

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: P637862

Luminaire Tested: GWS-SA4D-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-760-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

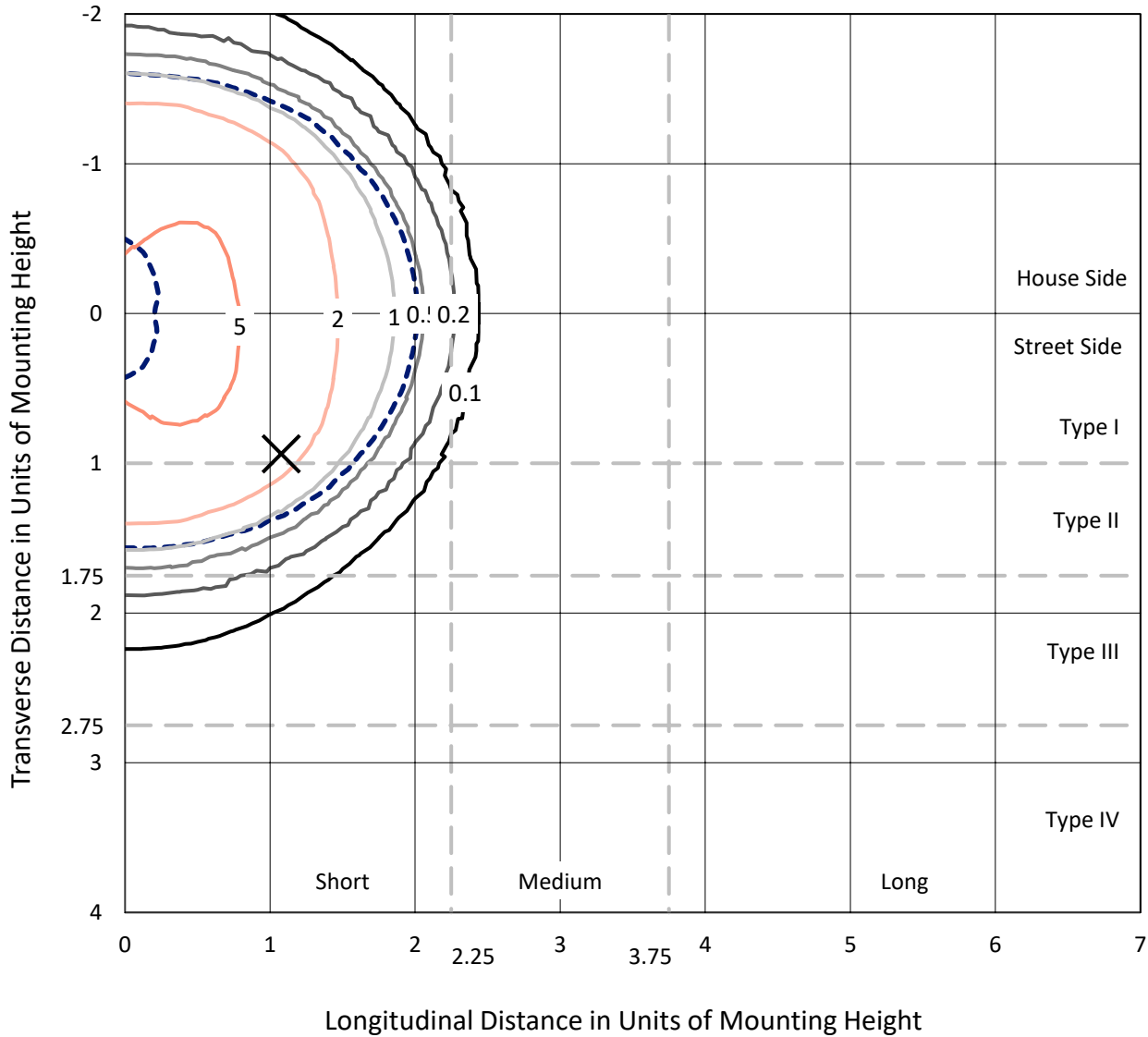
Lumens per Lamp: N/A  
Luminaire Lumens: 21780 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

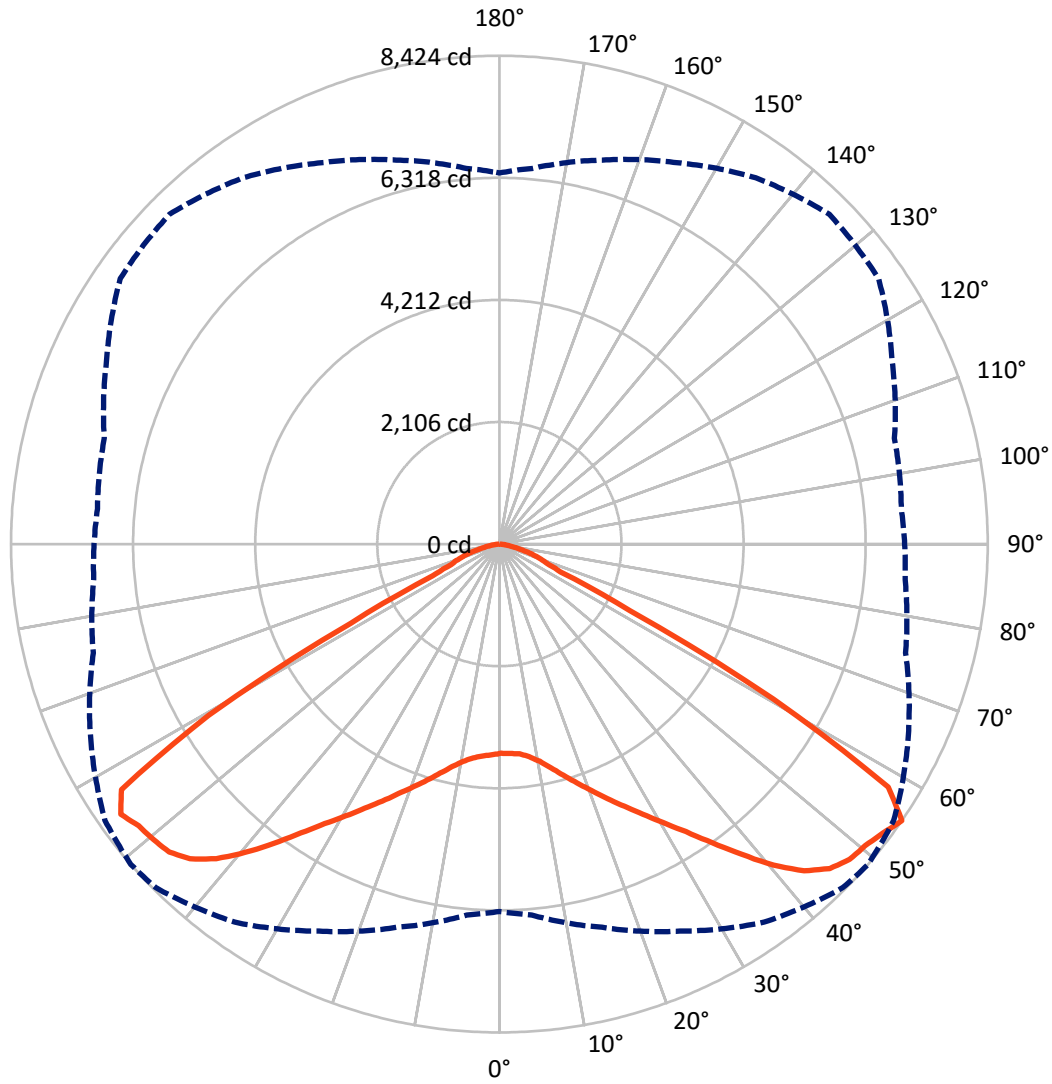
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10783.2	0.0	10783.2
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	10996.8	0.0	10996.8
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	21780.0	0.0	21780.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.0	1.6
10°-20°	1160.9	5.3
20°-30°	2211.2	10.2
30°-40°	3748.5	17.2
40°-50°	5641.2	25.9
50°-60°	6174.8	28.4
60°-70°	1952.5	9.0
70°-80°	468.6	2.2
80°-90°	70.3	0.3
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°	21780.0	100.0
0°-180°	21780.0	100.0

**Coefficient of Utilization**



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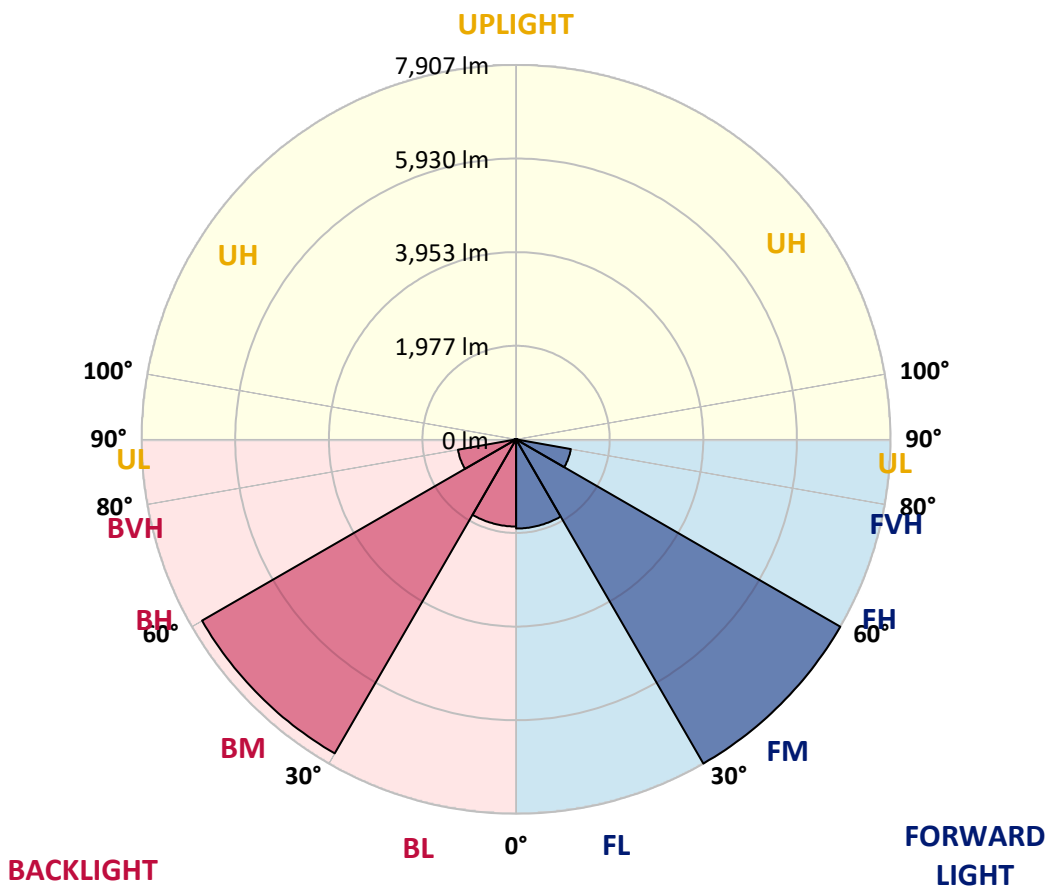
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1883.1	8.6			
FM (30°-60°)	7906.7	36.3			
FH (60°-80°)	1174.5	5.4			G1/1800
FVH (80°-90°)	32.6	0.1			G1/100
BL (0°-30°)	1841.0	8.5	B3/2500		
BM (30°-60°)	7657.7	35.2	B4/8500		
BH (60°-80°)	1246.6	5.7	B3/2500		G1/1800
BVH (80°-90°)	37.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0
