

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: P637763

Luminaire Tested: GWS-SA4D-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637763  
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-SA4D-740-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

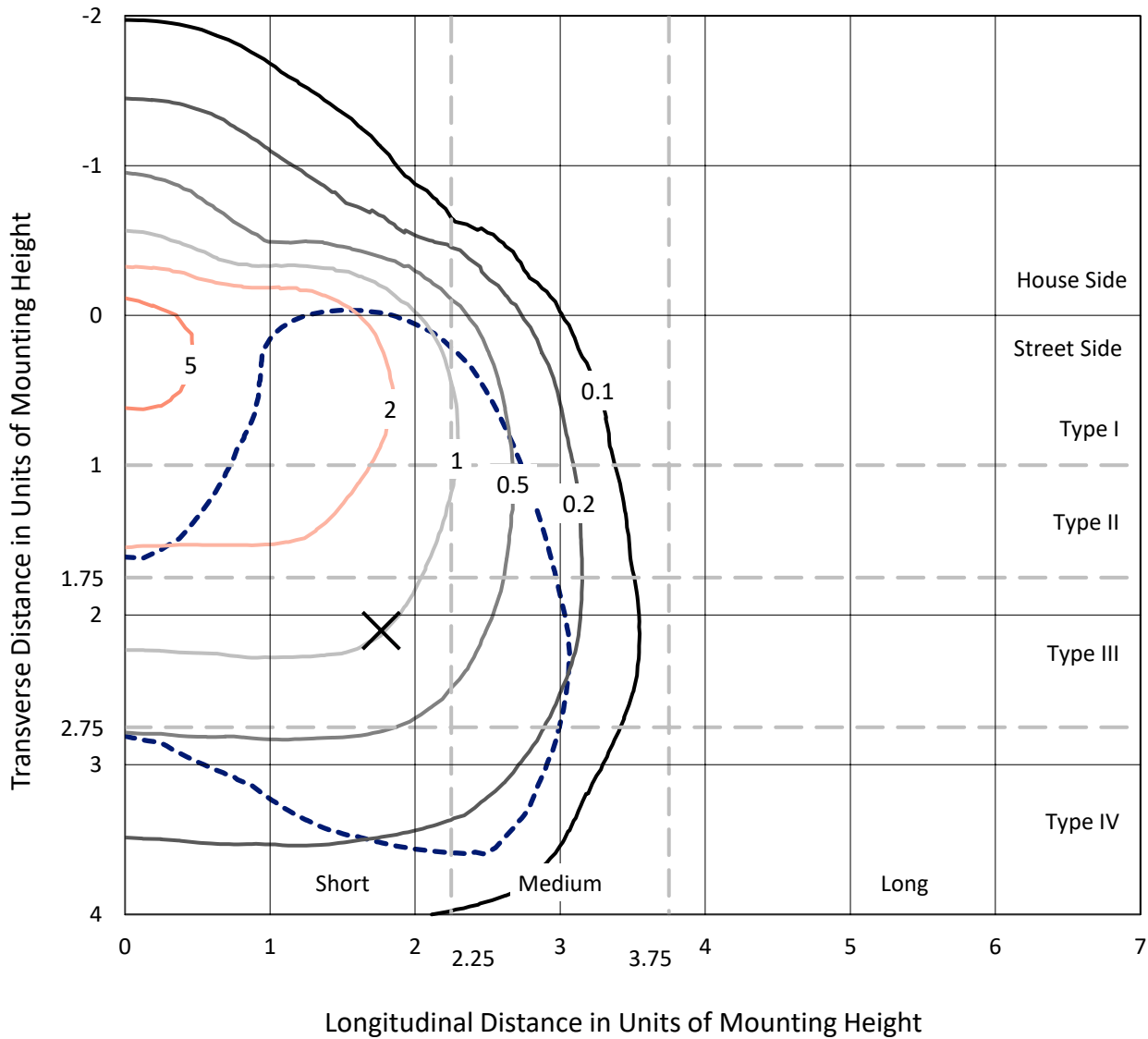
Lumens per Lamp: N/A  
Luminaire Lumens: 23519 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

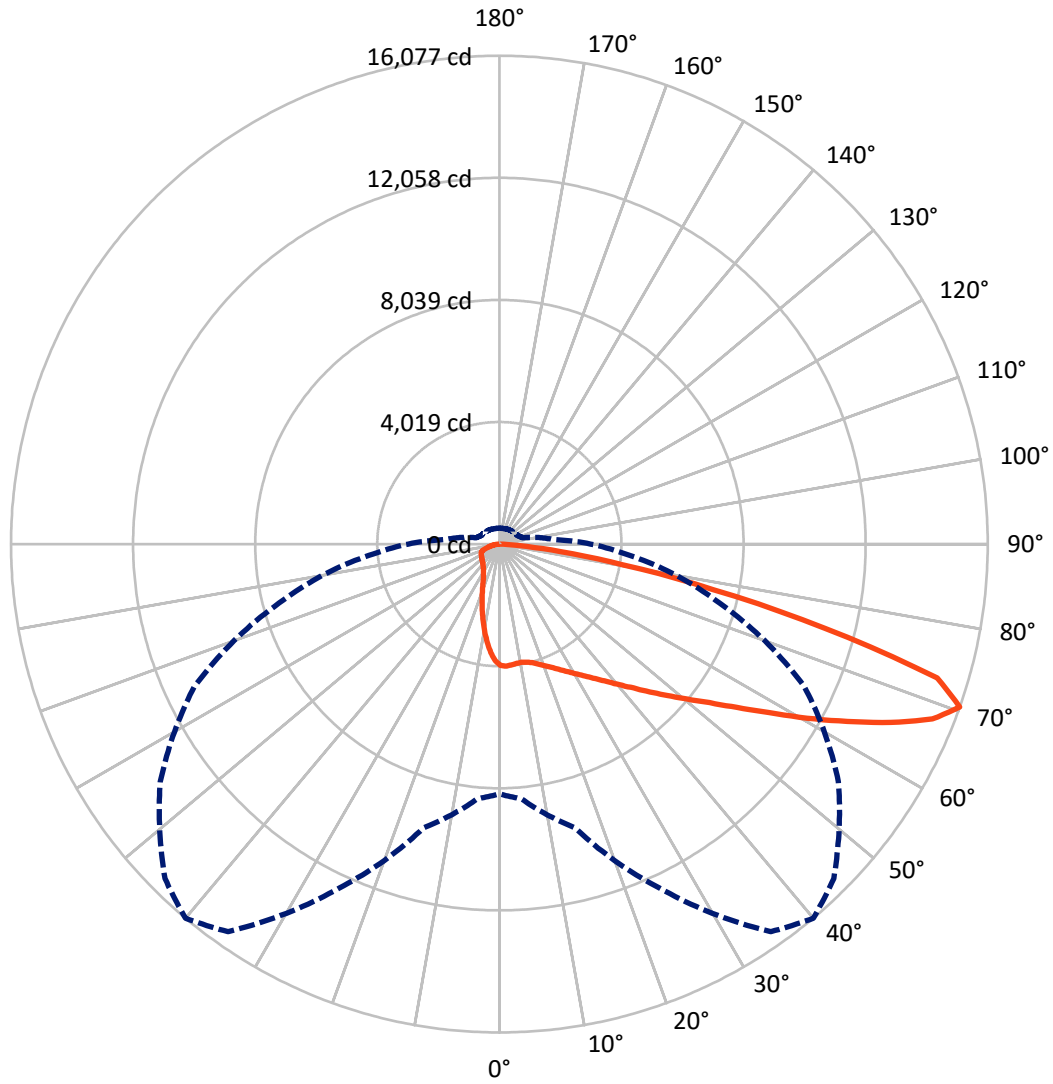
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	3622.5	0.0	3622.5
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	19896.5	0.0	19896.5
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	23519.0	0.0	23519.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.8	1.5
10°-20°	919.7	3.9
20°-30°	1444.0	6.1
30°-40°	2171.1	9.2
40°-50°	3351.2	14.2
50°-60°	4976.8	21.2
60°-70°	6273.1	26.7
70°-80°	3627.7	15.4
80°-90°	402.6	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°	23519.0	100.0
0°-180°	23519.0	100.0

**Coefficient of Utilization**



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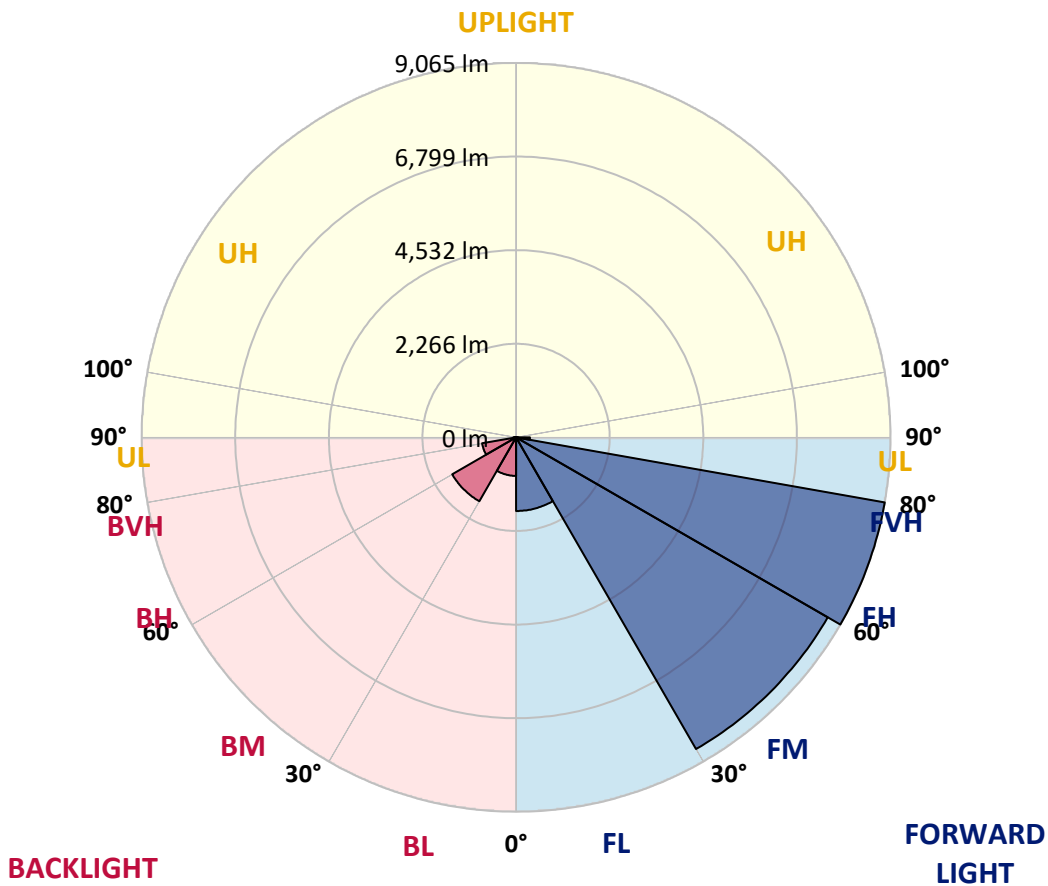
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1782.9	7.6			
FM (30°-60°)	8713.5	37.0			
FH (60°-80°)	9064.8	38.5			G4/12000
FVH (80°-90°)	335.3	1.4			G3/500
BL (0°-30°)	933.6	4.0	B2/1000		
BM (30°-60°)	1785.6	7.6	B2/2500		
BH (60°-80°)	836.1	3.6	B2/1000		G2/1000
BVH (80°-90°)	67.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8
