

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: P638248

Luminaire Tested: GWS-SA4E-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638248
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-SA4E-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31503.2 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 202.6
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

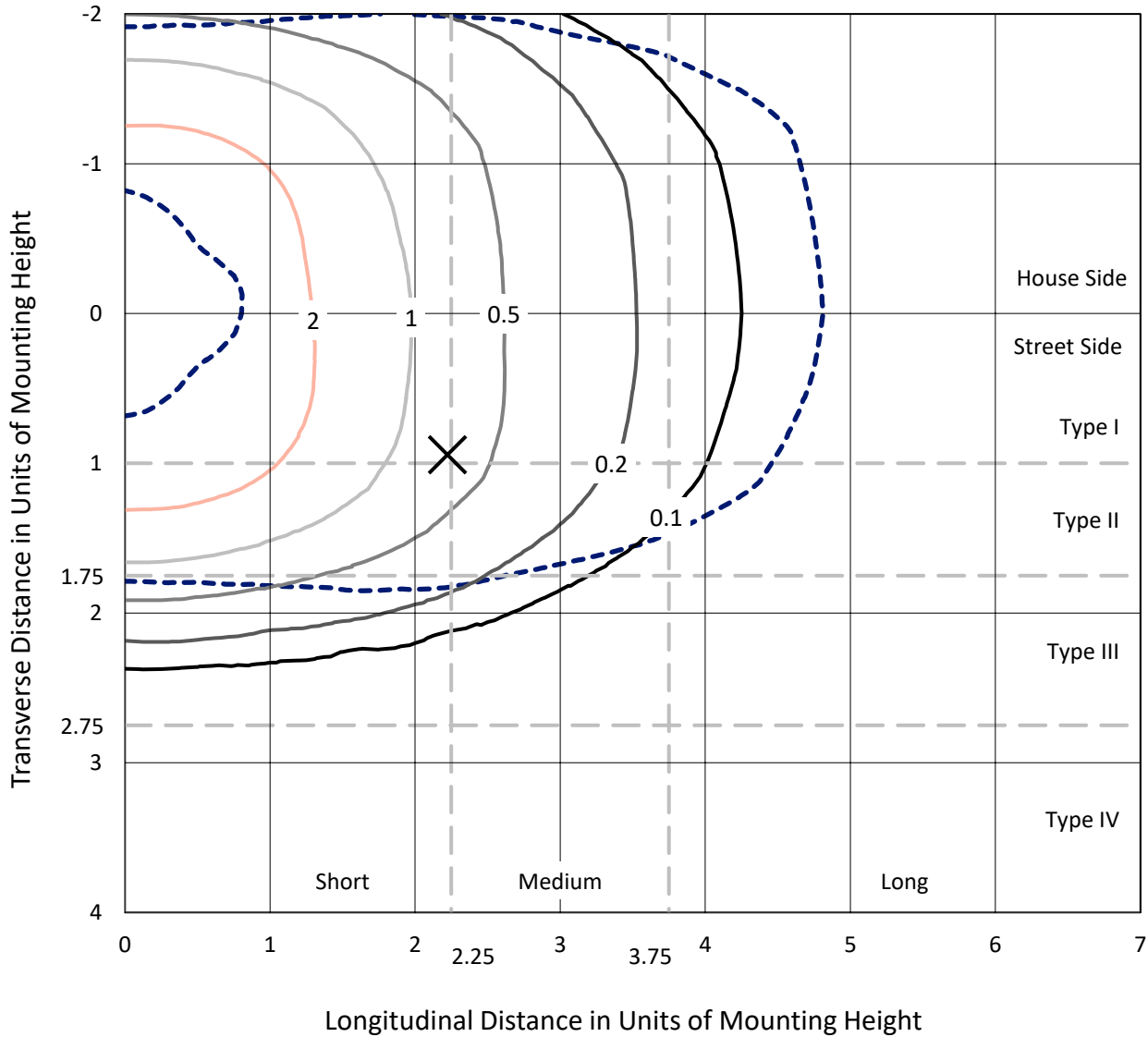


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Iso-Footcandle Lines of Horizontal Illumination

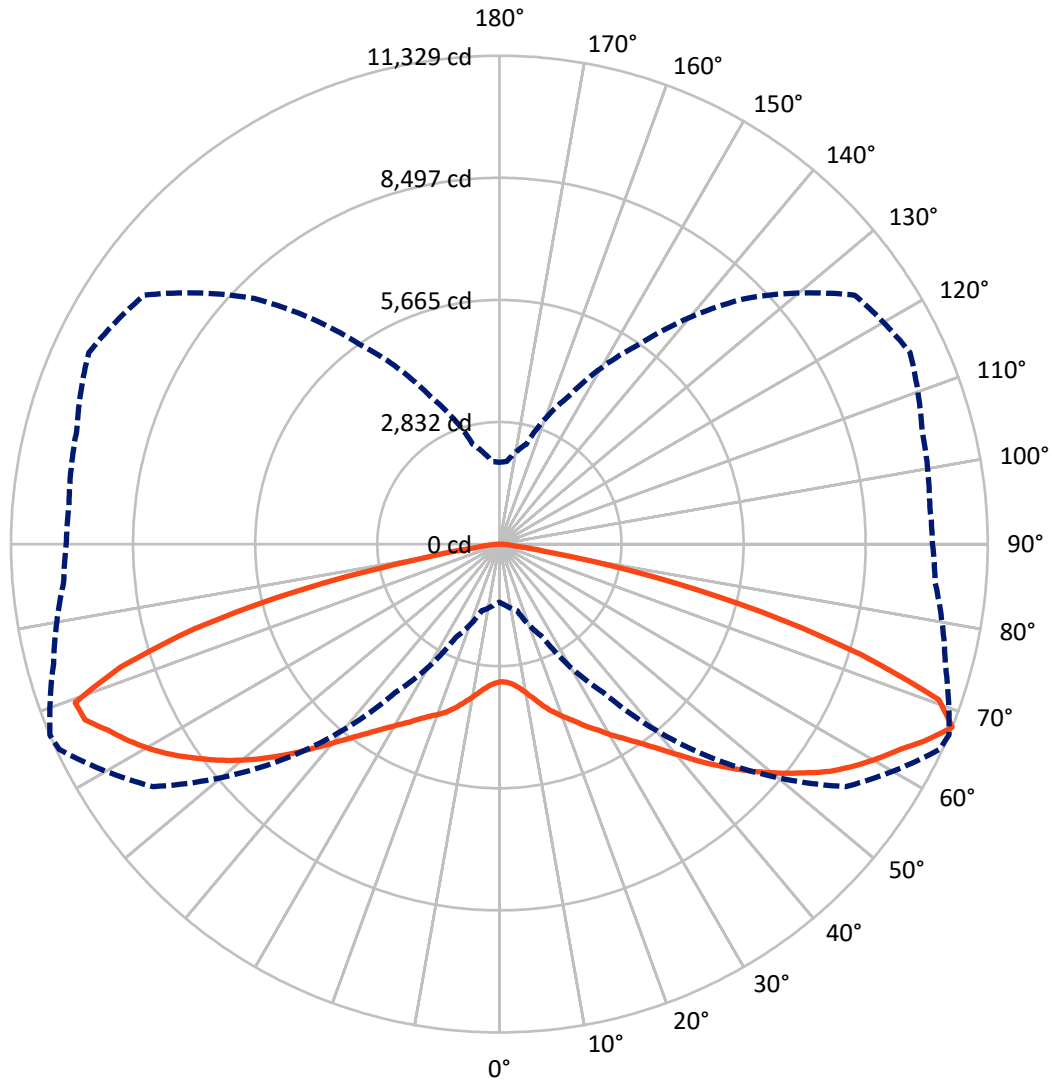
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 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	15577.8	0.0	15577.8
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	15925.4	0.0	15925.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	31503.2	0.0	31503.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.0	1.0
10°-20°	1057.3	3.4
20°-30°	2074.4	6.6
30°-40°	3534.2	11.2
40°-50°	5675.2	18.0
50°-60°	7711.4	24.5
60°-70°	7376.5	23.4
70°-80°	3507.0	11.1
80°-90°	254.1	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°	31503.2	100.0
0°-180°	31503.2	100.0

Coefficient of Utilization



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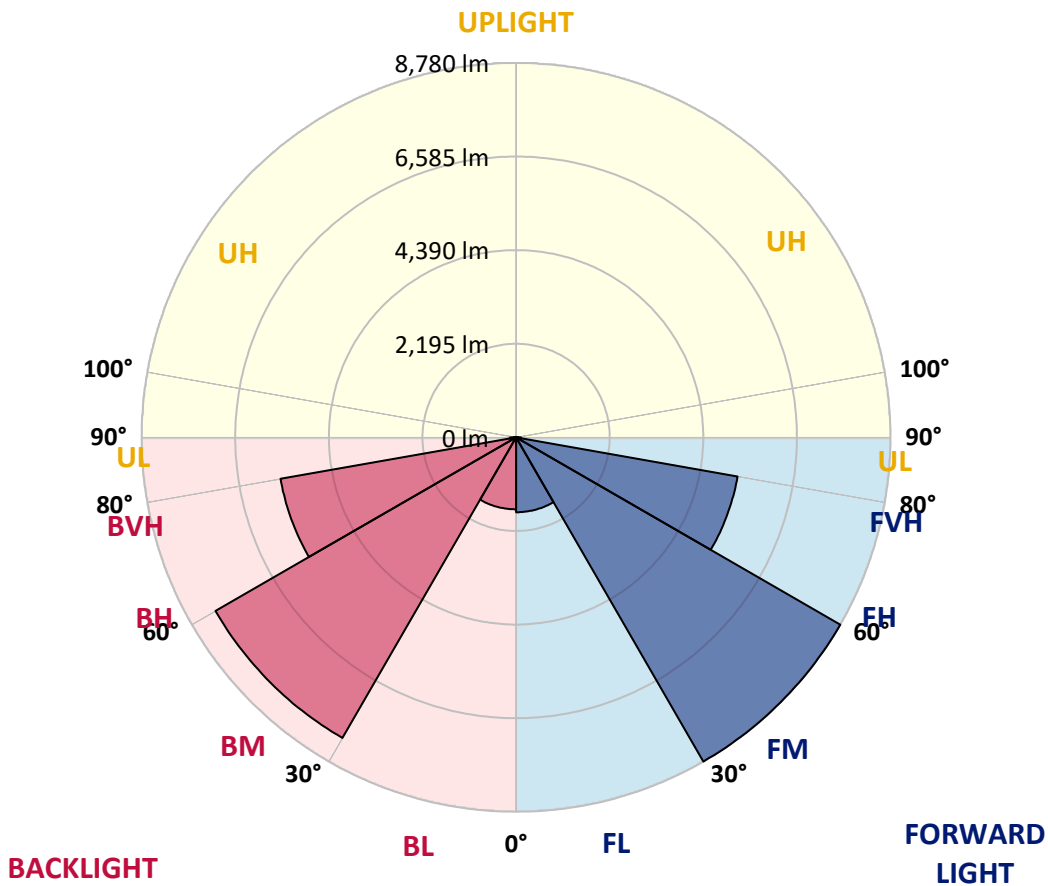
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1756.5	5.6			
FM (30°-60°)	8780.2	27.9			
FH (60°-80°)	5274.4	16.7			G3/7500
FVH (80°-90°)	114.2	0.4			G2/225
BL (0°-30°)	1688.2	5.4	B3/2500		
BM (30°-60°)	8140.6	25.8	B4/8500		
