

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: P637323

Luminaire Tested: GWS-SA4C-750-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637323  
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-SA4C-750-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

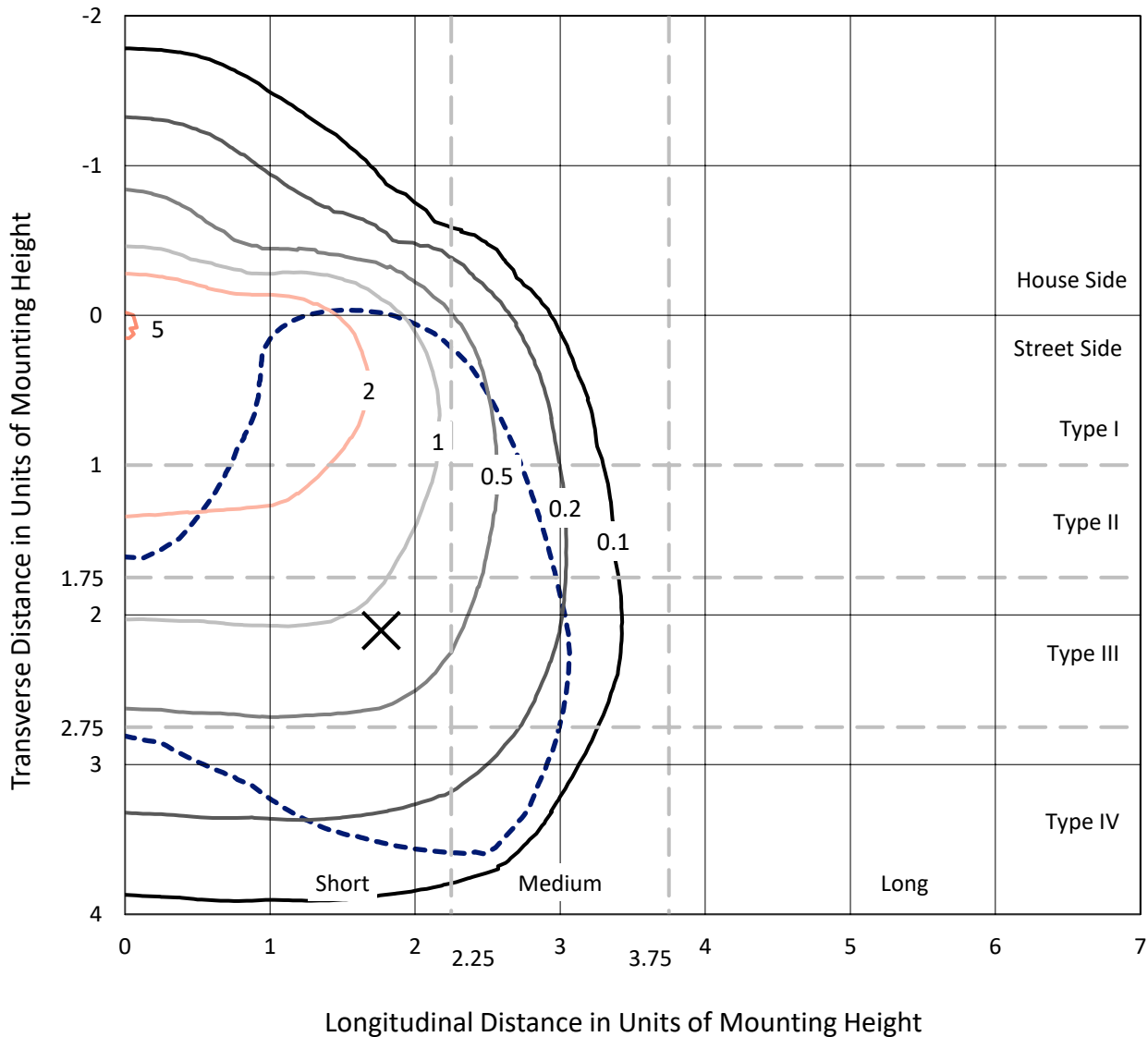
Lumens per Lamp: N/A  
Luminaire Lumens: 19070 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

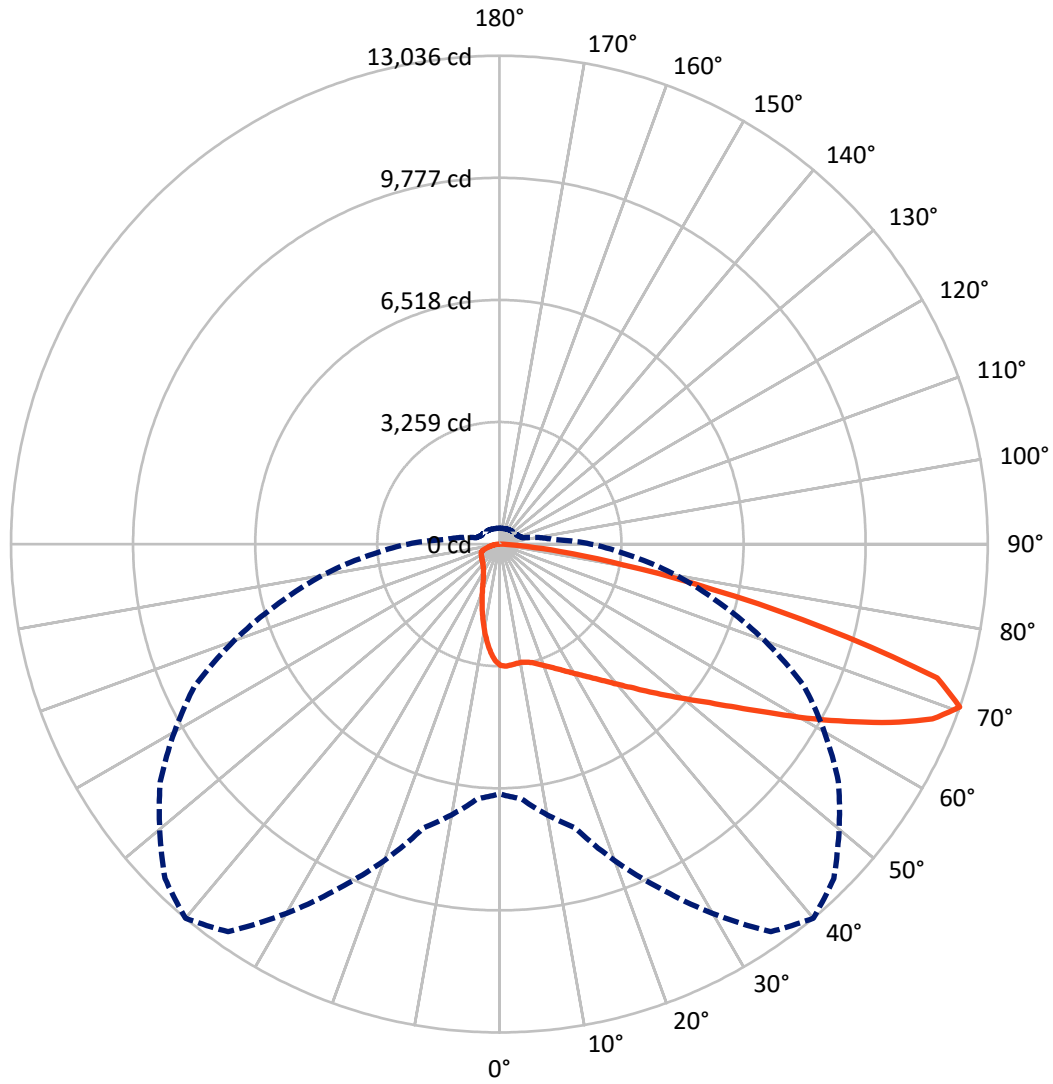
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	2937.3	0.0	2937.3
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	16132.7	0.0	16132.7
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	19070.0	0.0	19070.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.1	1.5
10°-20°	745.7	3.9
20°-30°	1170.9	6.1
30°-40°	1760.4	9.2
40°-50°	2717.2	14.2
50°-60°	4035.3	21.2
60°-70°	5086.5	26.7
70°-80°	2941.5	15.4
80°-90°	326.4	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°	19070.0	100.0
0°-180°	19070.0	100.0

**Coefficient of Utilization**



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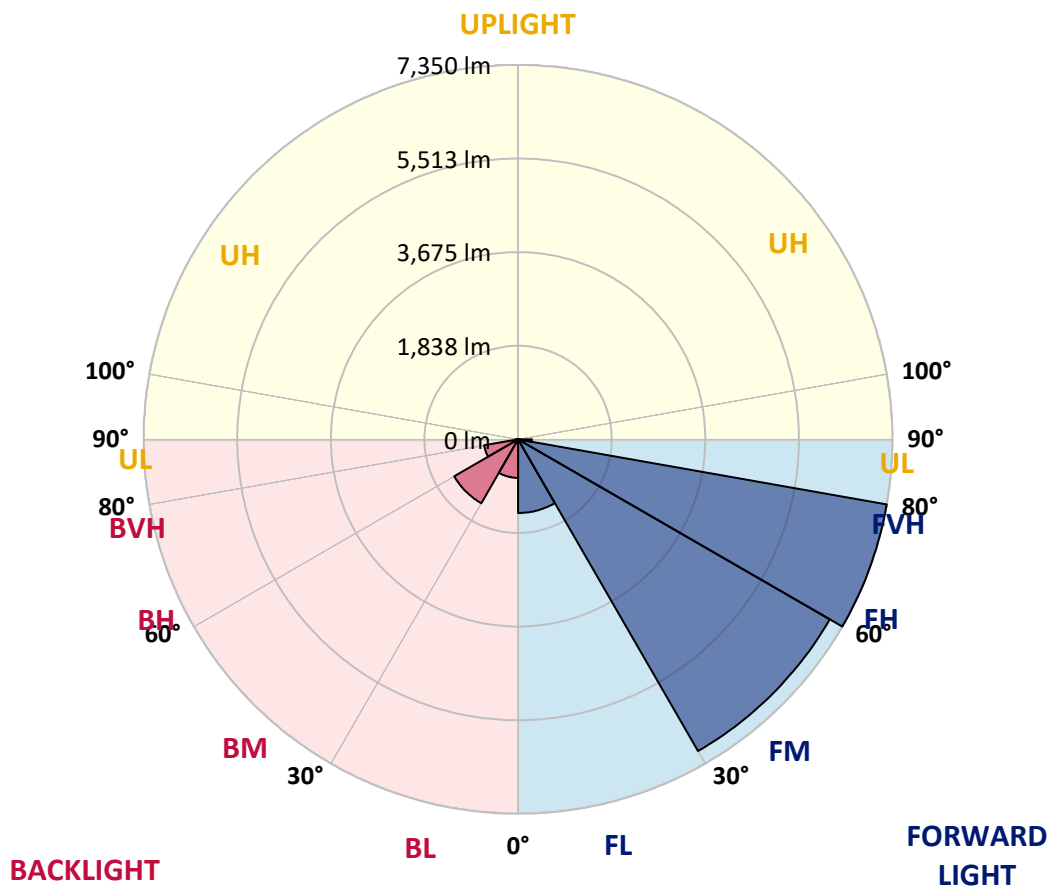
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.6	7.6			
FM (30°-60°)	7065.2	37.0			
FH (60°-80°)	7350.0	38.5			G3/7500
FVH (80°-90°)	271.9	1.4			G3/500
BL (0°-30°)	757.0	4.0	B2/1000		
BM (30°-60°)	1447.8	7.6	B2/2500		
BH (60°-80°)	677.9	3.6	B2/1000		G2/1000