2.5°	3554.9	3558.4	3565.5	3577.9	3590.3	3608.0	3615.1	3623.9	3622.2	3632.8	3632.8
5°	3537.1	3542.5	3553.1	3570.8	3592.0	3625.7	3634.6	3655.8	3677.1	3703.6	3712.5
7.5°	3558.4	3565.5	3577.9	3606.2	3638.1	3682.4	3700.1	3735.5	3776.3	3824.1	3843.6
10°	3599.1	3608.0	3629.2	3675.3	3726.7	3794.0	3809.9	3854.2	3919.7	3985.3	4024.2
12.5°	3645.2	3659.4	3698.3	3770.9	3847.1	3935.7	3960.5	4015.4	4086.2	4171.2	4224.4
15°	3698.3	3710.7	3770.9	3873.7	3992.3	4109.2	4137.6	4190.7	4270.4	4353.7	4428.1
17.5°	3809.9	3831.2	3902.0	4020.7	4158.8	4297.0	4328.9	4389.1	4452.9	4518.4	4589.2
20°	3962.2	3979.9	4070.3	4217.3	4380.2	4506.0	4537.9	4591.0	4621.1	4654.8	4715.0
22.5°	4114.6	4139.4	4242.1	4415.7	4607.0	4743.3	4768.1	4817.7	4796.5	4785.9	4824.8
25°	4304.1	4337.7	4438.7	4628.2	4823.1	4991.3	5010.8	5053.3	5017.9	4963.0	4961.2
27.5°	4539.7	4569.8	4674.3	4869.1	5062.2	5237.5	5274.7	5331.4	5253.5	5186.2	5138.3
30°	4819.5	4839.0	4954.1	5161.4	5359.7	5526.2	5574.1	5630.7	5572.3	5460.7	5412.9
32.5°	5145.4	5172.0	5304.8	5522.7	5699.8	5866.3	5914.1	5985.0	5921.2	5795.5	5735.2
35°	5536.9	5563.4	5703.4	5940.7	6121.4	6293.2	6326.8	6385.3	6305.6	6160.3	6112.5
37.5°	5961.9	5995.6	6172.7	6397.7	6587.2	6787.3	6789.1	6806.8	6693.5	6512.8	6459.7
40°	6440.2	6484.5	6661.6	6895.4	7123.9	7286.8	7285.1	7235.5	7044.2	6764.3	6682.8
42.5°	6913.1	6948.5	7127.4	7368.3	7596.8	7750.9	7704.8	7584.4	7308.1	6927.3	6819.2
