

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: P640998

Luminaire Tested: GWS-SA5F-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640998
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-SA5F-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31649 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

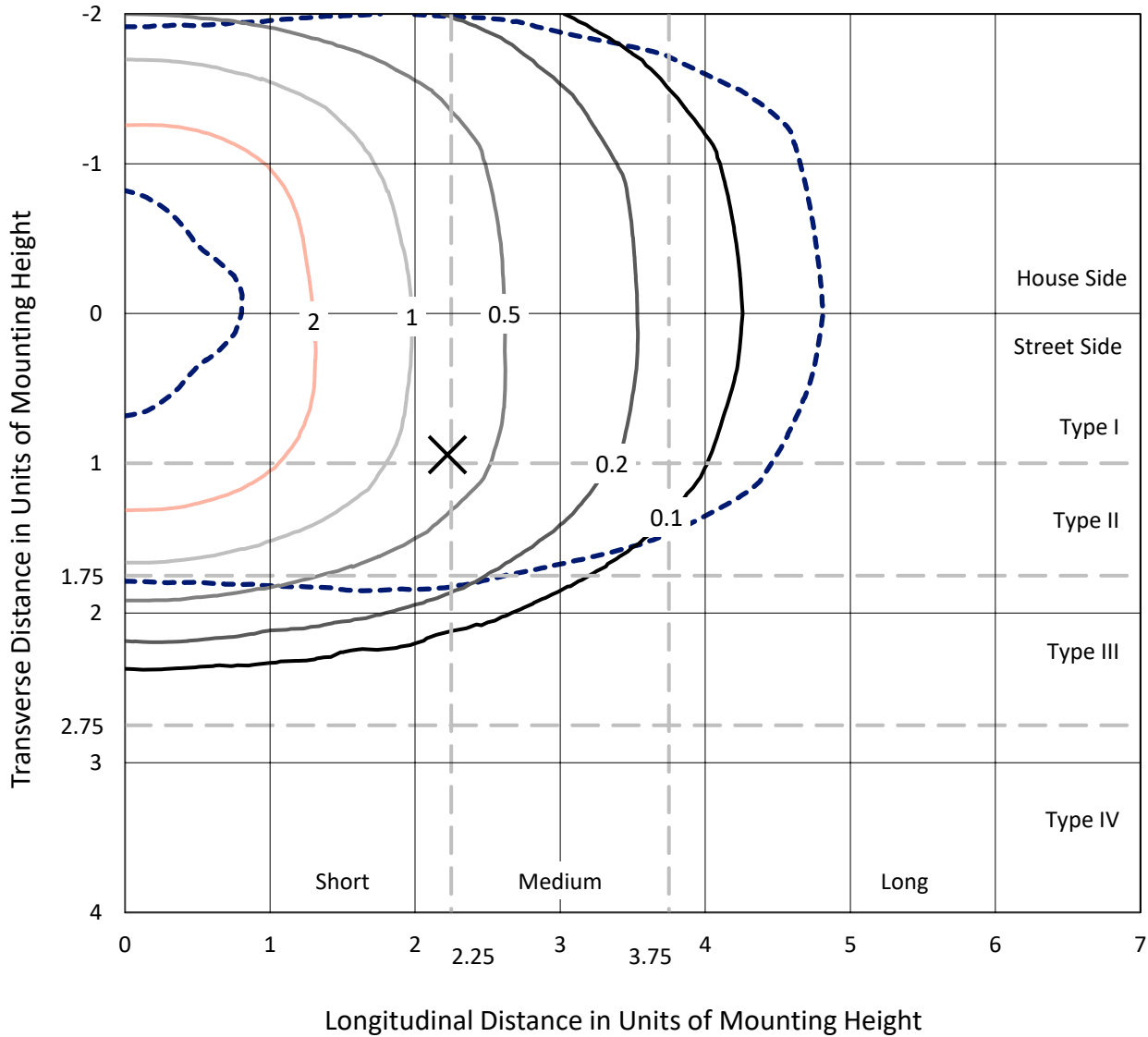
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640998
 CATALOG NUMBER: GWS-SA5F-722-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