BVH (80°-90°)	54.6	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°	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3
2.5°	3258.2	3263.9	3268.2	3273.9	3271.0	3262.5	3269.6	3269.6	3254.0	3236.9	3221.2
5°	3262.5	3269.6	3268.2	3266.8	3255.4	3241.2	3241.2	3232.6	3205.6	3178.5	3152.9
7.5°	3254.0	3252.5	3251.1	3246.8	3234.0	3218.4	3215.5	3198.4	3162.9	3125.9	3088.8
10°	3215.5	3214.1	3218.4	3228.3	3225.5	3211.3	3211.3	3195.6	3154.3	3108.8	3060.4
12.5°	3184.2	3184.2	3201.3	3228.3	3238.3	3232.6	3234.0	3222.6	3175.7	3121.6	3064.6
15°	3188.5	3189.9	3226.9	3271.0	3289.5	3285.3	3286.7	3273.9	3221.2	3167.1	3090.3
17.5°	3217.0	3224.1	3288.1	3349.3	3373.5	3367.8	3357.9	3336.5	3276.7	3215.5	3121.6
20°	3276.7	3288.1	3370.7	3447.5	3476.0	3463.2	3446.1	3403.4	3337.9	3271.0	3155.7
22.5°	3394.9	3402.0	3493.1	3568.5	3591.3	3575.7	3541.5	3480.3	3404.8	3335.1	3197.0
25°	3561.4	3570.0	3656.8	3726.5	3720.8	3702.3	3655.4	3579.9	3490.3	3416.2	3256.8
27.5°	3759.3	3773.5	3858.9	3914.4	3877.4	3850.4	3797.7	3706.6	3605.5	3538.6	3347.9
30°	3975.6	3981.3	4053.9	4109.4	4052.5	4015.5	3951.4	3853.2	3762.1	3712.3	3484.6
32.5°	4184.9	4190.6	4253.2	4284.5	4224.7	4197.7	4142.2	4038.3	3974.2	3947.2	3688.1
35°	4405.5	4404.1	4455.3	4482.4	4421.2	4409.8	4352.9	4273.1	4261.8	4297.3	3985.6
37.5°	4626.1	4613.3	4640.4	4676.0	4641.8	4653.2	4616.2	4589.1	4633.3	4725.8	4381.3
40°	4802.7	4802.7	4831.1	4875.2	4886.6	4936.5	4915.1	4950.7	5093.0	5313.7	4871.0
42.5°	4959.2	4960.7	5020.4	5088.8	5171.3	5248.2	5265.3	5357.8	5652.4	5998.3	5485.9
