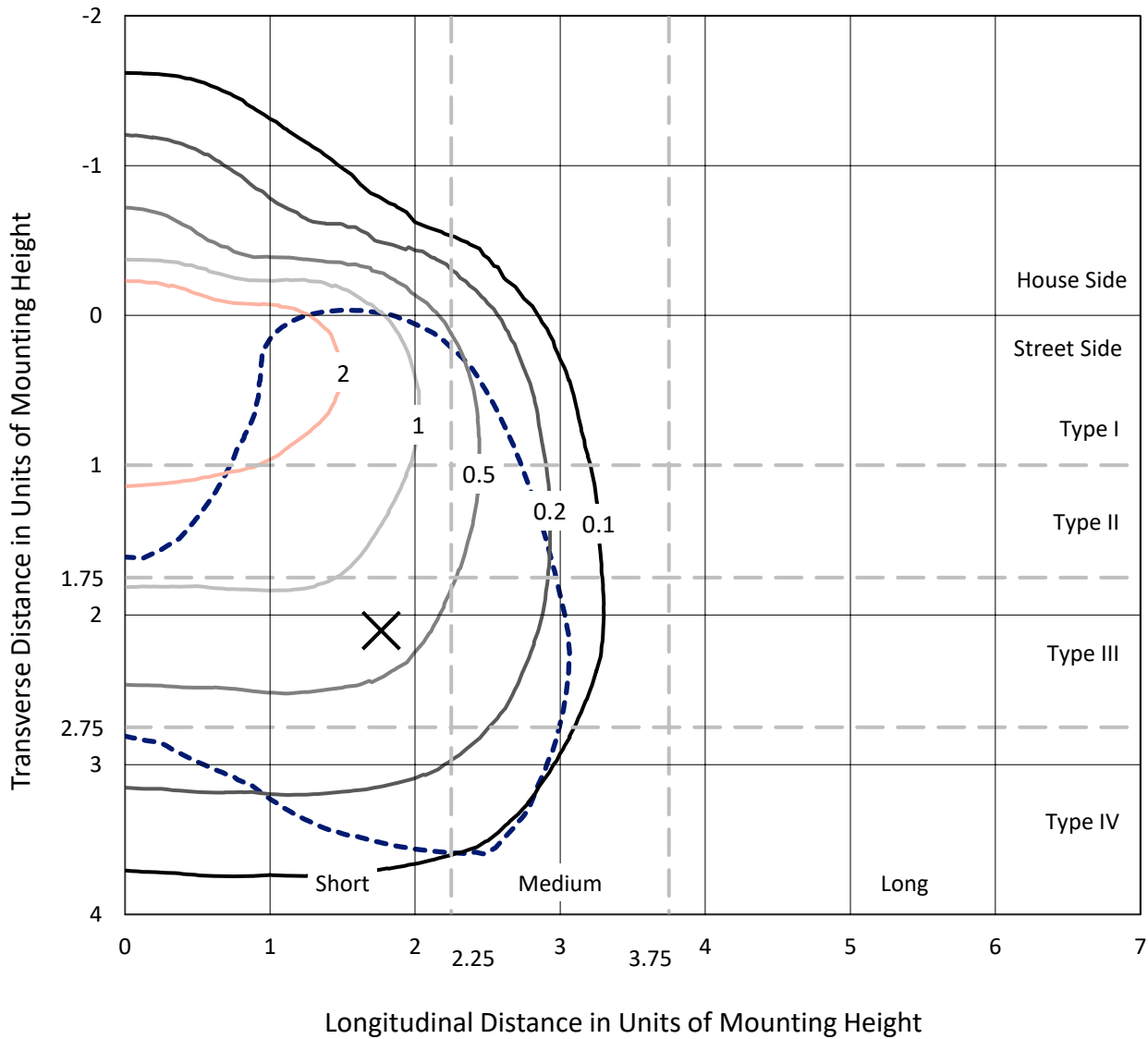
Lumens per Lamp: N/A  
Luminaire Lumens: 15366.5 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

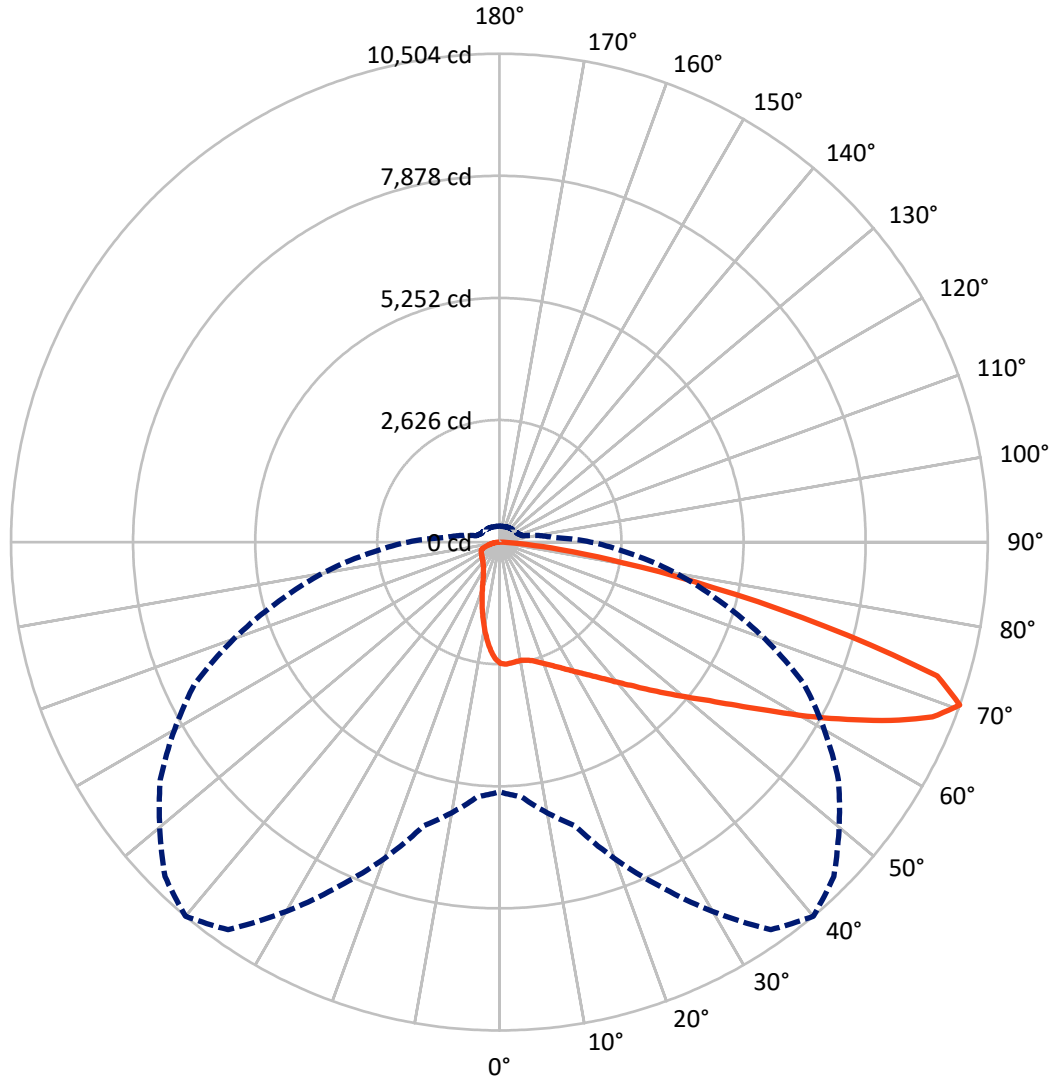
✕ Max cd  
 - - - 1/2 Max cd



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	2366.8	0.0	2366.8
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	12999.7	0.0	12999.7
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	15366.5	0.0	15366.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.5	1.5
10°-20°	600.9	3.9
20°-30°	943.5	6.1
30°-40°	1418.5	9.2
40°-50°	2189.5	14.2
50°-60°	3251.7	21.2
60°-70°	4098.7	26.7
70°-80°	2370.2	15.4
80°-90°	263.0	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°	15366.5	100.0
0°-180°	15366.5	100.0

**Coefficient of Utilization**



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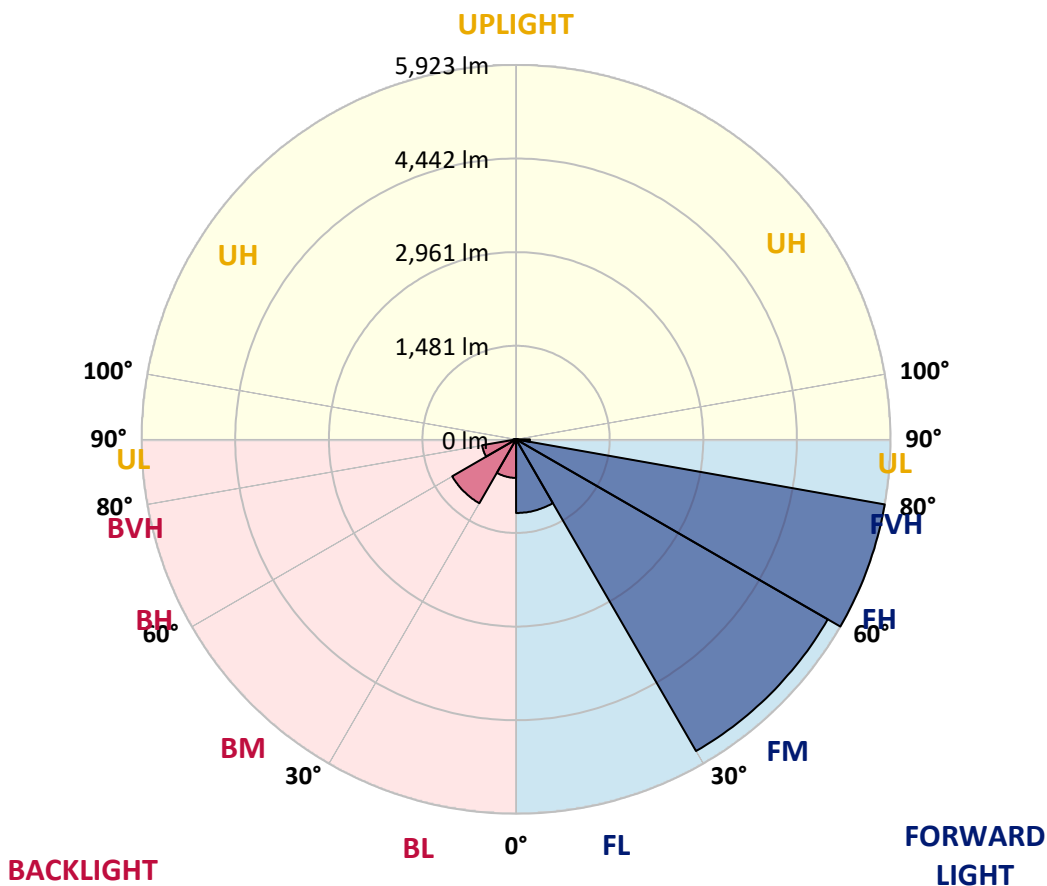
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.9	7.6			
FM (30°-60°)	5693.1	37.0			
FH (60°-80°)	5922.6	38.5			G3/7500
FVH (80°-90°)	219.1	1.4			G2/225
BL (0°-30°)	610.0	4.0	B2/1000		
BM (30°-60°)	1166.6	7.6	B2/2500		
BH (60°-80°)	546.3	3.6	B2/1000		G2/1000
BVH (80°-90°)	44.0	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°	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4
2.5°	2625.5	2630.1	2633.5	2638.1	2635.8	2628.9	2634.6	2634.6	2622.0	2608.3	2595.6
