

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: P640668

Luminaire Tested: GWS-SA5E-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640668
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-SA5E-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38115.7 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

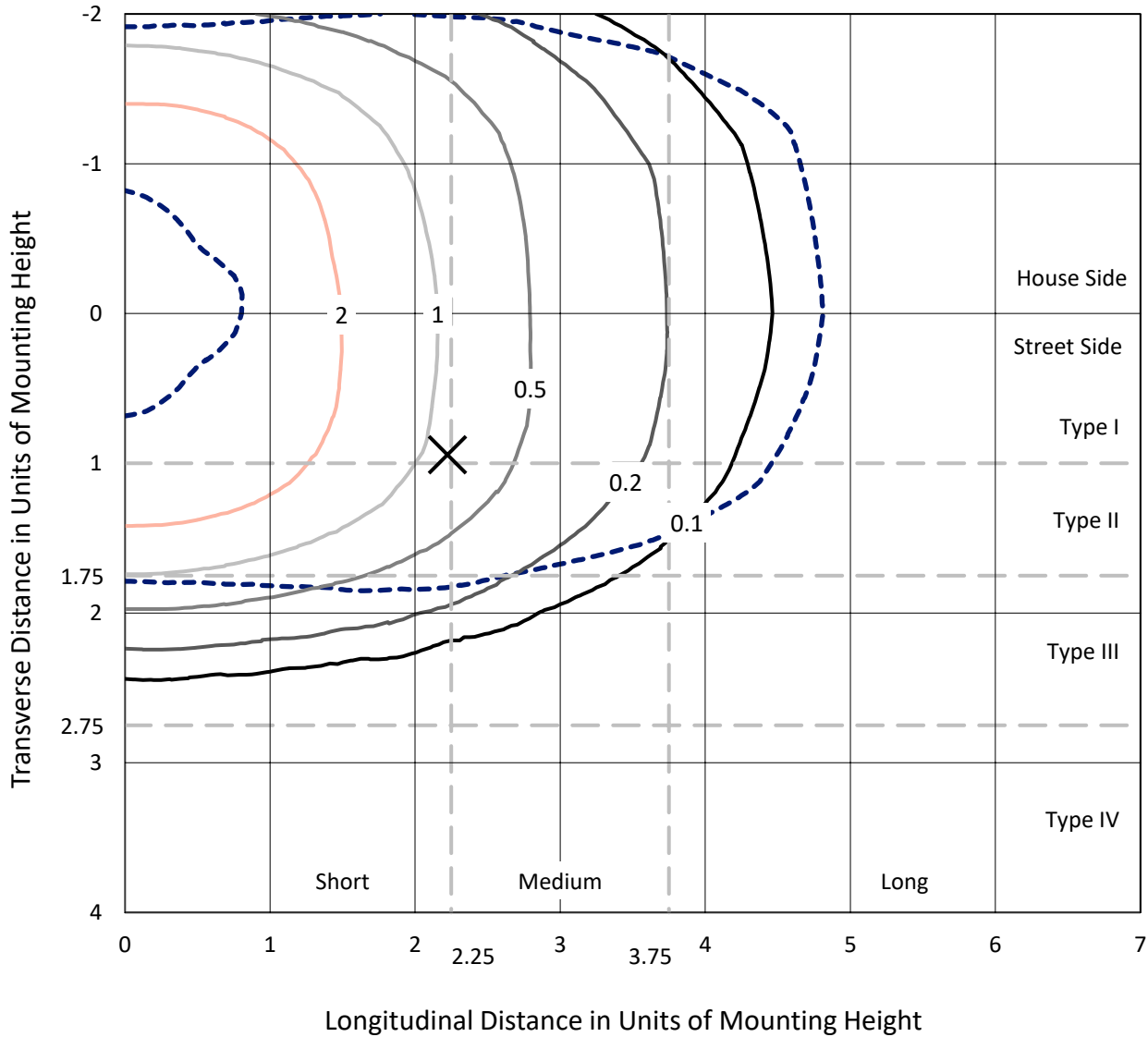
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

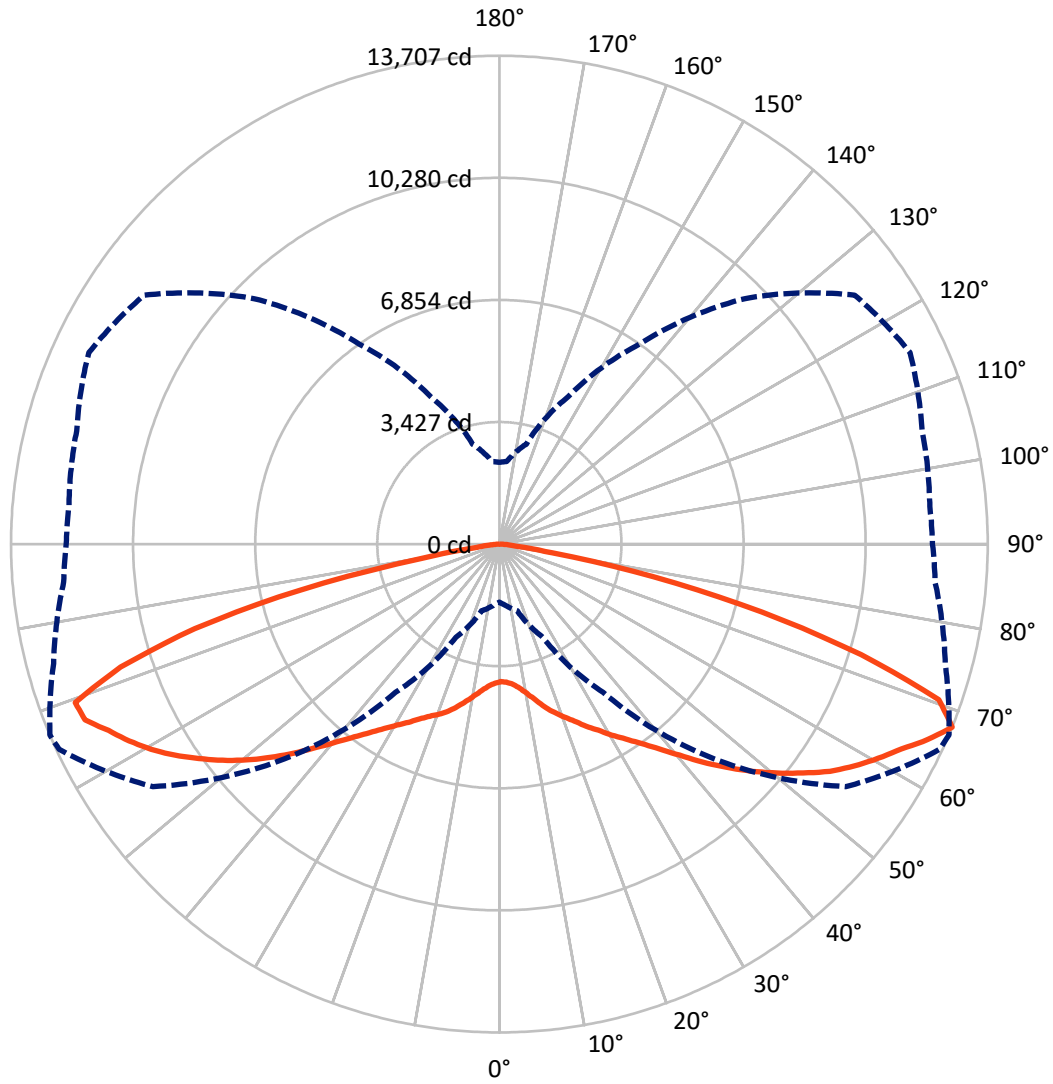
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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	18847.5	0.0	18847.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	19268.2	0.0	19268.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	38115.7	0.0	38115.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.7	1.0
10°-20°	1279.3	3.4
20°-30°	2509.9	6.6
30°-40°	4276.0	11.2
40°-50°	6866.4	18.0
50°-60°	9330.0	24.5
60°-70°	8924.8	23.4
70°-80°	4243.2	11.1
80°-90°	307.5	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°	38115.7	100.0
0°-180°	38115.7	100.0

Coefficient of Utilization



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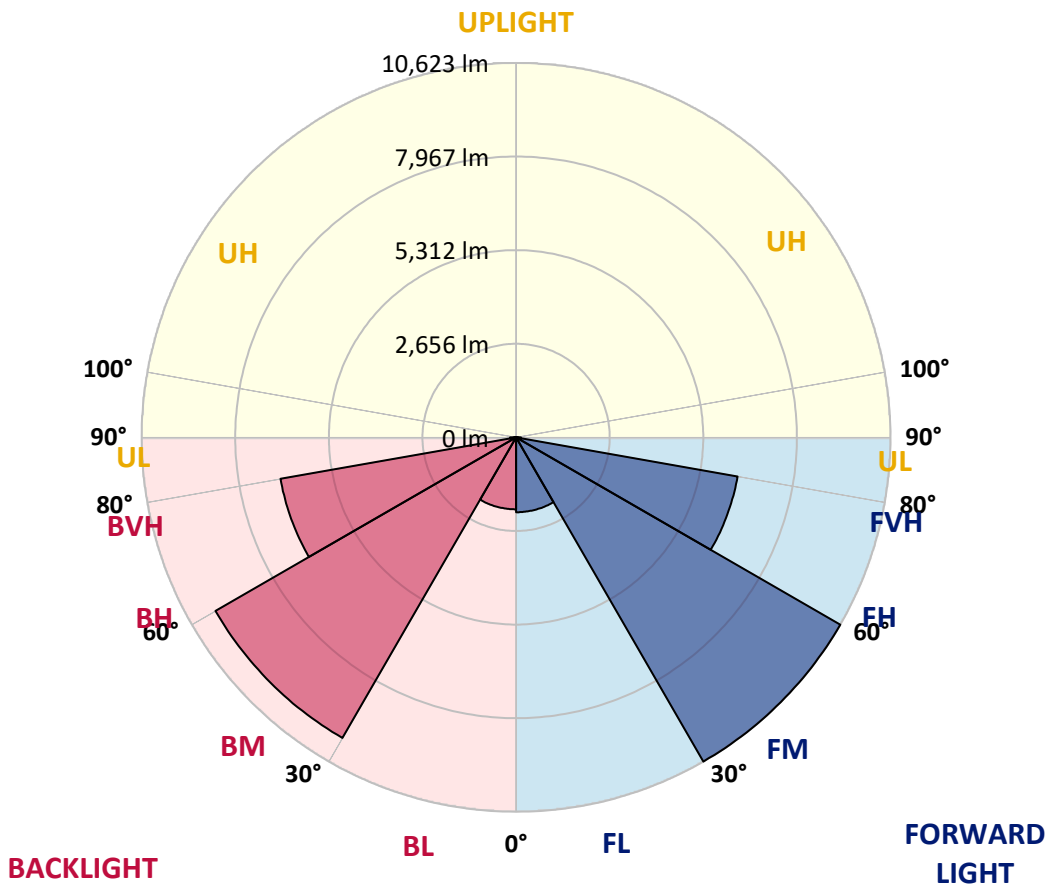
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2125.2	5.6			
FM (30°-60°)	10623.2	27.9			
FH (60°-80°)	6381.6	16.7			G3/7500
FVH (80°-90°)	138.2	0.4			G2/225
BL (0°-30°)	2042.6	5.4	B3/2500		
BM (30°-60°)	9849.3	25.8	B5		
BH (60°-80°)	6786.4	17.8	B5		G5
BVH (80°-90°)	169.3	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°	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4
