

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: P636052

Luminaire Tested: GWS-SA3F-722-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-722-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

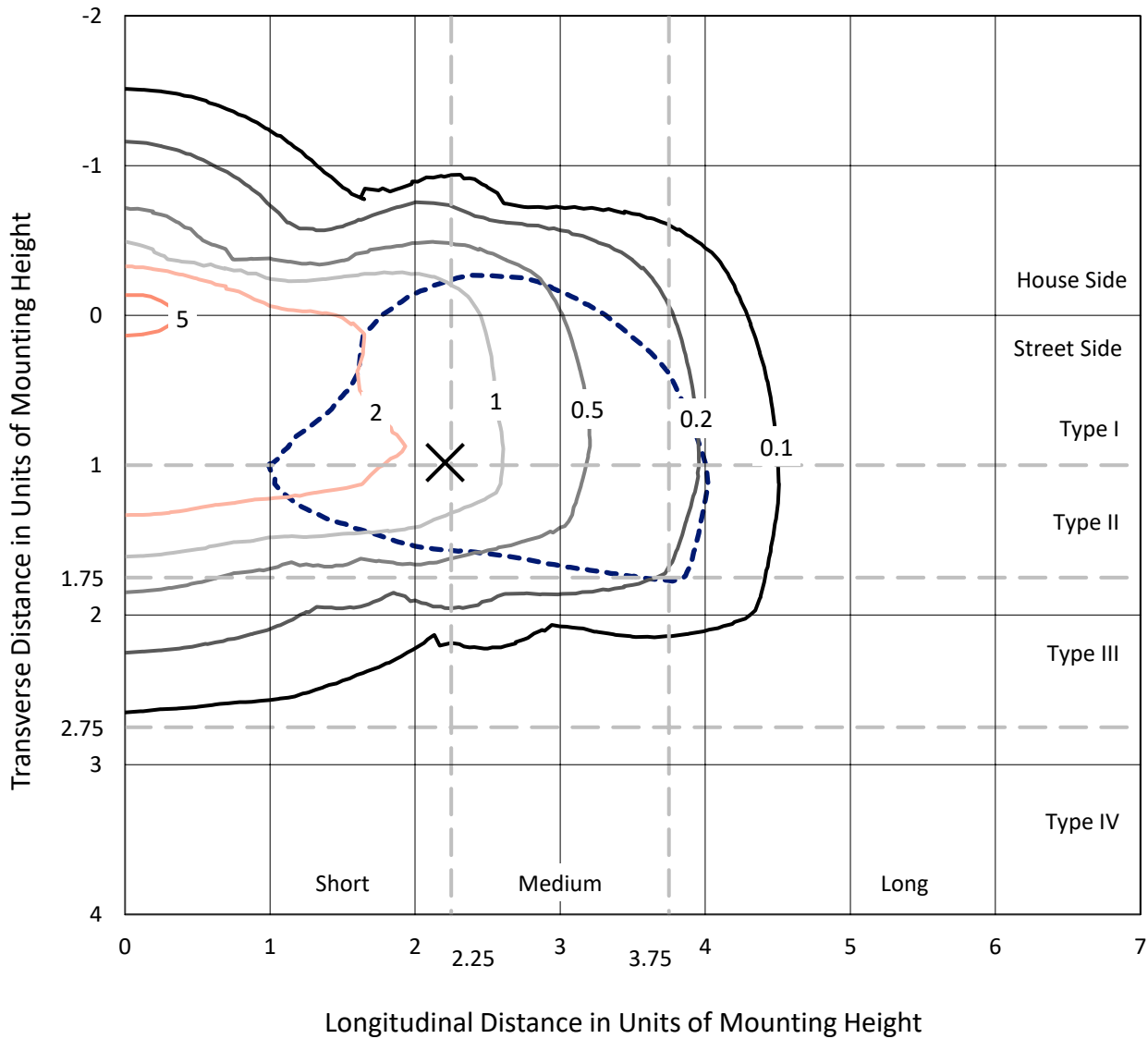
Lumens per Lamp: N/A  
Luminaire Lumens: 17698.4 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

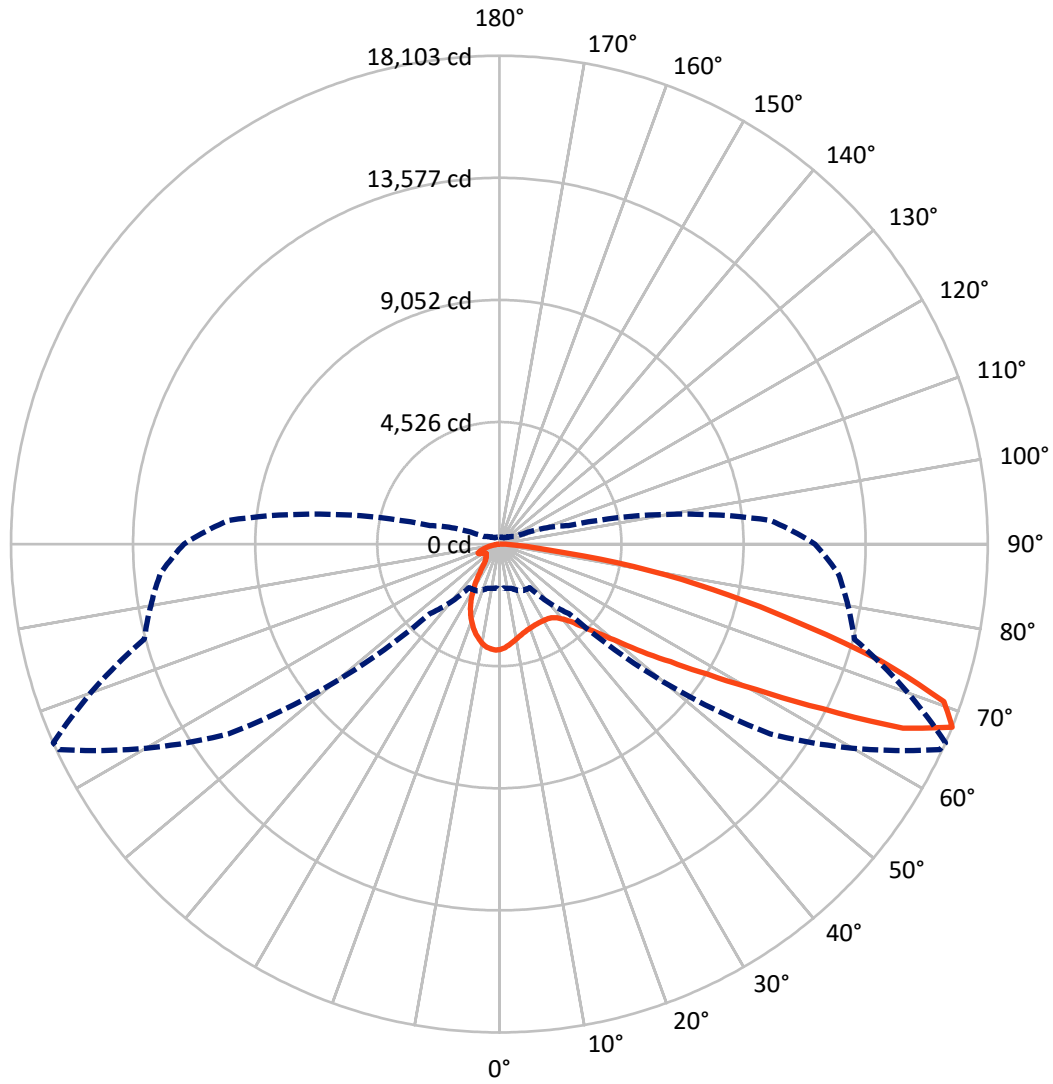
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3591.4	0.0	3591.4
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	14107.0	0.0	14107.0
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	17698.4	0.0	17698.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.2	1.9
10°-20°	843.5	4.8
20°-30°	1159.4	6.6
30°-40°	1585.1	9.0
40°-50°	2401.9	13.6
50°-60°	3733.8	21.1
60°-70°	4545.9	25.7
70°-80°	2769.1	15.6
80°-90°	316.3	1.8
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°	17698.4	100.0
0°-180°	17698.4	100.0

**Coefficient of Utilization**



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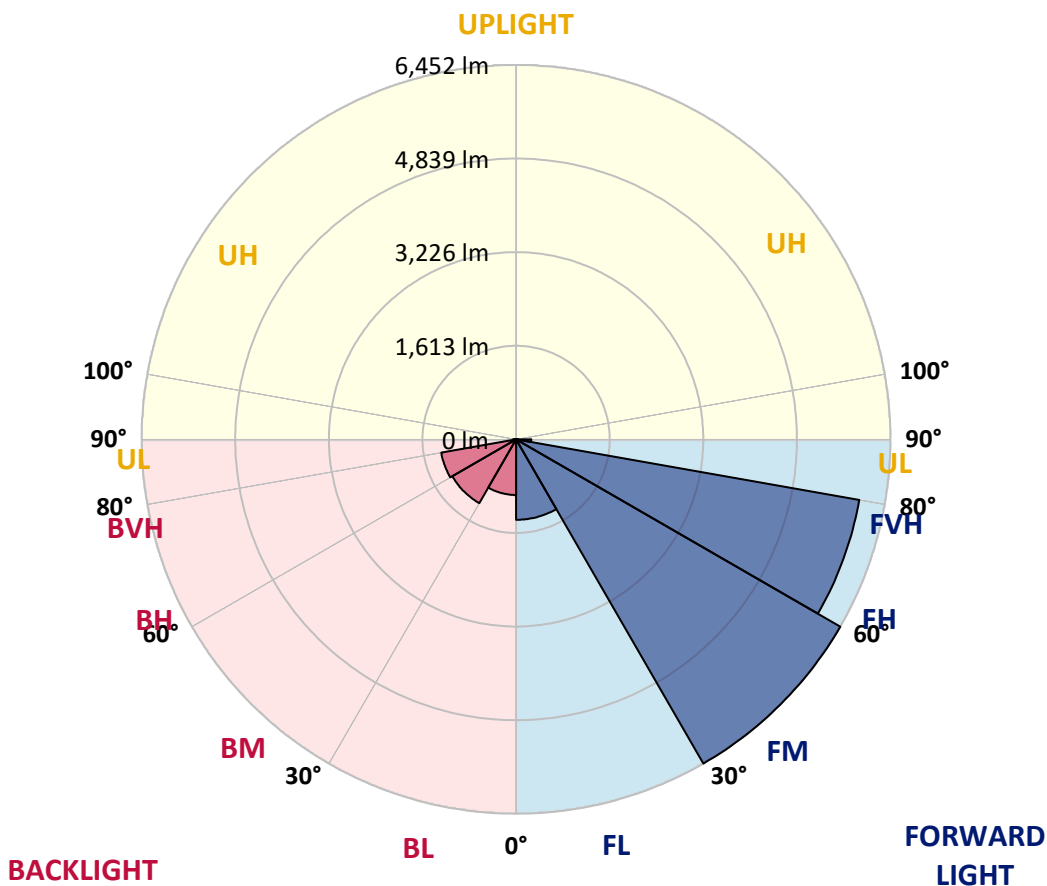
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.7	7.8			
FM (30°-60°)	6451.7	36.5			
FH (60°-80°)	6005.5	33.9			G3/7500
FVH (80°-90°)	263.0	1.5			G3/500
BL (0°-30°)	959.4	5.4	B2/1000		
BM (30°-60°)	1269.2	7.2	B2/2500		
BH (60°-80°)	1309.5	7.4	B3/2500		G3/2500
BVH (80°-90°)	53.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8