5°	2628.9	2634.6	2633.5	2632.3	2623.2	2611.7	2611.7	2604.8	2583.0	2561.2	2540.6
7.5°	2622.0	2620.9	2619.7	2616.3	2606.0	2593.4	2591.1	2577.3	2548.6	2518.8	2489.0
10°	2591.1	2589.9	2593.4	2601.4	2599.1	2587.6	2587.6	2575.0	2541.7	2505.0	2466.0
12.5°	2565.8	2565.8	2579.6	2601.4	2609.4	2604.8	2606.0	2596.8	2558.9	2515.4	2469.5
15°	2569.3	2570.4	2600.2	2635.8	2650.7	2647.3	2648.4	2638.1	2595.6	2552.1	2490.1
17.5°	2592.2	2597.9	2649.6	2698.9	2718.4	2713.8	2705.8	2688.6	2640.4	2591.1	2515.4
20°	2640.4	2649.6	2716.1	2778.0	2801.0	2790.6	2776.9	2742.5	2689.7	2635.8	2542.9
22.5°	2735.6	2741.3	2814.7	2875.5	2893.9	2881.2	2853.7	2804.4	2743.6	2687.4	2576.1
25°	2869.8	2876.7	2946.6	3002.8	2998.2	2983.3	2945.5	2884.7	2812.4	2752.8	2624.3
27.5°	3029.2	3040.7	3109.5	3154.2	3124.4	3102.6	3060.2	2986.8	2905.3	2851.4	2697.7
30°	3203.6	3208.1	3266.6	3311.4	3265.5	3235.7	3184.1	3104.9	3031.5	2991.4	2807.8
32.5°	3372.2	3376.7	3427.2	3452.4	3404.3	3382.5	3337.7	3254.0	3202.4	3180.6	2971.9
35°	3549.9	3548.8	3590.1	3611.9	3562.6	3553.4	3507.5	3443.3	3434.1	3462.8	3211.6
37.5°	3727.7	3717.4	3739.2	3767.9	3740.3	3749.5	3719.7	3697.9	3733.5	3808.0	3530.4
40°	3870.0	3870.0	3892.9	3928.4	3937.6	3977.8	3960.6	3989.2	4103.9	4281.7	3925.0
42.5°	3996.1	3997.3	4045.4	4100.5	4167.0	4229.0	4242.7	4317.3	4554.7	4833.4	4420.5
45°	4128.0	4129.2	4194.6	4274.8	4415.9	4534.1	4561.6	4729.1	5068.6	5408.1	4958.4