45°	5122.9	5124.4	5205.5	5305.1	5480.2	5626.8	5661.0	5868.8	6290.1	6711.5	6153.5
47.5°	5312.2	5296.6	5409.0	5575.6	5824.7	6035.3	6123.6	6418.2	6950.6	7468.7	6782.6
50°	5525.8	5493.0	5618.3	5905.8	6213.3	6502.2	6650.3	6987.6	7659.5	8167.6	7374.8
52.5°	5766.3	5747.8	5878.8	6228.9	6698.7	7031.7	7232.5	7675.1	8348.4	8863.7	7844.5
55°	6065.2	6021.1	6210.4	6656.0	7268.0	7692.2	7929.9	8355.5	9101.4	9495.7	8203.2
57.5°	6392.6	6344.2	6597.6	7189.7	8008.2	8473.7	8771.2	9121.3	9810.3	9979.7	8413.9
60°	6745.6	6730.0	7030.3	7816.1	8890.7	9431.7	9646.6	9964.0	10426.6	10260.1	8361.2
62.5°	7068.8	7063.1	7500.1	8495.0	9825.9	10420.9	10591.7	10675.7	10870.7	10241.6	7942.7
65°	7409.0	7457.4	8048.1	9282.2	10897.8	11481.4	11552.6	11339.0	11020.2	9756.2	7085.8
67.5°	7451.7	7545.6	8392.5	10019.5	11914.1	12465.0	12408.0	11591.0	10578.9	8405.4	5554.2
70°	6664.5	6828.2	7843.1	10132.0	12630.1	13035.8	12624.4	11048.7	8977.6	6089.4	3493.1
72.5°	5568.5	5709.4	6606.1	8640.2	11706.3	12223.0	11666.4	9351.9	6344.2	3493.1	1779.3
75°	4334.3	4498.0	5325.1	6868.1	8764.1	8970.5	8691.5	6522.2	3487.4	1440.5	808.5
77.5°	2644.7	2762.9	3406.3	4653.2	6132.1	5823.3	4935.0	3656.8	1530.2	690.4	499.6
80°	1170.1	1242.7	1678.2	2499.5	3542.9	3349.3	2640.5	1561.5	837.0	438.4	348.7
82.5°	627.7	674.7	827.0	989.3	1555.8	1627.0	1319.5	899.6	449.8	250.5	199.3
85°	276.1	303.2	375.8	358.7	511.0	502.5	506.7	617.8	214.9	115.3	129.5
