

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: P642153

Luminaire Tested: GWS-SA6C-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28829.7 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

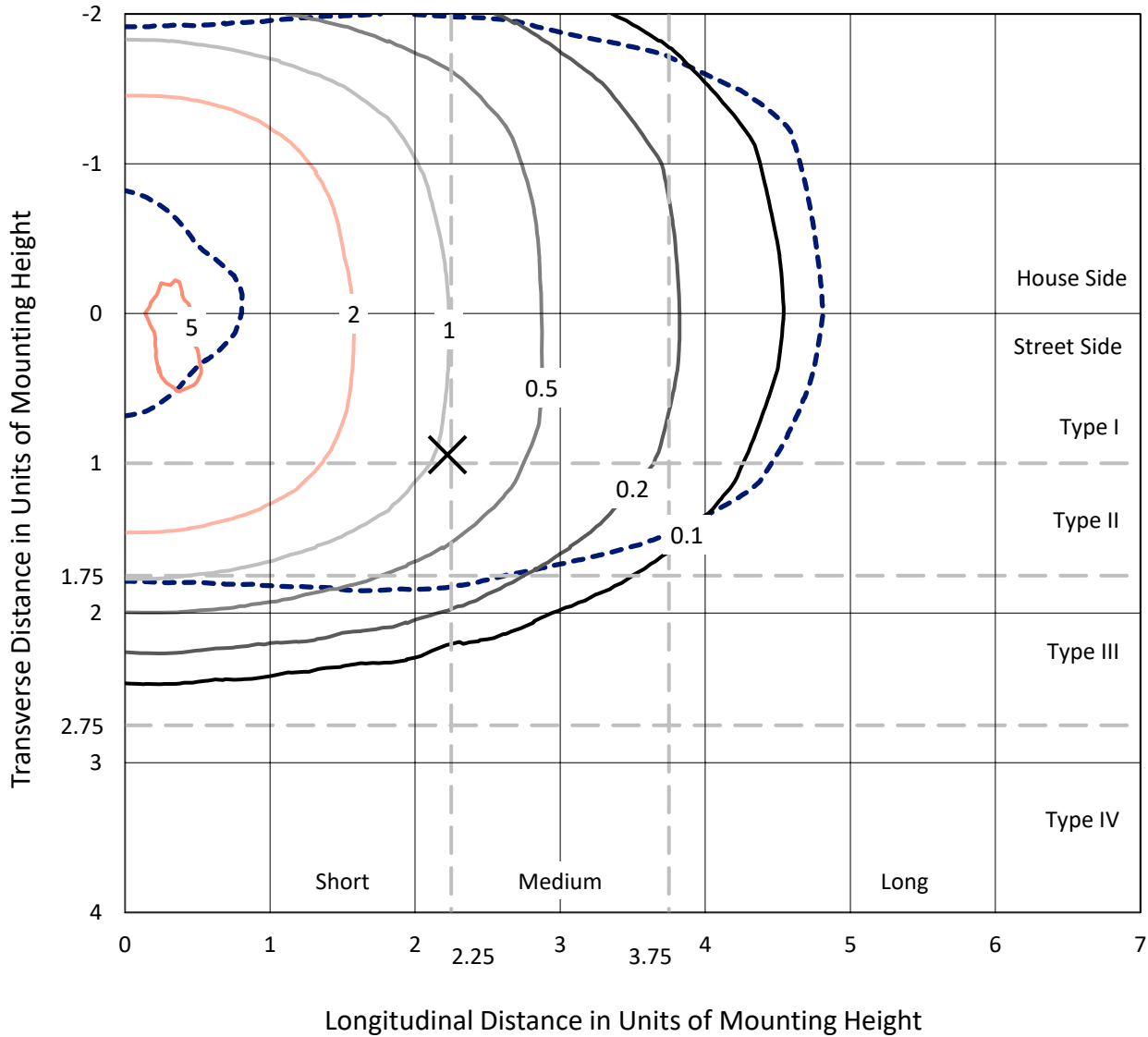
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

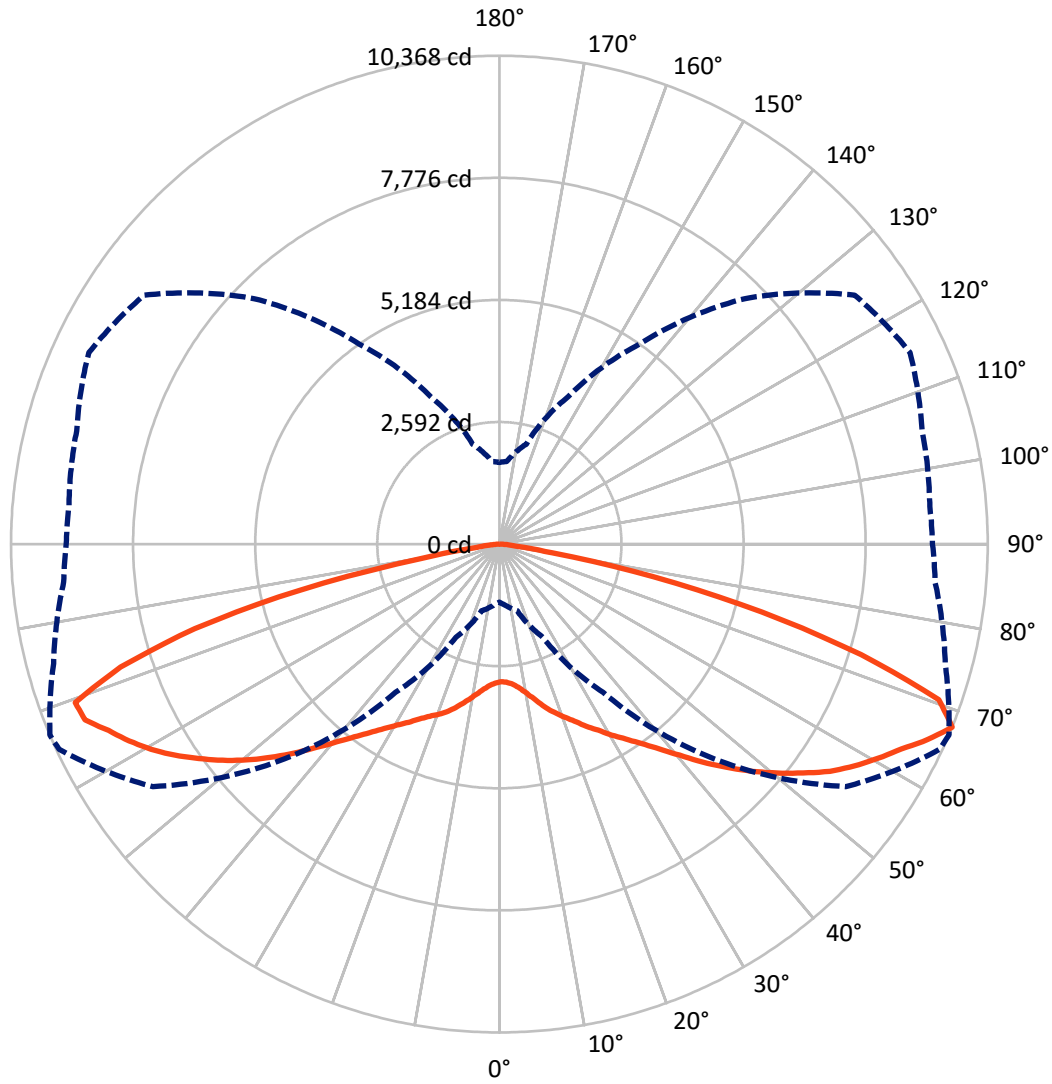
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14255.8	0.0	14255.8
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	14573.9	0.0	14573.9
	% Fixture	50.6	0.0	50.6
Total	Lumens	28829.7	0.0	28829.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	1.0
10°-20°	967.6	3.4
20°-30°	1898.4	6.6
30°-40°	3234.3	11.2
40°-50°	5193.6	18.0
50°-60°	7057.0	24.5
60°-70°	6750.5	23.4
70°-80°	3209.4	11.1
80°-90°	232.6	0.8
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°	28829.7	100.0
0°-180°	28829.7	100.0

Coefficient of Utilization



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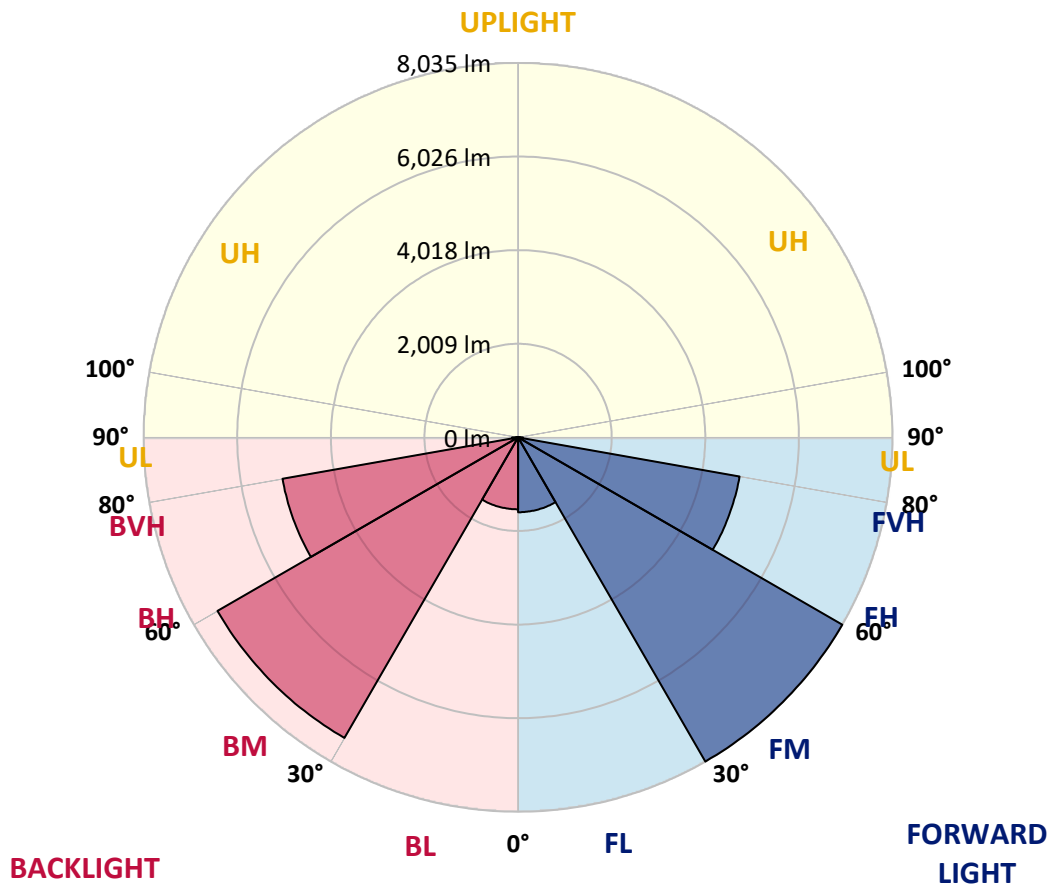
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.5	5.6			
FM (30°-60°)	8035.1	27.9			
FH (60°-80°)	4826.8	16.7			G2/5000
FVH (80°-90°)	104.5	0.4			G2/225
BL (0°-30°)	1544.9	5.4	B3/2500		
BM (30°-60°)	7449.7	25.8	B4/8500		
BH (60°-80°)	5133.1	17.8	B5		G5
BVH (80°-90°)	128.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2
2.5°	2858.9	2863.0	2869.0	2881.0	2893.1	2911.1	2929.2	2927.2	2935.2	2941.3	2947.3
