

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: P640228

Luminaire Tested: GWS-SA5D-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640228
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-SA5D-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
RECTANGULAR WIDE OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30924.9 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 204.6
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

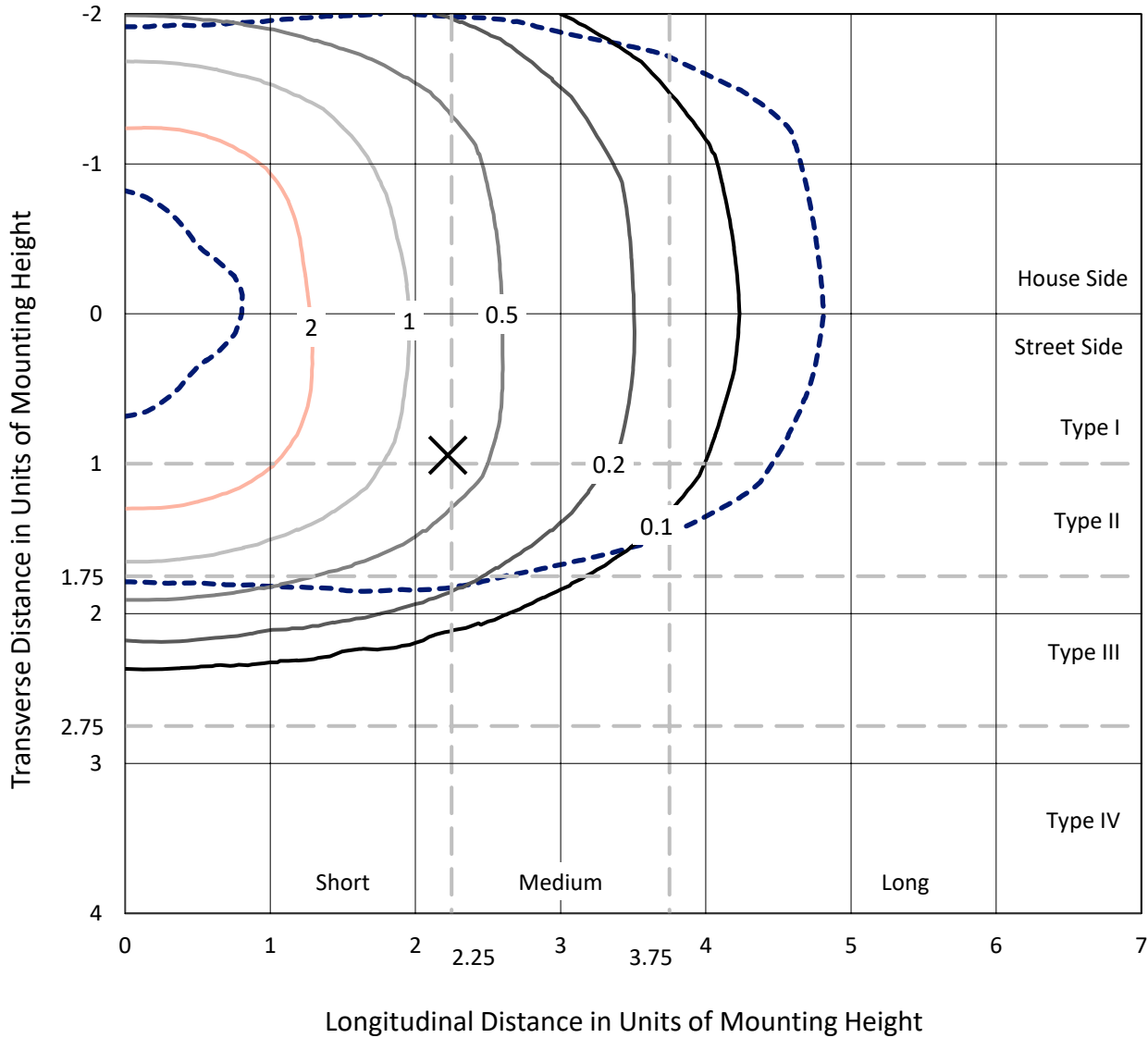


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Iso-Footcandle Lines of Horizontal Illumination

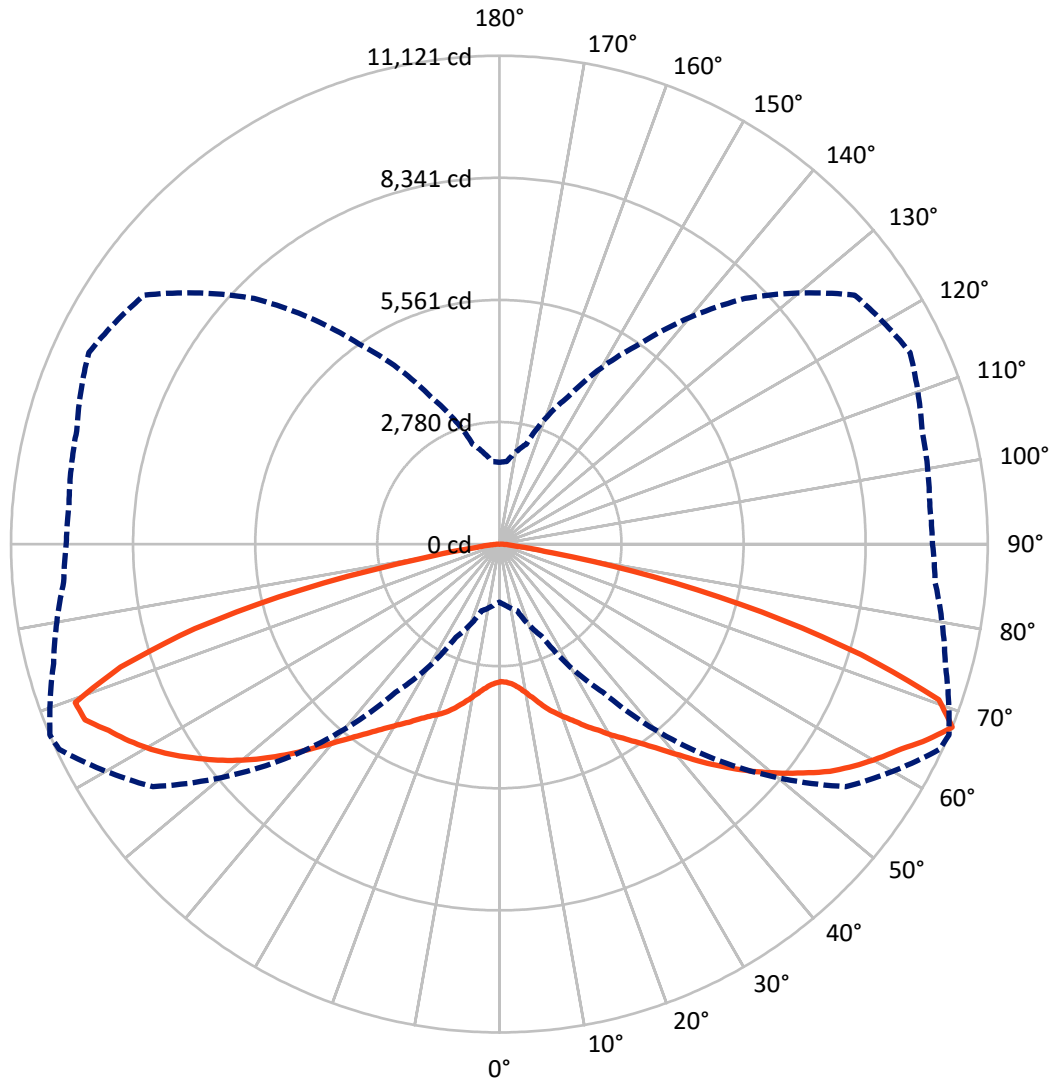
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	15291.8	0.0	15291.8
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	15633.1	0.0	15633.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	30924.9	0.0	30924.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.2	1.0
10°-20°	1037.9	3.4
20°-30°	2036.4	6.6
30°-40°	3469.3	11.2
40°-50°	5571.0	18.0
50°-60°	7569.8	24.5
60°-70°	7241.1	23.4
70°-80°	3442.7	11.1
80°-90°	249.5	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°	30924.9	100.0
0°-180°	30924.9	100.0

Coefficient of Utilization



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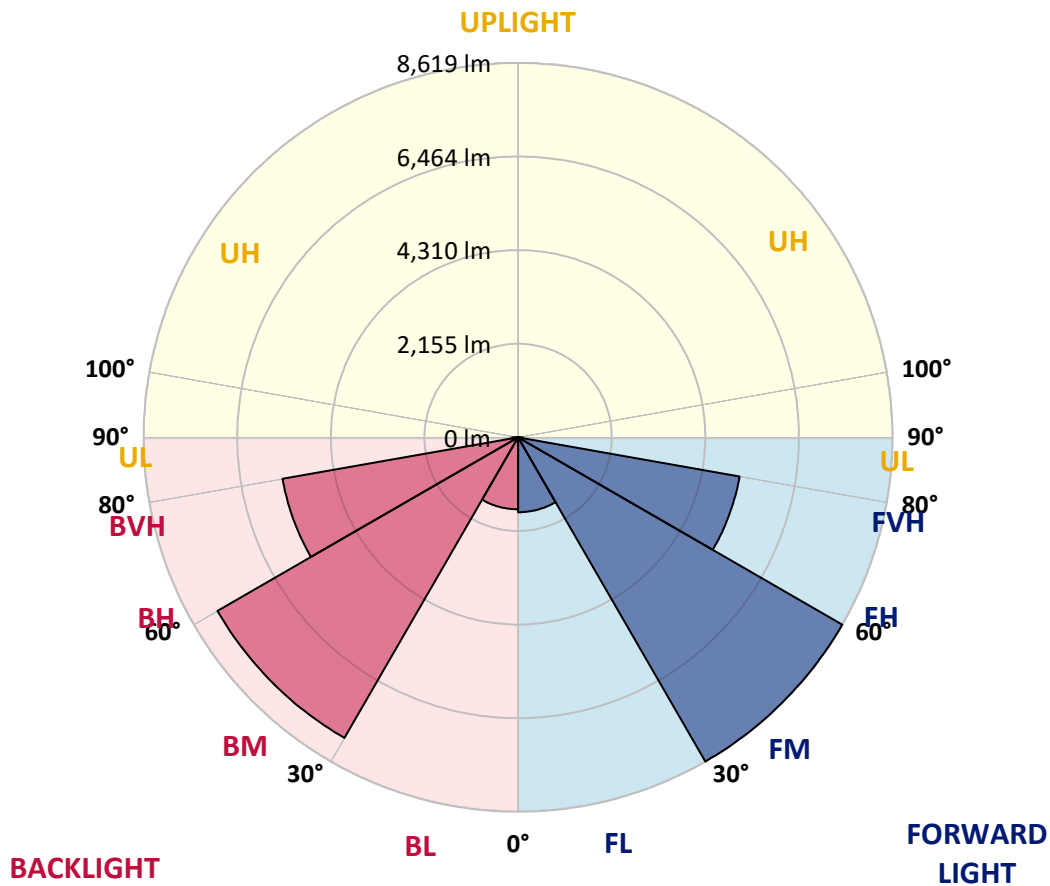
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.3	5.6			
FM (30°-60°)	8619.0	27.9			
FH (60°-80°)	5177.6	16.7			G3/7500
FVH (80°-90°)	112.1	0.4			G2/225
BL (0°-30°)	1657.2	5.4	B3/2500		