BH (60°-80°)	5609.1	17.8	B5		G5
BVH (80°-90°)	139.9	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°	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9
2.5°	3124.1	3128.4	3135.0	3148.2	3161.4	3181.1	3200.8	3198.7	3207.4	3214.0	3220.6
5°	3106.5	3110.9	3121.9	3139.4	3159.2	3192.1	3233.8	3251.3	3264.5	3288.6	3310.5
7.5°	3143.8	3152.6	3167.9	3192.1	3222.8	3264.5	3321.5	3352.2	3372.0	3415.8	3453.1
10°	3194.3	3205.2	3235.9	3282.0	3328.1	3391.7	3464.1	3510.2	3523.3	3580.4	3650.6
12.5°	3242.5	3255.7	3306.1	3389.5	3472.9	3558.4	3644.0	3701.0	3705.4	3782.2	3861.2
15°	3319.3	3330.3	3398.3	3505.8	3633.0	3751.5	3856.8	3896.3	3913.8	3968.7	4067.4
17.5°	3488.2	3501.4	3589.2	3705.4	3839.3	3964.3	4069.6	4102.5	4102.5	4148.6	4229.8
20°	3670.3	3683.5	3799.8	3949.0	4111.3	4238.5	4319.7	4289.0	4278.0	4291.2	4348.2
22.5°	3874.4	3898.5	4010.4	4183.7	4383.3	4539.1	4580.8	4488.6	4457.9	4427.2	4440.4
25°	4135.4	4163.9	4273.6	4457.9	4653.2	4817.7	4841.9	4699.3	4681.7	4574.2	4534.7
27.5°	4436.0	4457.9	4593.9	4776.0	4958.1	5096.3	5122.7	4947.2	4887.9	4738.7	4646.6
30°	4824.3	4844.0	4962.5	5142.4	5300.4	5396.9	5429.8	5188.5	5142.4	4914.2	4771.6
32.5°	5247.7	5256.5	5377.2	5550.5	5690.9	5783.0	5736.9	5456.1	5388.1	5131.4	4936.2
35°	5732.6	5732.6	5888.3	6028.7	6140.6	6166.9	6079.2	5758.9	5679.9	5401.3	5157.8
37.5°	6208.6	6221.8	6366.6	6533.3	6632.0	6627.7	6467.5	6116.5	6026.5	5723.8	5453.9
40°	6724.2	6752.7	6897.5	7084.0	7178.3	7165.2	6919.4	6528.9	6436.8	6079.2	5815.9