2.5°	3662.9	3675.9	3668.1	3717.2	3719.8	3781.7	3816.6	3846.3	3848.9	3887.6	3913.4
5°	3412.5	3420.2	3420.2	3466.7	3497.7	3580.3	3660.4	3745.6	3752.0	3845.0	3916.0
7.5°	3209.8	3217.5	3212.3	3274.3	3314.3	3406.0	3508.0	3638.4	3651.3	3801.1	3925.0
10°	3050.9	3048.4	3061.3	3118.1	3169.7	3279.5	3393.1	3541.6	3560.9	3750.7	3935.4
12.5°	2942.5	2945.1	2952.8	3012.2	3067.7	3176.2	3293.7	3455.1	3475.7	3692.6	3930.2
15°	2890.8	2885.7	2892.1	2946.4	2999.3	3094.8	3216.2	3382.8	3403.4	3641.0	3931.5
17.5°	2879.2	2875.4	2874.1	2912.8	2952.8	3041.9	3158.1	3327.3	3349.2	3607.4	3939.2
20°	2915.4	2910.2	2896.0	2912.8	2929.6	3004.5	3116.8	3287.2	3311.8	3585.5	3954.7
22.5°	3014.8	3005.8	2983.8	2963.2	2941.2	2986.4	3091.0	3257.5	3282.1	3571.3	3970.2
25°	3165.9	3158.1	3134.9	3088.4	3008.3	3000.6	3085.8	3244.6	3269.2	3560.9	3976.7
27.5°	3373.7	3362.1	3338.9	3271.7	3141.3	3053.5	3105.2	3243.3	3266.6	3549.3	3970.2
30°	3620.3	3612.6	3599.7	3518.3	3344.0	3165.9	3149.1	3253.7	3271.7	3542.9	3957.3
32.5°	3870.8	3863.1	3873.4	3834.7	3620.3	3351.8	3244.6	3282.1	3295.0	3541.6	3945.7
35°	4091.6	4100.6	4175.5	4182.0	3971.5	3603.6	3395.7	3347.9	3350.5	3567.4	3950.9
37.5°	4322.7	4357.6	4455.7	4539.6	4364.0	3936.7	3620.3	3471.9	3469.3	3633.3	3983.1
40°	4628.7	4644.2	4769.4	4927.0	4817.2	4393.7	3939.2	3674.6	3656.5	3767.5	4069.7
42.5°	4927.0	4964.4	5164.5	5345.3	5309.1	4908.9	4340.8	3978.0	3945.7	4005.1	4247.8