5°	2842.9	2846.9	2856.9	2873.0	2891.1	2921.2	2959.3	2975.4	2987.4	3009.5	3029.6
7.5°	2877.0	2885.0	2899.1	2921.2	2949.3	2987.4	3039.6	3067.7	3085.8	3126.0	3160.1
10°	2923.2	2933.2	2961.3	3003.5	3045.7	3103.9	3170.1	3212.3	3224.3	3276.5	3340.8
12.5°	2967.4	2979.4	3025.6	3101.9	3178.2	3256.5	3334.8	3387.0	3391.0	3461.2	3533.5
15°	3037.6	3047.7	3109.9	3208.3	3324.7	3433.1	3529.5	3565.6	3581.7	3631.9	3722.2
17.5°	3192.2	3204.3	3284.6	3391.0	3513.4	3627.9	3724.2	3754.4	3754.4	3796.5	3870.8
20°	3358.8	3370.9	3477.3	3613.8	3762.4	3878.8	3953.1	3925.0	3915.0	3927.0	3979.2
22.5°	3545.6	3567.6	3670.0	3828.6	4011.3	4153.9	4192.0	4107.7	4079.6	4051.5	4063.5
25°	3784.5	3810.6	3911.0	4079.6	4258.3	4408.9	4431.0	4300.5	4284.4	4186.0	4149.9
27.5°	4059.5	4079.6	4204.1	4370.7	4537.4	4663.8	4687.9	4527.3	4473.1	4336.6	4252.3
30°	4414.9	4433.0	4541.4	4706.0	4850.6	4938.9	4969.0	4748.2	4706.0	4497.2	4366.7
32.5°	4802.4	4810.4	4920.8	5079.4	5207.9	5292.2	5250.1	4993.1	4930.9	4696.0	4517.3
35°	5246.1	5246.1	5388.6	5517.1	5619.5	5643.6	5563.3	5270.2	5197.9	4942.9	4720.1
37.5°	5681.7	5693.8	5826.3	5978.9	6069.2	6065.2	5918.6	5597.4	5515.1	5238.0	4991.1
40°	6153.5	6179.6	6312.1	6482.8	6569.1	6557.1	6332.2	5974.9	5890.5	5563.3	5322.4
42.5°	6587.2	6629.4	6784.0	6958.6	7053.0	7045.0	6810.1	6408.5	6326.2	5956.8	5715.9
45°	6932.5	6976.7	7169.4	7412.4	7562.9	7548.9	7312.0	6858.2	6757.9	6370.4	6105.4