47.5°	4280.6	4268.0	4358.6	4492.8	4693.5	4863.2	4934.4	5171.8	5600.8	6018.3	5465.4
50°	4452.6	4426.2	4527.2	4758.9	5006.6	5239.5	5358.7	5630.6	6172.0	6581.4	5942.6
52.5°	4646.5	4631.6	4737.1	5019.2	5397.7	5666.1	5827.9	6184.6	6727.1	7142.3	6321.1
55°	4887.3	4851.8	5004.3	5363.3	5856.5	6198.3	6389.9	6732.8	7333.9	7651.6	6610.1
57.5°	5151.1	5112.1	5316.3	5793.5	6453.0	6828.0	7067.8	7349.9	7905.1	8041.6	6779.9
60°	5435.6	5423.0	5665.0	6298.1	7164.1	7600.0	7773.2	8028.9	8401.7	8267.5	6737.4
62.5°	5696.0	5691.4	6043.5	6845.3	7917.7	8397.1	8534.8	8602.4	8759.6	8252.6	6400.2
65°	5970.1	6009.1	6485.1	7479.5	8781.4	9251.6	9309.0	9136.9	8880.0	7861.5	5709.7
67.5°	6004.5	6080.2	6762.7	8073.7	9600.3	10044.2	9998.3	9340.0	8524.4	6773.0	4475.6
70°	5370.2	5502.1	6319.9	8164.3	10177.3	10504.2	10172.7	8903.0	7234.1	4906.8	2814.7
72.5°	4487.0	4600.6	5323.2	6962.2	9432.9	9849.2	9400.8	7535.7	5112.1	2814.7	1433.7
75°	3492.6	3624.5	4290.9	5534.2	7062.0	7228.3	7003.5	5255.5	2810.1	1160.8	651.5
77.5°	2131.1	2226.3	2744.8	3749.5	4941.2	4692.3	3976.6	2946.6	1233.0	556.3	402.6
80°	942.8	1001.3	1352.3	2014.1	2854.9	2698.9	2127.7	1258.3	674.4	353.3	281.0
82.5°	505.8	543.7	666.4	797.2	1253.7	1311.0	1063.3	724.9	362.4	201.9	160.6
85°	222.5	244.3	302.8	289.0	411.8	404.9	408.3	497.8	173.2	92.9	104.4
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	12.6	66.5	17.2	27.5	24.1