45°	5306.6	5342.7	5567.4	5799.8	5865.6	5491.2	4854.7	4409.2	4376.9	4362.7	4574.5
47.5°	5686.2	5723.6	5925.0	6260.7	6491.8	6219.4	5523.5	4978.6	4925.7	4870.2	5067.7
50°	5941.8	5985.7	6178.1	6580.9	7123.2	7128.3	6316.2	5724.9	5657.7	5570.0	5762.3
52.5°	5932.8	5961.2	6144.5	6609.3	7577.7	8172.9	7377.5	6675.2	6620.9	6429.8	6597.7
55°	5466.7	5509.3	5693.9	6274.9	7626.7	9163.2	8937.2	7795.9	7699.0	7356.9	7541.5
57.5°	4530.6	4566.7	4752.7	5469.2	7191.6	9670.6	10917.8	9223.9	9090.9	8366.5	8579.6
60°	3420.2	3376.3	3464.1	4091.6	6151.0	9683.5	12666.0	11160.6	10938.5	9445.9	9624.1
62.5°	2566.8	2522.9	2542.2	2719.1	4170.4	8901.1	13662.8	13810.0	13443.3	10664.8	10629.9
65°	2028.4	2003.8	2059.4	2180.7	2431.2	6778.5	13670.5	16675.0	16443.9	12077.3	11661.5
67.5°	1652.7	1637.2	1694.0	1918.6	1971.6	3642.3	12258.0	18012.6	18103.0	13624.0	12618.2
70°	1331.2	1307.9	1397.0	1692.7	1833.4	2204.0	8781.0	17330.9	17476.8	14545.9	12348.4
72.5°	919.3	920.6	965.8	1371.2	1770.1	1903.1	4967.0	14431.0	14747.3	13710.5	10855.9
75°	619.7	624.9	637.8	905.1	1630.7	1846.3	2646.8	10925.6	11148.9	11332.3	8973.4
77.5°	374.4	377.0	406.7	547.4	1124.6	1723.7	1793.4	7919.8	8095.4	7470.5	5562.2
80°	216.9	225.9	253.1	366.7	759.2	1295.0	1388.0	4856.0	5054.8	3320.8	1767.6
82.5°	95.5	102.0	138.2	213.0	442.9	1101.3	1083.3	1918.6	1890.2	925.7	613.3
85°	16.8	20.7	29.7	67.1	162.7	581.0	840.5	847.0	796.6	351.2	254.4
87.5°	0.0	0.0	0.0	0.0	0.0	3.9	126.5	227.2	225.9	99.4	87.8