2.5°	3779.8	3785.1	3793.1	3809.0	3824.9	3848.8	3872.7	3870.0	3880.7	3888.6	3896.6
5°	3758.6	3763.9	3777.1	3798.4	3822.3	3862.1	3912.5	3933.7	3949.7	3978.9	4005.4
7.5°	3803.7	3814.3	3832.9	3862.1	3899.2	3949.7	4018.7	4055.8	4079.7	4132.8	4177.9
10°	3864.7	3878.0	3915.2	3970.9	4026.7	4103.6	4191.2	4247.0	4262.9	4331.9	4416.8
12.5°	3923.1	3939.1	4000.1	4101.0	4201.8	4305.4	4408.9	4477.9	4483.2	4576.1	4671.7
15°	4016.0	4029.3	4111.6	4241.7	4395.6	4538.9	4666.3	4714.1	4735.4	4801.7	4921.2
17.5°	4220.4	4236.3	4342.5	4483.2	4645.1	4796.4	4923.8	4963.6	4963.6	5019.4	5117.6
20°	4440.7	4456.7	4597.3	4777.8	4974.3	5128.2	5226.4	5189.3	5176.0	5191.9	5260.9
22.5°	4687.6	4716.8	4852.2	5061.8	5303.4	5491.9	5542.3	5430.8	5393.6	5356.5	5372.4
25°	5003.5	5038.0	5170.7	5393.6	5629.9	5829.0	5858.2	5685.6	5664.4	5534.3	5486.5
27.5°	5367.1	5393.6	5558.2	5778.5	5998.8	6166.1	6197.9	5985.6	5913.9	5733.4	5621.9
30°	5836.9	5860.8	6004.1	6221.8	6412.9	6529.7	6569.5	6277.5	6221.8	5945.7	5773.2
32.5°	6349.2	6359.8	6505.8	6715.5	6885.4	6996.9	6941.1	6601.4	6519.1	6208.5	5972.3
35°	6935.8	6935.8	7124.3	7294.2	7429.5	7461.4	7355.2	6967.7	6872.1	6535.0	6240.4
37.5°	7511.8	7527.7	7702.9	7904.7	8024.1	8018.8	7825.0	7400.3	7291.5	6925.2	6598.7
40°	8135.6	8170.1	8345.3	8570.9	8685.0	8669.1	8371.8	7899.4	7787.9	7355.2	7036.7
42.5°	8708.9	8764.7	8969.1	9200.0	9324.7	9314.1	9003.6	8472.7	8363.9	7875.5	7556.9