42.5°	7198.1	7244.1	7413.1	7603.9	7707.0	7698.3	7441.6	7002.8	6912.9	6509.2	6245.9
45°	7575.4	7623.7	7834.3	8099.7	8264.3	8248.9	7990.0	7494.2	7384.5	6961.1	6671.5
47.5°	7906.7	7957.1	8191.9	8472.7	8733.8	8760.1	8523.2	7990.0	7873.8	7446.0	7119.1
50°	8161.2	8185.3	8448.6	8755.7	9058.5	9205.4	8999.2	8488.1	8347.6	7924.2	7555.7
52.5°	8141.4	8174.3	8499.0	8915.9	9321.7	9563.0	9420.4	8957.5	8821.5	8360.8	8001.0
55°	7739.9	7772.9	8159.0	8766.7	9468.7	9824.1	9808.8	9405.1	9306.4	8806.2	8463.9
57.5°	7154.2	7226.6	7610.5	8266.5	9275.6	10032.5	10094.0	9813.1	9710.0	9242.7	8922.4
60°	6105.5	6202.0	6645.2	7496.4	8657.0	9962.3	10398.9	10157.6	10094.0	9648.6	9337.1
62.5°	4436.0	4506.2	5096.3	6213.0	7739.9	9462.1	10655.6	10513.0	10464.7	10012.8	9712.2
65°	2656.8	2816.9	3290.8	4394.3	6243.7	8518.8	10515.2	10978.1	10927.6	10387.9	10032.5
67.5°	1344.8	1417.2	1603.7	2382.5	4199.1	7048.9	9810.9	11267.7	11329.1	10708.2	10146.6
70°	833.7	853.4	906.1	1175.9	2097.3	4631.2	8023.0	10513.0	10813.5	10657.8	9850.4
72.5°	669.1	673.5	682.3	732.7	1007.0	2165.3	5072.2	8233.6	8775.4	9953.5	9427.0
75°	555.0	557.2	559.4	574.8	627.4	884.1	2468.1	5658.0	6292.0	8459.5	8740.3
77.5°	445.4	434.4	443.2	449.7	462.9	493.6	851.2	3018.8	3661.6	5552.7	6759.3
80°	289.6	285.2	302.8	309.3	322.5	342.2	454.1	1024.5	1243.9	2020.5	2150.0
82.5°	155.8	147.0	184.3	177.7	184.3	199.6	267.7	375.2	421.2	609.9	515.6
85°	48.3	48.3	50.5	59.2	72.4	70.2	116.3	184.3	204.0	261.1	193.1
87.5°	8.8	8.8	8.8	8.8	8.8	11.0	24.1	37.3	50.5	89.9	68.0