45°	7254.9	7281.5	7469.3	7740.3	7972.3	8067.9	7984.7	7839.5	7465.7	7030.0	6870.6
47.5°	7416.1	7451.6	7641.1	7910.3	8172.4	8227.3	8128.2	7991.8	7557.8	7125.6	6911.3
50°	7329.3	7375.4	7589.7	7839.5	8135.2	8248.6	8177.8	8041.4	7655.2	7219.5	6983.9
52.5°	7104.4	7148.7	7419.7	7722.5	8057.3	8282.3	8280.5	8168.9	7766.8	7246.1	6987.5
55°	6335.7	6422.5	6844.0	7366.5	7961.7	8381.4	8424.0	8305.3	7784.5	7253.2	7024.7
57.5°	4123.4	4275.7	4676.0	5356.2	6550.0	7623.4	7910.3	7938.6	7657.0	7223.1	7031.8
60°	1721.6	1843.8	2160.9	2612.6	3599.1	4876.2	5432.4	5990.3	6663.4	6907.8	6966.2
62.5°	1069.8	1080.4	1112.3	1215.1	1544.5	2168.0	2525.8	3048.3	4049.0	4901.0	5294.2
65°	965.3	970.6	977.7	970.6	986.6	1062.7	1158.4	1340.8	1748.2	2171.5	2674.6
67.5°	850.2	857.3	862.6	857.3	862.6	866.1	876.8	892.7	967.1	1027.3	1073.4
70°	687.2	697.9	706.7	703.2	724.4	724.4	735.1	747.5	784.7	828.9	860.8
72.5°	524.3	515.4	526.1	529.6	549.1	559.7	575.6	589.8	632.3	658.9	699.6
75°	340.1	331.2	347.2	356.0	382.6	396.8	410.9	425.1	455.2	472.9	511.9
77.5°	184.2	182.4	198.4	210.8	239.1	256.8	267.5	278.1	302.9	308.2	333.0
80°	106.3	106.3	116.9	125.8	143.5	163.0	173.6	182.4	200.1	205.5	216.1
82.5°	58.5	58.5	63.8	69.1	83.2	93.9	102.7	109.8	125.8	131.1	136.4
85°	28.3	26.6	30.1	33.7	39.0	44.3	49.6	53.1	65.5	69.1	76.2
87.5°	3.5	3.5	3.5	5.3	7.1	10.6	12.4	12.4	19.5	23.0	26.6
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°	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0