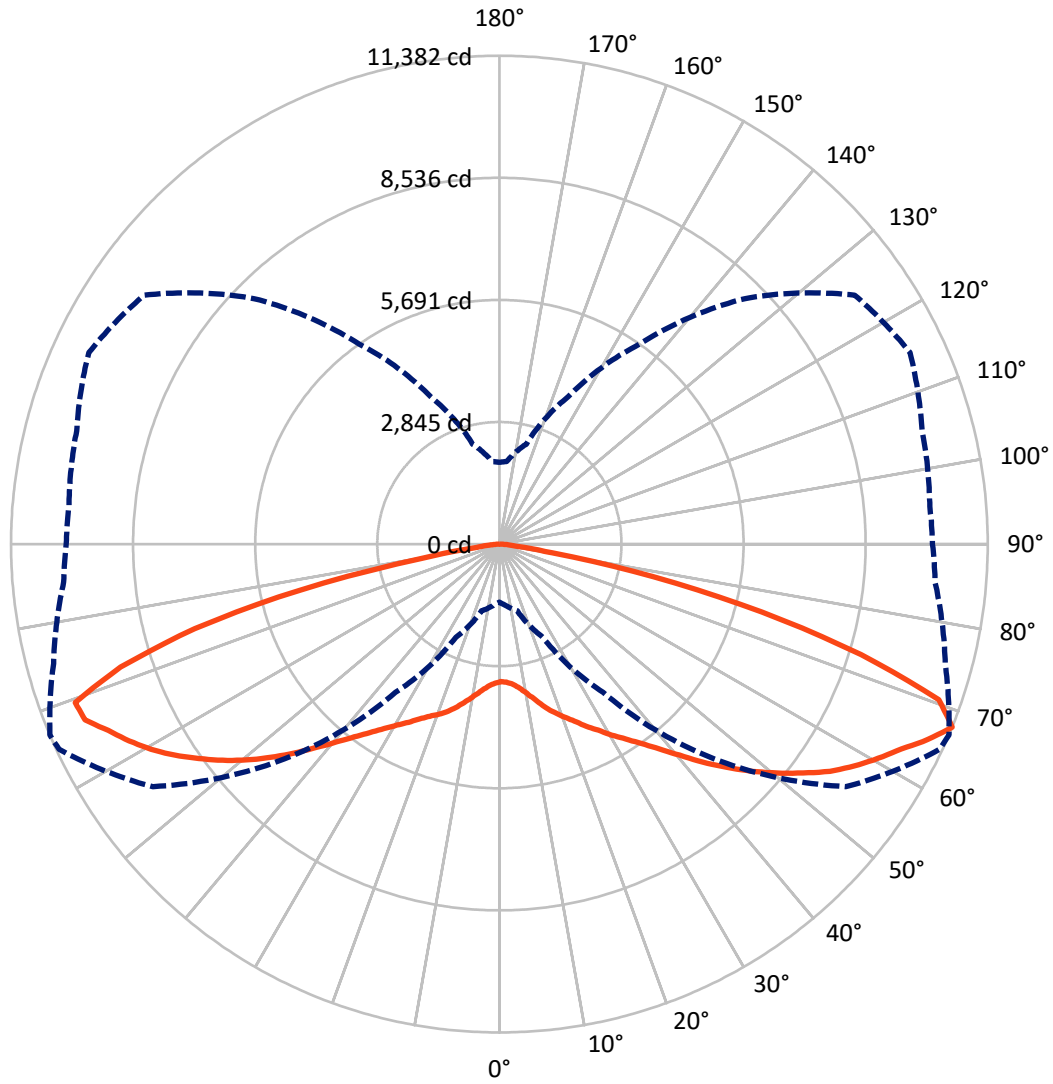
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

REPORT NUMBER: P640998
CATALOG NUMBER: GWS-SA5F-722-U-RW-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640998