BM (30°-60°)	7991.1	25.8	B4/8500		
BH (60°-80°)	5506.1	17.8	B5		G5
BVH (80°-90°)	137.4	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°	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3
2.5°	3066.7	3071.0	3077.5	3090.4	3103.3	3122.7	3142.1	3139.9	3148.5	3155.0	3161.5
5°	3049.5	3053.8	3064.6	3081.8	3101.2	3133.5	3174.4	3191.6	3204.5	3228.2	3249.8
7.5°	3086.1	3094.7	3109.8	3133.5	3163.6	3204.5	3260.5	3290.7	3310.1	3353.1	3389.7
10°	3135.6	3146.4	3176.5	3221.8	3267.0	3329.4	3400.5	3445.7	3458.7	3514.7	3583.6
12.5°	3183.0	3195.9	3245.5	3327.3	3409.1	3493.1	3577.1	3633.1	3637.4	3712.8	3790.3
15°	3258.4	3269.1	3335.9	3441.4	3566.3	3682.6	3786.0	3824.8	3842.0	3895.8	3992.8
17.5°	3424.2	3437.1	3523.3	3637.4	3768.8	3891.5	3994.9	4027.2	4027.2	4072.4	4152.1
20°	3603.0	3615.9	3730.0	3876.5	4035.8	4160.7	4240.4	4210.3	4199.5	4212.4	4268.4
22.5°	3803.2	3826.9	3936.8	4106.9	4302.9	4455.8	4496.7	4406.2	4376.1	4345.9	4358.9
25°	4059.5	4087.5	4195.2	4376.1	4567.8	4729.3	4753.0	4613.0	4595.8	4490.2	4451.5
27.5°	4354.6	4376.1	4509.6	4688.4	4867.1	5002.8	5028.6	4856.3	4798.2	4651.8	4561.3
30°	4735.7	4755.1	4871.4	5048.0	5203.1	5297.8	5330.1	5093.2	5048.0	4824.0	4684.1
32.5°	5151.4	5160.0	5278.4	5448.6	5586.4	5676.9	5631.6	5356.0	5289.2	5037.2	4845.6
35°	5627.3	5627.3	5780.2	5918.1	6027.9	6053.7	5967.6	5653.2	5575.6	5302.1	5063.1
37.5°	6094.7	6107.6	6249.7	6413.4	6510.3	6506.0	6348.8	6004.2	5915.9	5618.7	5353.8
40°	6600.8	6628.7	6770.9	6953.9	7046.5	7033.6	6792.4	6409.1	6318.6	5967.6	5709.2