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°	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9	3189.9
2.5°	3233.8	3214.0	3225.0	3231.6	3229.4	3225.0	3203.0	3198.7	3187.7	3170.1	3165.7
5°	3330.3	3308.3	3310.5	3304.0	3282.0	3253.5	3205.2	3181.1	3161.4	3139.4	3137.2
7.5°	3481.7	3457.5	3450.9	3420.2	3358.8	3293.0	3216.2	3172.3	3139.4	3110.9	3106.5
10°	3674.7	3650.6	3628.6	3556.2	3455.3	3367.6	3266.7	3203.0	3154.8	3119.7	3113.1
12.5°	3889.7	3870.0	3815.1	3709.8	3589.2	3486.0	3382.9	3304.0	3233.8	3181.1	3174.5
15°	4128.8	4085.0	4001.6	3865.6	3751.5	3668.1	3543.1	3435.6	3323.7	3253.5	3238.1
17.5°	4295.6	4258.3	4159.6	4027.9	3938.0	3865.6	3718.6	3565.0	3413.6	3310.5	3288.6
20°	4414.0	4374.6	4262.7	4166.1	4137.6	4076.2	3905.1	3727.4	3551.9	3424.6	3396.1
22.5°	4499.6	4457.9	4343.8	4295.6	4335.1	4324.1	4157.4	3955.5	3747.1	3595.7	3560.6
25°	4580.8	4541.3	4440.4	4457.9	4563.2	4596.1	4416.2	4181.5	3944.6	3766.9	3725.2
27.5°	4657.6	4607.1	4561.0	4657.6	4806.8	4868.2	4677.3	4411.9	4155.2	3973.1	3940.2
30°	4776.0	4716.8	4710.2	4850.6	5087.6	5140.2	4929.6	4664.1	4409.7	4225.4	4183.7
32.5°	4925.2	4870.4	4874.8	5085.4	5359.6	5403.5	5223.6	4975.7	4721.2	4536.9	4479.9
35°	5127.1	5059.0	5096.3	5355.2	5631.6	5712.8	5568.0	5361.8	5113.9	4925.2	4861.6
37.5°	5405.7	5307.0	5383.7	5655.8	5934.4	6055.1	5943.2	5789.6	5543.9	5353.0	5293.8
40°	5761.1	5679.9	5710.6	6011.2	6298.6	6443.4	6373.2	6221.8	5978.3	5778.6	5710.6
42.5°	6182.3	6101.1	6090.2	6410.5	6697.9	6917.2	6849.2	6711.0	6458.7	6230.6	6164.8