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°	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4	2609.4
2.5°	2581.9	2561.2	2555.5	2548.6	2536.0	2514.2	2498.1	2479.8	2471.8	2462.6	2463.7
5°	2517.6	2492.4	2468.3	2437.4	2398.4	2354.8	2325.0	2290.5	2272.2	2255.0	2259.6
7.5°	2462.6	2423.6	2374.3	2308.9	2238.9	2160.9	2097.8	2048.5	2015.3	1992.3	2003.8
10°	2428.2	2382.3	2296.3	2189.6	2071.5	1952.2	1861.6	1776.7	1723.9	1682.6	1680.3
12.5°	2421.3	2361.7	2236.6	2081.8	1910.9	1751.5	1618.4	1503.7	1433.7	1382.1	1401.6
15°	2428.2	2352.5	2185.0	1982.0	1766.4	1550.7	1385.6	1253.7	1169.9	1122.9	1119.5
17.5°	2436.2	2343.3	2126.5	1874.2	1615.0	1368.4	1176.8	1036.9	950.9	903.8	905.0
20°	2443.1	2329.5	2057.7	1756.0	1461.3	1198.6	1000.2	867.1	790.3	755.9	761.6
22.5°	2454.6	2315.8	1984.3	1629.9	1304.1	1034.6	860.2	752.4	706.5	683.6	684.8
25°	2476.4	2307.7	1908.6	1492.2	1149.3	903.8	763.9	691.6	663.0	649.2	648.1
27.5°	2521.1	2314.6	1829.5	1359.2	1009.4	804.0	702.0	654.9	635.4	626.3	625.1
30°	2595.6	2342.2	1760.6	1223.8	888.9	726.0	659.5	630.8	619.4	611.3	610.2
32.5°	2709.2	2393.8	1686.1	1097.7	791.4	668.7	626.3	611.3	603.3	598.7	598.7
35°	2881.2	2487.8	1612.7	987.6	715.7	624.0	599.9	594.1	587.3	585.0	587.3
37.5°	3129.0	2638.1	1546.1	891.2	661.8	589.6	571.2	573.5	567.8	571.2	574.6
40°	3443.3	2838.8	1489.9	812.1	621.7	564.3	546.0	554.0	550.6	554.0	559.7
42.5°	3841.3	3087.7	1447.5	750.1	593.0	543.7	526.5	534.5	532.2	536.8	542.5