CATALOG NUMBER: GWS-SA5F-722-U-RW-W

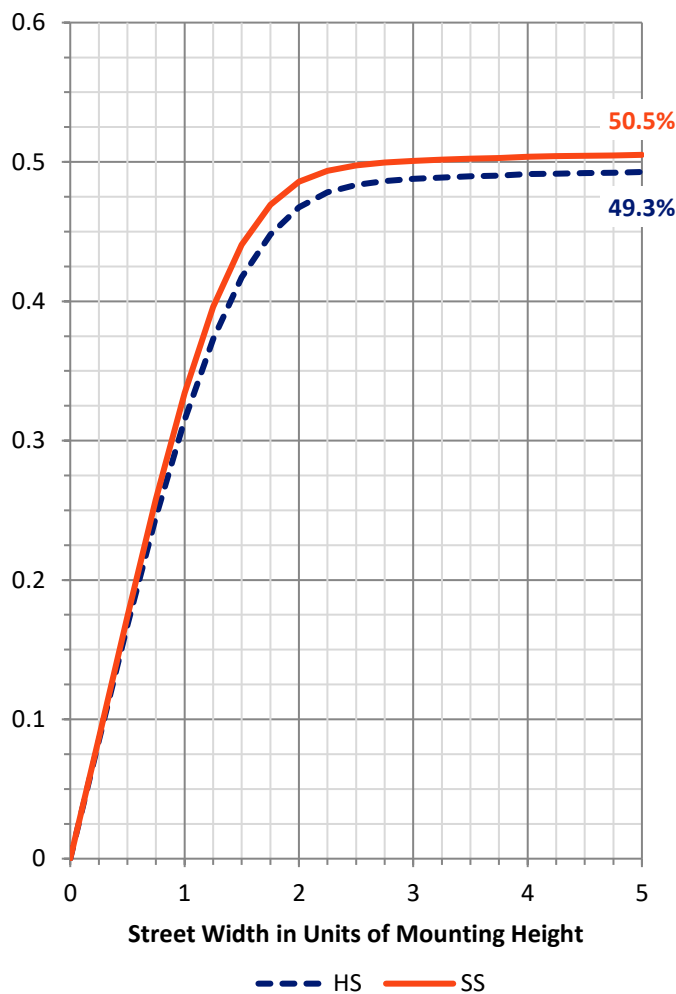
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15649.9	0.0	15649.9
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	15999.1	0.0	15999.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	31649.0	0.0	31649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.4	1.0
10°-20°	1062.2	3.4
20°-30°	2084.0	6.6
30°-40°	3550.5	11.2
40°-50°	5701.5	18.0
50°-60°	7747.1	24.5
60°-70°	7410.6	23.4
70°-80°	3523.3	11.1
80°-90°	255.3	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°	31649.0	100.0
0°-180°	31649.0	100.0

Coefficient of Utilization



REPORT NUMBER: P640998

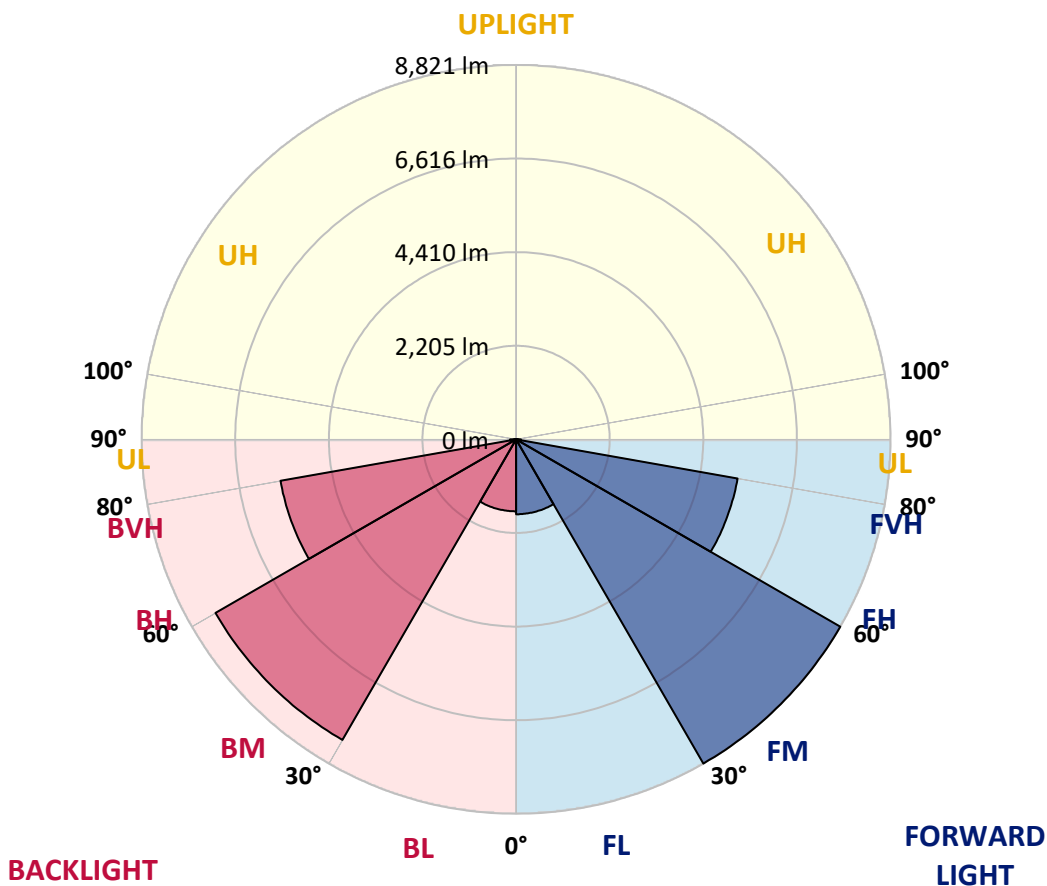
CATALOG NUMBER: GWS-SA5F-722-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1764.7	5.6			
FM (30°-60°)	8820.8	27.9			
FH (60°-80°)	5298.9	16.7			G3/7500
FVH (80°-90°)	114.8	0.4			G2/225
BL (0°-30°)	1696.0	5.4	B3/2500		
BM (30°-60°)	8178.3	25.8	B4/8500		
BH (60°-80°)	5635.0	17.8	B5		G5
BVH (80°-90°)	140.6	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