2.5°	4018.4	4025.4	4030.7	4037.7	4034.2	4023.6	4032.4	4032.4	4013.1	3992.0	3972.7
5°	4023.6	4032.4	4030.7	4028.9	4014.9	3997.3	3997.3	3986.8	3953.4	3920.1	3888.5
7.5°	4013.1	4011.4	4009.6	4004.3	3988.5	3969.2	3965.7	3944.6	3900.8	3855.1	3809.5
10°	3965.7	3964.0	3969.2	3981.5	3978.0	3960.4	3960.4	3941.1	3890.2	3834.0	3774.4
12.5°	3927.1	3927.1	3948.2	3981.5	3993.8	3986.8	3988.5	3974.5	3916.6	3849.8	3779.6
15°	3932.4	3934.1	3979.8	4034.2	4057.0	4051.7	4053.5	4037.7	3972.7	3906.0	3811.2
17.5°	3967.5	3976.2	4055.2	4130.7	4160.6	4153.5	4141.3	4114.9	4041.2	3965.7	3849.8
20°	4041.2	4055.2	4157.1	4251.9	4287.0	4271.2	4250.1	4197.4	4116.7	4034.2	3892.0
22.5°	4186.9	4195.7	4308.0	4401.1	4429.2	4409.9	4367.7	4292.2	4199.2	4113.2	3942.9
25°	4392.3	4402.8	4509.9	4595.9	4588.9	4566.1	4508.2	4415.1	4304.5	4213.2	4016.6
27.5°	4636.3	4653.9	4759.2	4827.7	4782.0	4748.7	4683.7	4571.4	4446.7	4364.2	4129.0
30°	4903.2	4910.2	4999.7	5068.2	4998.0	4952.3	4873.3	4752.2	4639.8	4578.4	4297.5
32.5°	5161.2	5168.2	5245.5	5284.1	5210.4	5177.0	5108.5	4980.4	4901.4	4868.0	4548.5
35°	5433.3	5431.6	5494.8	5528.1	5452.6	5438.6	5368.4	5270.1	5256.0	5299.9	4915.4
37.5°	5705.4	5689.6	5723.0	5766.9	5724.7	5738.8	5693.1	5659.8	5714.2	5828.3	5403.5
40°	5923.1	5923.1	5958.2	6012.6	6026.7	6088.1	6061.8	6105.7	6281.2	6553.3	6007.4
42.5°	6116.2	6118.0	6191.7	6276.0	6377.8	6472.6	6493.6	6607.8	6971.1	7397.7	6765.8