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°	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8	3910.8
2.5°	3930.2	3895.4	3926.3	3930.2	3923.8	3918.6	3879.9	3846.3	3842.4	3806.3	3806.3
5°	3944.4	3912.1	3927.6	3897.9	3851.5	3803.7	3721.0	3664.2	3638.4	3591.9	3591.9
7.5°	3963.8	3930.2	3912.1	3838.5	3730.1	3625.5	3492.5	3381.5	3336.3	3270.4	3267.9
10°	3981.9	3939.2	3877.3	3734.0	3560.9	3394.4	3200.7	3043.2	2936.0	2857.3	2857.3
12.5°	3980.6	3925.0	3802.4	3590.6	3351.8	3110.3	2852.1	2614.5	2472.5	2349.9	2342.1
15°	3978.0	3901.8	3706.8	3424.1	3107.8	2773.4	2422.2	2112.3	1901.8	1781.8	1771.4
17.5°	3975.4	3872.1	3599.7	3234.3	2810.8	2355.0	1891.5	1555.8	1380.2	1306.6	1309.2
20°	3975.4	3838.5	3484.8	3016.1	2468.6	1854.1	1388.0	1143.9	1100.0	1103.9	1107.8
22.5°	3963.8	3797.2	3356.9	2778.5	2087.8	1363.4	1023.9	941.2	964.5	1000.6	1005.8
25°	3936.7	3728.8	3208.5	2515.1	1634.6	992.9	835.4	819.9	862.5	907.7	920.6
27.5°	3894.1	3650.0	3041.9	2206.5	1203.3	797.9	734.7	733.4	766.9	800.5	812.1
30°	3848.9	3562.2	2866.3	1863.1	871.5	694.6	670.1	670.1	686.9	707.5	705.0
32.5°	3795.9	3473.1	2677.8	1505.5	710.1	636.5	628.8	624.9	627.5	635.2	635.2
35°	3750.7	3394.4	2484.1	1127.2	636.5	604.3	596.5	587.5	583.6	578.4	581.0
37.5°	3734.0	3332.4	2284.0	849.6	600.4	581.0	568.1	555.2	546.1	543.6	542.3
40°	3761.1	3306.6	2083.9	699.8	574.6	556.5	542.3	525.5	517.7	517.7	517.7