REPORT NUMBER: P640998
 CATALOG NUMBER: GWS-SA5F-722-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6
2.5°	3138.5	3142.9	3149.5	3162.8	3176.0	3195.8	3215.7	3213.5	3222.3	3228.9	3235.5
5°	3120.9	3125.3	3136.3	3153.9	3173.8	3206.8	3248.7	3266.4	3279.6	3303.8	3325.9
7.5°	3158.4	3167.2	3182.6	3206.8	3237.7	3279.6	3336.9	3367.7	3387.6	3431.7	3469.1
10°	3209.0	3220.1	3250.9	3297.2	3343.5	3407.4	3480.1	3526.4	3539.6	3597.0	3667.5
12.5°	3257.5	3270.8	3321.5	3405.2	3489.0	3574.9	3660.9	3718.2	3722.6	3799.7	3879.1
15°	3334.7	3345.7	3414.0	3522.0	3649.8	3768.9	3874.7	3914.3	3932.0	3987.1	4086.2
17.5°	3504.4	3517.6	3605.8	3722.6	3857.0	3982.7	4088.4	4121.5	4121.5	4167.8	4249.3
20°	3687.3	3700.5	3817.4	3967.2	4130.3	4258.2	4339.7	4308.8	4297.8	4311.1	4368.4
22.5°	3892.3	3916.5	4028.9	4203.1	4403.6	4560.1	4602.0	4509.4	4478.6	4447.7	4460.9
25°	4154.6	4183.2	4293.4	4478.6	4674.7	4840.0	4864.3	4721.0	4703.4	4595.4	4555.7
27.5°	4456.5	4478.6	4615.2	4798.1	4981.1	5119.9	5146.4	4970.1	4910.5	4760.7	4668.1
30°	4846.6	4866.5	4985.5	5166.2	5324.9	5421.9	5454.9	5212.5	5166.2	4937.0	4793.7
32.5°	5272.0	5280.8	5402.0	5576.2	5717.2	5809.8	5763.5	5481.4	5413.1	5155.2	4959.0
35°	5759.1	5759.1	5915.6	6056.6	6169.0	6195.5	6107.3	5785.5	5706.2	5426.3	5181.6
37.5°	6237.4	6250.6	6396.1	6563.6	6662.7	6658.3	6497.4	6144.8	6054.4	5750.3	5479.2
40°	6755.3	6784.0	6929.4	7116.8	7211.5	7198.3	6951.5	6559.1	6466.6	6107.3	5842.8
42.5°	7231.4	7277.7	7447.4	7639.1	7742.7	7733.9	7476.0	7035.2	6944.9	6539.3	6274.8
45°	7610.5	7659.0	7870.5	8137.2	8302.5	8287.1	8027.0	7528.9	7418.7	6993.3	6702.4
47.5°	7943.3	7994.0	8229.8	8511.9	8774.2	8800.6	8562.6	8027.0	7910.2	7480.4	7152.0
50°	8198.9	8223.2	8487.7	8796.2	9100.4	9248.0	9040.9	8527.3	8386.3	7960.9	7590.6
52.5°	8179.1	8212.2	8538.4	8957.1	9364.9	9607.3	9464.0	8999.0	8862.3	8399.5	8038.0
55°	7775.8	7808.8	8196.7	8807.2	9512.5	9869.6	9854.2	9448.6	9349.4	8846.9	8503.1
57.5°	7187.3	7260.0	7645.7	8304.7	9318.6	10079.0	10140.7	9858.6	9755.0	9285.5	8963.7
60°	6133.8	6230.8	6676.0	7531.1	8697.0	10008.4	10447.0	10204.6	10140.7	9693.3	9380.3
62.5°	4456.5	4527.0	5119.9	6241.8	7775.8	9505.9	10704.9	10561.6	10513.2	10059.1	9757.2
65°	2669.1	2830.0	3306.0	4414.6	6272.6	8558.2	10563.8	11028.9	10978.2	10436.0	10079.0
67.5°	1351.1	1423.8	1611.1	2393.6	4218.5	7081.5	9856.4	11319.8	11381.5	10757.8	10193.6
70°	837.5	857.4	910.3	1181.4	2107.0	4652.7	8060.1	10561.6	10863.6	10707.1	9896.0
72.5°	672.2	676.6	685.4	736.1	1011.6	2175.4	5095.7	8271.7	8816.1	9999.6	9470.7
75°	557.6	559.8	562.0	577.5	630.3	888.2	2479.5	5684.2	6321.1	8498.7	8780.8
77.5°	447.4	436.4	445.2	451.8	465.0	495.9	855.2	3032.7	3678.5	5578.4	6790.6
80°	290.9	286.5	304.2	310.8	324.0	343.8	456.2	1029.3	1249.7	2029.9	2159.9
82.5°	156.5	147.7	185.1	178.5	185.1	200.6	268.9	376.9	423.2	612.7	517.9
85°	48.5	48.5	50.7	59.5	72.7	70.5	116.8	185.1	205.0	262.3	194.0
87.5°	8.8	8.8	8.8	8.8	8.8	11.0	24.2	37.5	50.7	90.4	68.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640998