42.5°	7065.9	7111.2	7277.0	7464.3	7565.6	7556.9	7305.0	6874.3	6786.0	6389.7	6131.3
45°	7436.3	7483.7	7690.5	7951.1	8112.6	8097.5	7843.4	7356.7	7249.0	6833.3	6549.1
47.5°	7761.5	7811.1	8041.5	8317.2	8573.4	8599.3	8366.7	7843.4	7729.2	7309.3	6988.4
50°	8011.4	8035.0	8293.5	8595.0	8892.2	9036.5	8834.0	8332.2	8194.4	7778.8	7417.0
52.5°	7992.0	8024.3	8343.0	8752.2	9150.6	9387.5	9247.5	8793.1	8659.6	8207.3	7854.1
55°	7597.9	7630.2	8009.2	8605.7	9294.9	9643.8	9628.7	9232.4	9135.5	8644.5	8308.5
57.5°	7022.9	7093.9	7470.8	8114.7	9105.4	9848.4	9908.7	9633.0	9531.8	9073.1	8758.6
60°	5993.4	6088.2	6523.2	7358.8	8498.1	9779.4	10208.0	9971.1	9908.7	9471.5	9165.7
62.5°	4354.6	4423.5	5002.8	6099.0	7597.9	9288.4	10460.0	10320.0	10272.6	9829.0	9533.9
65°	2608.0	2765.2	3230.4	4313.6	6129.1	8362.4	10322.2	10776.6	10727.0	10197.2	9848.4
67.5°	1320.2	1391.2	1574.3	2338.8	4122.0	6919.5	9630.9	11060.8	11121.1	10511.7	9960.3
70°	818.4	837.7	889.4	1154.3	2058.8	4546.2	7875.7	10320.0	10615.0	10462.1	9669.6
72.5°	656.8	661.2	669.8	719.3	988.5	2125.6	4979.1	8082.4	8614.4	9770.8	9254.0
75°	544.9	547.0	549.2	564.2	615.9	867.9	2422.8	5554.1	6176.5	8304.2	8579.9
77.5°	437.2	426.4	435.0	441.5	454.4	484.6	835.6	2963.3	3594.3	5450.7	6635.2
80°	284.3	280.0	297.2	303.7	316.6	336.0	445.8	1005.7	1221.1	1983.5	2110.5
82.5°	152.9	144.3	180.9	174.4	180.9	196.0	262.7	368.3	413.5	598.7	506.1
85°	47.4	47.4	49.5	58.1	71.1	68.9	114.1	180.9	200.3	256.3	189.5
87.5°	8.6	8.6	8.6	8.6	8.6	10.8	23.7	36.6	49.5	88.3	66.8