45°	6318.1	6319.9	6419.9	6542.8	6758.7	6939.5	6981.7	7238.0	7757.6	8277.3	7589.1
47.5°	6551.6	6532.3	6671.0	6876.4	7183.6	7443.4	7552.2	7915.6	8572.2	9211.2	8365.0
50°	6814.9	6774.5	6929.0	7283.6	7662.8	8019.2	8201.8	8617.8	9446.4	10073.1	9095.3
52.5°	7111.6	7088.8	7250.3	7682.1	8261.5	8672.2	8919.8	9465.7	10296.1	10931.6	9674.6
55°	7480.2	7425.8	7659.3	8208.8	8963.7	9486.8	9780.0	10304.9	11224.8	11711.0	10117.0
57.5°	7884.0	7824.3	8136.8	8867.1	9876.5	10450.6	10817.5	11249.3	12099.0	12307.9	10376.8
60°	8319.4	8300.1	8670.5	9639.5	10964.9	11632.0	11897.1	12288.6	12859.1	12653.7	10311.9
62.5°	8717.9	8710.9	9249.8	10476.9	12118.3	12852.1	13062.8	13166.4	13406.9	12630.9	9795.8
65°	9137.5	9197.1	9925.7	11447.7	13440.2	14160.0	14247.8	13984.4	13591.2	12032.3	8739.0
67.5°	9190.1	9306.0	10350.5	12357.1	14693.7	15373.0	15302.8	14295.2	13047.0	10366.3	6850.0
70°	8219.3	8421.2	9672.9	12495.8	15576.7	16077.0	15569.7	13626.3	11072.0	7510.1	4308.0
72.5°	6867.6	7041.4	8147.3	10656.0	14437.4	15074.6	14388.2	11533.7	7824.3	4308.0	2194.4
75°	5345.5	5547.4	6567.4	8470.4	10808.7	11063.3	10719.2	8043.8	4301.0	1776.6	997.1
77.5°	3261.7	3407.5	4200.9	5738.8	7562.8	7181.8	6086.4	4509.9	1887.2	851.4	616.2
80°	1443.0	1532.6	2069.8	3082.7	4369.5	4130.7	3256.5	1925.8	1032.2	540.7	430.1
82.5°	774.2	832.1	1020.0	1220.1	1918.8	2006.6	1627.4	1109.5	554.7	309.0	245.8
85°	340.6	373.9	463.5	442.4	630.2	619.7	625.0	761.9	265.1	142.2	159.8