42.5°	3866.9	3326.0	1879.9	632.7	556.5	535.8	515.2	499.7	497.1	499.7	501.0
45°	4060.6	3400.8	1668.1	599.1	541.0	515.2	490.6	479.0	479.0	481.6	481.6
47.5°	4406.6	3597.1	1459.0	578.4	525.5	498.4	472.6	460.9	459.6	462.2	462.2
50°	5005.7	3950.9	1270.5	564.2	513.9	485.5	459.6	444.1	440.3	439.0	439.0
52.5°	5761.0	4564.2	1150.4	553.9	499.7	471.3	445.4	424.8	417.0	413.2	413.2
55°	6673.9	5381.4	1150.4	546.1	481.6	454.5	424.8	404.1	392.5	387.3	387.3
57.5°	7708.1	6333.0	1349.2	539.7	467.4	435.1	402.8	382.2	369.3	361.5	361.5
60°	8760.3	7338.8	1841.2	530.7	454.5	410.6	378.3	358.9	342.2	333.1	331.8
62.5°	9851.4	8446.6	2489.3	535.8	445.4	387.3	352.5	330.5	316.3	307.3	306.0
65°	10850.7	9501.5	3056.1	575.8	446.7	366.7	322.8	303.4	291.8	280.2	278.9
67.5°	11699.0	10083.8	2658.4	657.2	473.8	342.2	293.1	273.7	263.4	255.6	254.4
70°	11105.0	9195.5	1508.0	707.5	511.3	316.3	259.5	246.6	236.3	231.1	229.8
72.5°	9496.3	7785.5	1008.4	624.9	466.1	282.8	228.5	218.2	210.5	204.0	202.7
75°	7692.6	6174.2	770.8	512.6	362.8	229.8	196.3	188.5	180.8	174.3	173.0
77.5°	4551.2	3567.4	568.1	405.4	255.6	179.5	162.7	156.2	148.5	143.3	142.0
80°	1452.5	1239.5	360.2	278.9	169.1	138.2	125.2	120.1	112.3	105.9	104.6
82.5°	553.9	479.0	191.1	142.0	112.3	94.3	83.9	78.8	73.6	67.1	65.8
85°	245.3	229.8	105.9	76.2	60.7	46.5	41.3	38.7	32.3	27.1	25.8
87.5°	86.5	86.5	45.2	21.9	12.9	6.5	3.9	1.3	0.0	0.0	0.0
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)