45°	9165.5	9223.9	9478.7	9799.9	9998.9	9980.4	9667.1	9067.3	8934.5	8422.3	8071.9
47.5°	9566.3	9627.3	9911.3	10251.1	10567.0	10598.8	10312.2	9667.1	9526.5	9008.9	8613.4
50°	9874.2	9903.4	10221.9	10593.5	10959.8	11137.7	10888.1	10269.7	10099.8	9587.5	9141.6
52.5°	9850.3	9890.1	10283.0	10787.3	11278.3	11570.3	11397.8	10837.7	10673.1	10115.7	9680.4
55°	9364.6	9404.4	9871.5	10606.8	11456.2	11886.2	11867.6	11379.2	11259.8	10654.6	10240.5
57.5°	8655.8	8743.4	9207.9	10001.6	11222.6	12138.3	12212.7	11872.9	11748.2	11182.8	10795.2
60°	7387.1	7503.9	8040.0	9069.9	10474.1	12053.4	12581.6	12289.6	12212.7	11673.8	11296.9
62.5°	5367.1	5452.0	6166.1	7517.1	9364.6	11448.2	12892.2	12719.7	12661.3	12114.5	11750.8
65°	3214.4	3408.2	3981.5	5316.7	7554.3	10306.8	12722.3	13282.4	13221.3	12568.4	12138.3
67.5°	1627.1	1714.7	1940.3	2882.6	5080.4	8528.4	11870.3	13632.7	13707.1	12955.9	12276.4
70°	1008.7	1032.5	1096.2	1422.7	2537.6	5603.3	9707.0	12719.7	13083.3	12894.8	11918.0
72.5°	809.6	814.9	825.5	886.6	1218.3	2619.8	6136.9	9961.8	10617.4	12042.8	11405.7
75°	671.6	674.2	676.9	695.4	759.1	1069.7	2986.1	6845.6	7612.7	10235.2	10574.9
77.5°	538.8	525.6	536.2	544.1	560.1	597.2	1029.9	3652.4	4430.1	6718.2	8178.1
80°	350.4	345.1	366.3	374.3	390.2	414.1	549.5	1239.6	1505.0	2444.7	2601.3
82.5°	188.5	177.8	223.0	215.0	223.0	241.5	323.8	453.9	509.6	737.9	623.8
85°	58.4	58.4	61.1	71.7	87.6	84.9	140.7	223.0	246.9	315.9	233.6
87.5°	10.6	10.6	10.6	10.6	10.6	13.3	29.2	45.1	61.1	108.8	82.3