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°	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3	3131.3
2.5°	3174.4	3155.0	3165.8	3172.2	3170.1	3165.8	3144.2	3139.9	3129.2	3111.9	3107.6
5°	3269.1	3247.6	3249.8	3243.3	3221.8	3193.8	3146.4	3122.7	3103.3	3081.8	3079.6
7.5°	3417.7	3394.1	3387.6	3357.4	3297.1	3232.5	3157.2	3114.1	3081.8	3053.8	3049.5
10°	3607.3	3583.6	3562.0	3491.0	3391.9	3305.8	3206.7	3144.2	3096.9	3062.4	3055.9
12.5°	3818.3	3798.9	3745.1	3641.7	3523.3	3422.1	3320.8	3243.3	3174.4	3122.7	3116.2
15°	4053.1	4010.0	3928.1	3794.6	3682.6	3600.8	3478.0	3372.5	3262.7	3193.8	3178.7
17.5°	4216.7	4180.1	4083.2	3954.0	3865.7	3794.6	3650.3	3499.6	3351.0	3249.8	3228.2
20°	4333.0	4294.3	4184.4	4089.7	4061.7	4001.4	3833.4	3658.9	3486.7	3361.8	3333.8
22.5°	4417.0	4376.1	4264.1	4216.7	4255.5	4244.7	4081.1	3882.9	3678.3	3529.7	3495.3
25°	4496.7	4457.9	4358.9	4376.1	4479.5	4511.8	4335.2	4104.7	3872.2	3697.7	3656.8
27.5°	4572.1	4522.5	4477.3	4572.1	4718.5	4778.8	4591.5	4330.9	4078.9	3900.1	3867.8
30°	4688.4	4630.2	4623.8	4761.6	4994.2	5045.9	4839.1	4578.5	4328.7	4147.8	4106.9
32.5°	4834.8	4781.0	4785.3	4992.0	5261.2	5304.3	5127.7	4884.3	4634.5	4453.6	4397.6
35°	5032.9	4966.2	5002.8	5256.9	5528.3	5607.9	5465.8	5263.4	5020.0	4834.8	4772.4
37.5°	5306.4	5209.5	5284.9	5552.0	5825.5	5943.9	5834.1	5683.3	5442.1	5254.8	5196.6
40°	5655.3	5575.6	5605.8	5900.8	6183.0	6325.1	6256.2	6107.6	5868.5	5672.6	5605.8
42.5°	6068.8	5989.1	5978.4	6292.8	6574.9	6790.3	6723.5	6587.8	6340.2	6116.2	6051.6