2.5°	3643.4	3620.4	3634.6	3639.9	3639.9	3634.6	3611.5	3604.4	3593.8	3577.9	3577.9
5°	3724.9	3707.2	3710.7	3701.9	3680.6	3654.0	3611.5	3590.3	3572.6	3553.1	3551.3
7.5°	3864.8	3841.8	3838.2	3804.6	3747.9	3691.2	3627.5	3588.5	3561.9	3537.1	3535.4
10°	4047.3	4026.0	3999.4	3932.1	3848.9	3765.6	3678.8	3625.7	3586.7	3551.3	3549.5
12.5°	4250.9	4226.1	4176.6	4077.4	3972.9	3891.4	3792.2	3710.7	3652.3	3604.4	3595.6
15°	4472.3	4436.9	4351.9	4235.0	4132.3	4045.5	3939.2	3822.3	3733.7	3657.6	3648.7
17.5°	4642.4	4596.3	4504.2	4394.4	4309.4	4222.6	4084.4	3937.4	3809.9	3714.3	3700.1
20°	4759.3	4722.1	4617.6	4536.1	4486.5	4410.4	4249.2	4082.7	3939.2	3818.8	3811.7
22.5°	4867.3	4823.1	4720.3	4672.5	4672.5	4621.1	4467.0	4270.4	4102.2	3962.2	3944.5
25°	4989.5	4941.7	4863.8	4858.5	4883.3	4860.2	4674.3	4463.5	4266.9	4109.2	4080.9
27.5°	5159.6	5106.4	5060.4	5092.3	5127.7	5102.9	4895.7	4651.2	4444.0	4284.6	4259.8
30°	5430.6	5365.0	5322.5	5361.5	5430.6	5358.0	5133.0	4874.4	4665.4	4490.1	4477.7
32.5°	5745.9	5671.5	5627.2	5689.2	5751.2	5637.8	5414.6	5166.7	4947.0	4762.8	4741.6
35°	6124.9	6031.0	5965.5	6048.7	6112.5	6000.9	5779.5	5543.9	5299.5	5108.2	5079.9
37.5°	6461.4	6348.1	6303.8	6420.7	6505.7	6433.1	6192.2	5970.8	5703.4	5494.3	5481.9
40°	6705.9	6594.3	6562.4	6755.5	6904.2	6886.5	6670.4	6417.2	6165.6	5924.8	5901.7
42.5°	6812.1	6734.2	6741.3	7001.7	7231.9	7345.3	7152.2	6881.2	6638.6	6388.8	6372.9