47.5°	7235.7	7281.9	7496.7	7753.7	7992.6	8016.7	7799.8	7312.0	7205.6	6814.1	6514.9
50°	7468.6	7490.7	7731.6	8012.7	8289.7	8424.2	8235.5	7767.7	7639.2	7251.7	6914.5
52.5°	7450.5	7480.6	7777.8	8159.2	8530.6	8751.5	8621.0	8197.4	8072.9	7651.3	7322.0
55°	7083.1	7113.2	7466.6	8022.7	8665.2	8990.4	8976.3	8606.9	8516.6	8058.8	7745.6
57.5°	6547.0	6613.3	6964.6	7564.9	8488.5	9181.1	9237.3	8980.4	8886.0	8458.4	8165.2
60°	5587.4	5675.7	6081.3	6860.2	7922.3	9116.9	9516.4	9295.6	9237.3	8829.8	8544.7
62.5°	4059.5	4123.8	4663.8	5685.8	7083.1	8659.1	9751.3	9620.8	9576.6	9163.1	8888.0
65°	2431.3	2577.9	3011.5	4021.4	5713.9	7795.8	9622.8	10046.4	10000.3	9506.4	9181.1
67.5°	1230.7	1297.0	1467.6	2180.3	3842.7	6450.7	8978.3	10311.4	10367.7	9799.5	9285.5
70°	762.9	781.0	829.2	1076.1	1919.3	4238.2	7342.1	9620.8	9895.9	9753.3	9014.5
72.5°	612.3	616.4	624.4	670.6	921.5	1981.6	4641.8	7534.8	8030.7	9108.8	8627.0
75°	507.9	510.0	512.0	526.0	574.2	809.1	2258.6	5177.8	5758.0	7741.6	7998.6
77.5°	407.6	397.5	405.6	411.6	423.6	451.7	779.0	2762.6	3350.8	5081.4	6185.7
80°	265.0	261.0	277.1	283.1	295.1	313.2	415.6	937.6	1138.4	1849.1	1967.5
82.5°	142.5	134.5	168.6	162.6	168.6	182.7	244.9	343.3	385.5	558.1	471.8
85°	44.2	44.2	46.2	54.2	66.3	64.2	106.4	168.6	186.7	238.9	176.7
87.5°	8.0	8.0	8.0	8.0	8.0	10.0	22.1	34.1	46.2	82.3	62.2
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°	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2	2919.2