45°	4285.2	3415.7	1428.0	706.5	572.3	528.8	510.4	516.1	513.9	517.3	523.0
47.5°	4710.7	3714.0	1445.2	681.3	555.1	516.1	496.6	498.9	497.8	496.6	500.1
50°	5077.7	3951.4	1494.5	673.3	543.7	503.5	485.2	486.3	482.9	476.0	478.3
52.5°	5377.1	4141.8	1524.4	673.3	537.9	489.8	472.6	473.7	466.8	457.7	458.8
55°	5574.4	4218.6	1500.3	672.1	535.6	478.3	459.9	461.1	454.2	442.7	443.9
57.5°	5630.6	4144.1	1399.3	659.5	533.4	469.1	447.3	449.6	445.0	432.4	432.4
60°	5473.4	3871.1	1214.7	630.8	527.6	463.4	438.2	441.6	439.3	426.7	426.7
62.5°	5061.7	3385.9	994.4	587.3	511.6	456.5	430.1	437.0	442.7	435.9	434.7
65°	4290.9	2712.6	808.6	539.1	490.9	445.0	418.7	435.9	448.5	457.7	457.7
67.5°	3219.6	1941.9	659.5	488.6	459.9	422.1	403.7	419.8	429.0	434.7	438.2
70°	1962.5	1142.4	519.6	430.1	415.2	387.7	373.9	357.9	345.2	343.0	344.1
72.5°	960.0	653.8	422.1	365.9	354.4	329.2	298.2	291.3	285.6	282.2	281.0
75°	528.8	455.4	348.7	304.0	283.3	252.3	245.5	234.0	231.7	227.1	228.3
77.5°	373.9	359.0	287.9	246.6	215.6	199.6	203.0	195.0	195.0	191.5	190.4
80°	281.0	282.2	221.4	180.1	159.4	153.7	157.1	157.1	154.8	153.7	152.6
82.5°	177.8	200.7	149.1	115.8	113.6	114.7	113.6	112.4	114.7	111.3	110.1
85°	122.7	144.5	90.6	68.8	68.8	67.7	70.0	68.8	71.1	67.7	67.7
87.5°	27.5	64.2	33.3	20.6	21.8	20.6	21.8	22.9	25.2	26.4	26.4
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)