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°	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4
2.5°	3912.5	3888.6	3901.9	3909.9	3907.2	3901.9	3875.4	3870.0	3856.8	3835.5	3830.2
5°	4029.3	4002.8	4005.4	3997.5	3970.9	3936.4	3878.0	3848.8	3824.9	3798.4	3795.7
7.5°	4212.5	4183.3	4175.3	4138.1	4063.8	3984.2	3891.3	3838.2	3798.4	3763.9	3758.6
10°	4446.0	4416.8	4390.3	4302.7	4180.6	4074.4	3952.3	3875.4	3817.0	3774.5	3766.5
12.5°	4706.2	4682.3	4615.9	4488.5	4342.5	4217.8	4093.0	3997.5	3912.5	3848.8	3840.8
15°	4995.5	4942.4	4841.5	4677.0	4538.9	4438.1	4286.8	4156.7	4021.3	3936.4	3917.8
17.5°	5197.2	5152.1	5032.7	4873.4	4764.6	4677.0	4499.1	4313.3	4130.2	4005.4	3978.9
20°	5340.6	5292.8	5157.4	5040.6	5006.1	4931.8	4724.7	4509.7	4297.4	4143.4	4108.9
22.5°	5444.1	5393.6	5255.6	5197.2	5245.0	5231.7	5030.0	4785.8	4533.6	4350.5	4308.0
25°	5542.3	5494.5	5372.4	5393.6	5521.1	5560.9	5343.2	5059.2	4772.5	4557.5	4507.1
27.5°	5635.2	5574.1	5518.4	5635.2	5815.7	5890.0	5659.1	5337.9	5027.3	4807.0	4767.2
30°	5778.5	5706.9	5698.9	5868.8	6155.4	6219.1	5964.3	5643.2	5335.2	5112.3	5061.8
32.5°	5959.0	5892.7	5898.0	6152.8	6484.6	6537.7	6320.0	6020.1	5712.2	5489.2	5420.2
35°	6203.2	6120.9	6166.1	6479.3	6813.7	6911.9	6736.7	6487.2	6187.3	5959.0	5882.0
37.5°	6540.3	6420.9	6513.8	6842.9	7180.0	7326.0	7190.6	7004.8	6707.5	6476.6	6405.0
40°	6970.3	6872.1	6909.3	7272.9	7620.6	7795.8	7710.9	7527.7	7233.1	6991.6	6909.3
42.5°	7480.0	7381.8	7368.5	7756.0	8103.7	8369.2	8286.9	8119.7	7814.4	7538.4	7458.7