45°	6594.7	6520.2	6535.5	6862.4	7184.9	7424.0	7356.0	7193.7	6919.4	6656.2	6603.5
47.5°	7024.7	6963.3	6976.5	7323.1	7678.5	7917.6	7832.1	7634.6	7314.3	7033.5	6969.9
50°	7465.7	7395.5	7415.3	7779.4	8163.4	8389.3	8257.7	7965.9	7612.7	7338.5	7283.6
52.5°	7904.5	7821.1	7871.6	8216.0	8613.1	8793.0	8549.5	8196.3	7854.0	7582.0	7520.6
55°	8409.1	8321.3	8266.5	8635.0	9027.7	9102.3	8768.9	8356.4	7950.6	7641.2	7603.9
57.5°	8869.8	8795.2	8692.1	9060.6	9350.2	9295.4	8937.8	8312.5	7715.8	7318.7	7266.1
60°	9282.2	9218.6	9128.7	9442.4	9574.0	9451.2	8801.8	7792.6	7136.6	6722.0	6697.9
62.5°	9661.8	9593.8	9510.4	9778.0	9760.5	9475.3	8183.1	6994.0	6116.5	5671.1	5631.6
65°	9962.3	9900.9	9876.8	10087.4	10058.9	9003.6	7220.0	5686.5	4468.9	3966.5	3951.1
67.5°	10047.9	10023.8	10153.2	10510.8	10065.4	8055.9	5662.4	3771.2	2400.1	1924.0	1895.5
70°	9727.6	9725.4	10096.2	10607.3	9152.8	6153.8	3341.3	1700.2	1206.6	1070.6	1053.1
72.5°	9310.7	9304.2	9598.1	9150.6	6787.8	3367.6	1406.3	910.5	754.7	717.4	717.4
75°	8626.3	8608.7	8830.3	6961.1	3817.3	1268.1	745.9	625.3	592.3	585.8	585.8
77.5°	7031.3	6884.3	6535.5	4302.2	1331.7	623.1	493.6	491.4	471.7	469.5	469.5
80°	2312.3	2312.3	2687.5	1641.0	588.0	383.9	348.8	366.4	346.6	333.5	331.3
82.5°	377.3	519.9	739.3	469.5	318.1	239.1	215.0	228.2	239.1	190.9	190.9
85°	149.2	195.3	285.2	219.4	147.0	96.5	103.1	114.1	100.9	87.8	85.6
87.5°	57.0	70.2	100.9	52.7	30.7	17.6	11.0	11.0	8.8	8.8	8.8
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)