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	15.7	82.6	21.4	34.2	29.9
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°	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3	3238.3
2.5°	3204.1	3178.5	3171.4	3162.9	3147.2	3120.2	3100.2	3077.5	3067.5	3056.1	3057.5
5°	3124.4	3093.1	3063.2	3024.8	2976.4	2922.3	2885.3	2842.6	2819.8	2798.5	2804.2
7.5°	3056.1	3007.7	2946.5	2865.4	2778.5	2681.7	2603.5	2542.2	2501.0	2472.5	2486.7
10°	3013.4	2956.5	2849.7	2717.3	2570.7	2422.7	2310.2	2204.9	2139.4	2088.2	2085.3
12.5°	3004.9	2930.8	2775.7	2583.5	2371.4	2173.6	2008.5	1866.1	1779.3	1715.2	1739.4
15°	3013.4	2919.5	2711.6	2459.7	2192.1	1924.5	1719.5	1555.8	1451.9	1393.5	1389.3
17.5°	3023.4	2908.1	2639.0	2325.9	2004.2	1698.2	1460.4	1286.8	1180.0	1121.7	1123.1
20°	3031.9	2891.0	2553.6	2179.3	1813.5	1487.5	1241.2	1076.1	980.7	938.0	945.2
22.5°	3046.1	2873.9	2462.5	2022.7	1618.4	1283.9	1067.6	933.8	876.8	848.4	849.8
25°	3073.2	2863.9	2368.6	1851.9	1426.3	1121.7	948.0	858.3	822.7	805.7	804.2
27.5°	3128.7	2872.5	2270.4	1686.8	1252.6	997.8	871.1	812.8	788.6	777.2	775.8
30°	3221.2	2906.6	2185.0	1518.8	1103.2	901.0	818.5	782.9	768.7	758.7	757.3
32.5°	3362.1	2970.7	2092.4	1362.2	982.2	829.9	777.2	758.7	748.7	743.0	743.0
35°	3575.7	3087.4	2001.3	1225.6	888.2	774.3	744.5	737.3	728.8	725.9	728.8
37.5°	3883.1	3273.9	1918.8	1106.0	821.3	731.6	708.9	711.7	704.6	708.9	713.1
40°	4273.1	3523.0	1849.0	1007.8	771.5	700.3	677.6	687.5	683.2	687.5	694.6