45°	6473.7	6400.5	6415.5	6736.4	7053.0	7287.7	7221.0	7061.6	6792.4	6534.0	6482.3
47.5°	6895.8	6835.5	6848.4	7188.7	7537.6	7772.3	7688.3	7494.5	7180.1	6904.4	6842.0
50°	7328.7	7259.7	7279.1	7636.6	8013.5	8235.3	8106.1	7819.7	7473.0	7203.8	7149.9
52.5°	7759.4	7677.5	7727.1	8065.2	8455.0	8631.6	8392.5	8045.8	7709.8	7442.8	7382.5
55°	8254.7	8168.6	8114.7	8476.5	8862.0	8935.2	8607.9	8203.0	7804.6	7501.0	7464.3
57.5°	8707.0	8633.7	8532.5	8894.3	9178.6	9124.8	8773.7	8159.9	7574.2	7184.4	7132.7
60°	9111.8	9049.4	8961.1	9269.0	9398.3	9277.7	8640.2	7649.5	7005.6	6598.6	6574.9
62.5°	9484.4	9417.6	9335.8	9598.5	9581.3	9301.4	8032.9	6865.6	6004.2	5567.0	5528.3
65°	9779.4	9719.1	9695.5	9902.2	9874.2	8838.3	7087.5	5582.1	4386.9	3893.7	3878.6
67.5°	9863.4	9839.7	9966.8	10317.8	9880.7	7908.0	5558.4	3702.0	2356.0	1888.7	1860.7
70°	9549.0	9546.9	9910.8	10412.6	8984.8	6040.8	3279.9	1669.0	1184.5	1051.0	1033.7
72.5°	9139.8	9133.4	9422.0	8982.6	6663.2	3305.8	1380.5	893.7	740.8	704.2	704.2
75°	8467.9	8450.7	8668.2	6833.3	3747.2	1244.8	732.2	613.8	581.5	575.0	575.0
77.5°	6902.3	6758.0	6415.5	4223.2	1307.2	611.6	484.6	482.4	463.0	460.9	460.9
80°	2269.9	2269.9	2638.1	1610.9	577.2	376.9	342.4	359.6	340.3	327.3	325.2
82.5°	370.4	510.4	725.8	460.9	312.3	234.7	211.1	224.0	234.7	187.4	187.4
85°	146.4	191.7	280.0	215.4	144.3	94.8	101.2	112.0	99.1	86.1	84.0
87.5°	56.0	68.9	99.1	51.7	30.2	17.2	10.8	10.8	8.6	8.6	8.6
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)