2.5°	2959.3	2941.3	2951.3	2957.3	2955.3	2951.3	2931.2	2927.2	2917.2	2901.1	2897.1
5°	3047.7	3027.6	3029.6	3023.6	3003.5	2977.4	2933.2	2911.1	2893.1	2873.0	2871.0
7.5°	3186.2	3164.1	3158.1	3130.0	3073.8	3013.5	2943.3	2903.1	2873.0	2846.9	2842.9
10°	3362.9	3340.8	3320.7	3254.5	3162.1	3081.8	2989.4	2931.2	2887.0	2854.9	2848.9
12.5°	3559.6	3541.5	3491.4	3395.0	3284.6	3190.2	3095.8	3023.6	2959.3	2911.1	2905.1
15°	3778.5	3738.3	3662.0	3537.5	3433.1	3356.8	3242.4	3144.0	3041.6	2977.4	2963.3
17.5°	3931.0	3896.9	3806.6	3686.1	3603.8	3537.5	3403.0	3262.5	3124.0	3029.6	3009.5
20°	4039.5	4003.3	3900.9	3812.6	3786.5	3730.3	3573.7	3411.0	3250.4	3134.0	3107.9
22.5°	4117.8	4079.6	3975.2	3931.0	3967.2	3957.1	3804.6	3619.8	3429.1	3290.6	3258.5
25°	4192.0	4155.9	4063.5	4079.6	4176.0	4206.1	4041.5	3826.6	3609.8	3447.2	3409.0
27.5°	4262.3	4216.1	4174.0	4262.3	4398.8	4455.0	4280.4	4037.4	3802.5	3635.9	3605.8
30°	4370.7	4316.5	4310.5	4439.0	4655.8	4704.0	4511.3	4268.3	4035.4	3866.8	3828.6
32.5°	4507.2	4457.1	4461.1	4653.8	4904.8	4944.9	4780.3	4553.4	4320.5	4151.9	4099.7
35°	4691.9	4629.7	4663.8	4900.7	5153.7	5228.0	5095.5	4906.8	4679.9	4507.2	4449.0
37.5°	4946.9	4856.6	4926.8	5175.8	5430.8	5541.2	5438.8	5298.3	5073.4	4898.7	4844.5
40°	5272.2	5197.9	5226.0	5501.0	5764.1	5896.6	5832.3	5693.8	5470.9	5288.2	5226.0
42.5°	5657.6	5583.4	5573.3	5866.4	6129.4	6330.2	6268.0	6141.5	5910.6	5701.8	5641.6
45°	6035.1	5966.8	5980.9	6280.0	6575.2	6794.0	6731.8	6583.2	6332.2	6091.3	6043.1