42.5°	4767.1	3831.9	1796.4	930.9	735.9	674.7	653.4	663.3	660.5	666.2	673.3
45°	5317.9	4239.0	1772.2	876.8	710.3	656.2	633.4	640.5	637.7	642.0	649.1
47.5°	5846.0	4609.1	1793.5	845.5	688.9	640.5	616.3	619.2	617.8	616.3	620.6
50°	6301.5	4903.7	1854.7	835.6	674.7	624.9	602.1	603.5	599.3	590.7	593.6
52.5°	6673.0	5140.0	1891.7	835.6	667.6	607.8	586.5	587.9	579.3	567.9	569.4
55°	6917.9	5235.4	1861.8	834.1	664.7	593.6	570.8	572.2	563.7	549.4	550.9
57.5°	6987.6	5142.9	1736.6	818.5	661.9	582.2	555.1	558.0	552.3	536.6	536.6
60°	6792.6	4804.1	1507.4	782.9	654.8	575.1	543.8	548.0	545.2	529.5	529.5
62.5°	6281.6	4202.0	1234.1	728.8	634.9	566.5	533.8	542.3	549.4	540.9	539.5
65°	5325.1	3366.4	1003.5	669.0	609.2	552.3	519.6	540.9	556.6	567.9	567.9
67.5°	3995.6	2409.9	818.5	606.4	570.8	523.8	501.0	521.0	532.4	539.5	543.8
70°	2435.5	1417.7	644.8	533.8	515.3	481.1	464.0	444.1	428.5	425.6	427.0
72.5°	1191.4	811.4	523.8	454.1	439.8	408.5	370.1	361.6	354.4	350.2	348.7
75°	656.2	565.1	432.7	377.2	351.6	313.2	304.6	290.4	287.5	281.8	283.3
77.5°	464.0	445.5	357.3	306.0	267.6	247.7	251.9	242.0	242.0	237.7	236.3
80°	348.7	350.2	274.7	223.5	197.9	190.7	195.0	195.0	192.2	190.7	189.3
82.5°	220.6	249.1	185.0	143.8	140.9	142.3	140.9	139.5	142.3	138.1	136.6
85°	152.3	179.4	112.5	85.4	85.4	84.0	86.8	85.4	88.3	84.0	84.0
87.5°	34.2	79.7	41.3	25.6	27.0	25.6	27.0	28.5	31.3	32.7	32.7
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)