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	19.3	101.8	26.3	42.1	36.9
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°	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8
2.5°	3951.7	3920.1	3911.3	3900.8	3881.4	3848.1	3823.5	3795.4	3783.1	3769.1	3770.8
5°	3853.4	3814.7	3777.9	3730.5	3670.8	3604.1	3558.4	3505.8	3477.7	3451.3	3458.4
7.5°	3769.1	3709.4	3633.9	3533.9	3426.8	3307.4	3210.8	3135.3	3084.4	3049.3	3066.9
10°	3716.4	3646.2	3514.5	3351.3	3170.5	2987.9	2849.2	2719.3	2638.5	2575.3	2571.8
12.5°	3705.9	3614.6	3423.3	3186.3	2924.7	2680.7	2477.0	2301.5	2194.4	2115.4	2145.2
15°	3716.4	3600.6	3344.3	3033.5	2703.5	2373.5	2120.7	1918.8	1790.6	1718.6	1713.4
17.5°	3728.7	3586.5	3254.7	2868.5	2471.8	2094.3	1801.2	1587.0	1455.3	1383.3	1385.1
20°	3739.2	3565.5	3149.4	2687.7	2236.5	1834.5	1530.8	1327.2	1209.5	1156.9	1165.7
22.5°	3756.8	3544.4	3037.0	2494.6	1996.0	1583.5	1316.6	1151.6	1081.4	1046.3	1048.0
25°	3790.2	3532.1	2921.2	2283.9	1759.0	1383.3	1169.2	1058.6	1014.7	993.6	991.9
27.5°	3858.6	3542.6	2800.0	2080.3	1544.9	1230.6	1074.4	1002.4	972.6	958.5	956.8
30°	3972.7	3584.8	2694.7	1873.1	1360.5	1111.2	1009.4	965.5	948.0	935.7	933.9
32.5°	4146.5	3663.8	2580.6	1680.0	1211.3	1023.5	958.5	935.7	923.4	916.4	916.4
35°	4409.9	3807.7	2468.3	1511.5	1095.4	955.0	918.1	909.4	898.8	895.3	898.8
37.5°	4789.0	4037.7	2366.4	1364.0	1012.9	902.3	874.2	877.8	869.0	874.2	879.5
40°	5270.1	4344.9	2280.4	1242.9	951.5	863.7	835.6	847.9	842.6	847.9	856.7