45°	7979.0	7888.7	7907.3	8302.8	8693.0	8982.3	8900.0	8703.6	8371.8	8053.3	7989.6
47.5°	8499.2	8424.9	8440.8	8860.2	9290.2	9579.6	9476.0	9237.1	8849.6	8509.9	8432.9
50°	9032.8	8947.8	8971.7	9412.3	9876.8	10150.2	9991.0	9638.0	9210.6	8878.8	8812.4
52.5°	9563.6	9462.8	9523.8	9940.5	10421.0	10638.6	10344.0	9916.7	9502.6	9173.4	9099.1
55°	10174.1	10068.0	10001.6	10447.5	10922.7	11012.9	10609.4	10110.4	9619.4	9245.1	9200.0
57.5°	10731.5	10641.3	10516.5	10962.5	11312.8	11246.5	10813.8	10057.3	9335.4	8854.9	8791.2
60°	11230.6	11153.6	11044.8	11424.3	11583.6	11434.9	10649.3	9428.3	8634.6	8132.9	8103.7
62.5°	11689.8	11607.5	11506.6	11830.4	11809.2	11464.1	9900.7	8462.1	7400.3	6861.5	6813.7
65°	12053.4	11979.1	11949.9	12204.7	12170.2	10893.5	8735.5	6880.1	5406.9	4799.1	4780.5
67.5°	12156.9	12127.7	12284.3	12717.0	12178.2	9746.8	6850.9	4562.8	2903.9	2327.9	2293.4
70°	11769.4	11766.7	12215.3	12833.8	11074.0	7445.5	4042.6	2057.1	1459.9	1295.3	1274.1
72.5°	11265.1	11257.1	11612.8	11071.3	8212.6	4074.4	1701.4	1101.6	913.1	868.0	868.0
75°	10436.9	10415.7	10683.8	8422.3	4618.6	1534.2	902.5	756.5	716.7	708.7	708.7
77.5°	8507.2	8329.4	7907.3	5205.2	1611.2	753.8	597.2	594.6	570.7	568.0	568.0
80°	2797.7	2797.7	3251.6	1985.5	711.4	464.5	422.0	443.3	419.4	403.5	400.8
82.5°	456.5	629.1	894.5	568.0	384.9	289.3	260.1	276.1	289.3	230.9	230.9
85°	180.5	236.2	345.1	265.4	177.8	116.8	124.8	138.0	122.1	106.2	103.5
87.5°	69.0	84.9	122.1	63.7	37.2	21.2	13.3	13.3	10.6	10.6	10.6
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)