45°	6835.2	6787.3	6844.0	7169.9	7472.8	7704.8	7540.1	7313.4	7038.9	6798.0	6790.9
47.5°	6860.0	6833.4	6920.2	7265.6	7625.1	7894.4	7802.3	7568.5	7290.4	7054.8	7037.1
50°	6918.4	6907.8	7005.2	7332.9	7697.8	7945.7	7841.2	7609.2	7324.0	7092.0	7049.5
52.5°	6936.1	6918.4	7058.3	7437.4	7818.2	7944.0	7719.0	7416.1	7129.2	6870.6	6826.3
55°	6991.0	6959.2	7054.8	7476.3	7984.7	8046.7	7711.9	7258.5	6858.2	6505.7	6401.2
57.5°	7005.2	6969.8	7031.8	7412.6	7804.0	7749.1	6778.5	5857.4	5102.9	4711.5	4755.7
60°	6929.0	6939.7	6833.4	6790.9	6259.5	5526.2	4150.0	3317.5	2605.5	2304.4	2369.9
62.5°	5274.7	5319.0	4955.9	4309.4	3314.0	2626.7	1737.6	1349.7	1142.4	1089.3	1098.2
65°	2662.2	2722.4	2345.1	1939.5	1441.8	1165.5	1007.8	975.9	965.3	952.9	952.9
67.5°	1053.9	1071.6	1057.4	990.1	921.0	896.2	889.2	885.6	873.2	866.1	867.9
70°	846.6	860.8	839.6	797.1	768.7	766.9	763.4	756.3	747.5	747.5	752.8
72.5°	690.8	704.9	674.8	648.3	627.0	611.1	602.2	596.9	584.5	584.5	589.8
75°	508.3	517.2	492.4	488.9	465.8	449.9	435.7	428.6	412.7	405.6	410.9
77.5°	338.3	336.5	324.1	324.1	315.3	295.8	279.9	263.9	242.7	228.5	232.0
80°	219.6	219.6	214.3	214.3	205.5	189.5	170.0	154.1	141.7	131.1	131.1
82.5°	139.9	138.2	136.4	134.6	131.1	115.1	101.0	90.3	81.5	74.4	76.2
85°	77.9	77.9	74.4	74.4	67.3	58.5	51.4	44.3	39.0	37.2	37.2
87.5°	26.6	26.6	24.8	24.8	21.3	15.9	12.4	10.6	8.9	7.1	8.9
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)