42.5°	5879.2	4725.8	2215.5	1148.1	907.6	832.1	805.8	818.1	814.6	821.6	830.4
45°	6558.6	5227.9	2185.6	1081.4	876.0	809.3	781.2	790.0	786.5	791.7	800.5
47.5°	7209.9	5684.4	2211.9	1042.8	849.7	790.0	760.1	763.6	761.9	760.1	765.4
50°	7771.7	6047.7	2287.4	1030.5	832.1	770.7	742.6	744.3	739.1	728.5	732.0
52.5°	8229.9	6339.2	2333.1	1030.5	823.3	749.6	723.3	725.0	714.5	700.5	702.2
55°	8531.8	6456.8	2296.2	1028.7	819.8	732.0	704.0	705.7	695.2	677.6	679.4
57.5°	8617.8	6342.7	2141.7	1009.4	816.3	718.0	684.7	688.2	681.1	661.8	661.8
60°	8377.3	5924.9	1859.1	965.5	807.5	709.2	670.6	675.9	672.4	653.1	653.1
62.5°	7747.1	5182.3	1522.0	898.8	783.0	698.7	658.3	668.9	677.6	667.1	665.3
65°	6567.4	4151.8	1237.6	825.1	751.4	681.1	640.8	667.1	686.4	700.5	700.5
67.5°	4927.7	2972.1	1009.4	747.8	704.0	646.0	617.9	642.5	656.6	665.3	670.6
70°	3003.7	1748.5	795.2	658.3	635.5	593.4	572.3	547.7	528.4	524.9	526.7
72.5°	1469.4	1000.6	646.0	560.0	542.5	503.8	456.4	445.9	437.1	431.9	430.1
75°	809.3	696.9	533.7	465.2	433.6	386.2	375.7	358.1	354.6	347.6	349.3
77.5°	572.3	549.5	440.6	377.4	330.0	305.5	310.7	298.4	298.4	293.2	291.4
80°	430.1	431.9	338.8	275.6	244.0	235.2	240.5	240.5	237.0	235.2	233.5
82.5°	272.1	307.2	228.2	177.3	173.8	175.6	173.8	172.0	175.6	170.3	168.5
85°	187.8	221.2	138.7	105.3	105.3	103.6	107.1	105.3	108.8	103.6	103.6
87.5°	42.1	98.3	50.9	31.6	33.4	31.6	33.4	35.1	38.6	40.4	40.4
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)