47.5°	6428.6	6372.4	6384.4	6701.6	7026.9	7245.7	7167.4	6986.7	6693.6	6436.6	6378.4
50°	6832.1	6767.9	6786.0	7119.2	7470.6	7677.4	7556.9	7289.9	6966.7	6715.7	6665.5
52.5°	7233.7	7157.4	7203.6	7518.8	7882.2	8046.8	7823.9	7500.7	7187.5	6938.5	6882.3
55°	7695.4	7615.1	7564.9	7902.2	8261.6	8329.9	8024.7	7647.3	7275.8	6992.8	6958.6
57.5°	8117.1	8048.8	7954.4	8291.7	8556.7	8506.5	8179.3	7607.1	7061.0	6697.6	6649.4
60°	8494.5	8436.3	8354.0	8641.1	8761.5	8649.1	8054.8	7131.3	6531.0	6151.5	6129.4
62.5°	8841.8	8779.6	8703.3	8948.2	8932.2	8671.2	7488.6	6400.5	5597.4	5189.9	5153.7
65°	9116.9	9060.7	9038.6	9231.3	9205.2	8239.5	6607.3	5203.9	4089.6	3629.9	3615.8
67.5°	9195.2	9173.1	9291.5	9618.8	9211.2	7372.2	5181.8	3451.2	2196.4	1760.7	1734.6
70°	8902.1	8900.0	9239.3	9707.1	8376.0	5631.5	3057.7	1556.0	1104.2	979.7	963.7
72.5°	8520.6	8514.6	8783.6	8374.0	6211.8	3081.8	1286.9	833.2	690.6	656.5	656.5
75°	7894.2	7878.1	8080.9	6370.4	3493.4	1160.4	682.6	572.2	542.1	536.1	536.1
77.5°	6434.6	6300.1	5980.9	3937.1	1218.7	570.2	451.7	449.7	431.7	429.6	429.6
80°	2116.1	2116.1	2459.4	1501.7	538.1	351.3	319.2	335.3	317.2	305.2	303.2
82.5°	345.3	475.8	676.6	429.6	291.1	218.8	196.8	208.8	218.8	174.7	174.7
85°	136.5	178.7	261.0	200.8	134.5	88.3	94.4	104.4	92.4	80.3	78.3
87.5°	52.2	64.2	92.4	48.2	28.1	16.1	10.0	10.0	8.0	8.0	8.0
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)