CATALOG NUMBER: GWS-SA5F-722-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6
2.5°	3248.7	3228.9	3239.9	3246.5	3244.3	3239.9	3217.9	3213.5	3202.4	3184.8	3180.4
5°	3345.7	3323.7	3325.9	3319.2	3297.2	3268.6	3220.1	3195.8	3176.0	3153.9	3151.7
7.5°	3497.8	3473.5	3466.9	3436.1	3374.3	3308.2	3231.1	3187.0	3153.9	3125.3	3120.9
10°	3691.7	3667.5	3645.4	3572.7	3471.3	3383.2	3281.8	3217.9	3169.4	3134.1	3127.5
12.5°	3907.7	3887.9	3832.8	3727.0	3605.8	3502.2	3398.6	3319.2	3248.7	3195.8	3189.2
15°	4148.0	4103.9	4020.1	3883.5	3768.9	3685.1	3559.5	3451.5	3339.1	3268.6	3253.1
17.5°	4315.5	4278.0	4178.8	4046.6	3956.2	3883.5	3735.8	3581.5	3429.4	3325.9	3303.8
20°	4434.5	4394.8	4282.4	4185.4	4156.8	4095.1	3923.1	3744.6	3568.3	3440.5	3411.8
22.5°	4520.4	4478.6	4363.9	4315.5	4355.1	4344.1	4176.6	3973.8	3764.5	3612.4	3577.1
25°	4602.0	4562.3	4460.9	4478.6	4584.4	4617.4	4436.7	4200.9	3962.8	3784.3	3742.4
27.5°	4679.1	4628.4	4582.1	4679.1	4829.0	4890.7	4699.0	4432.3	4174.4	3991.5	3958.4
30°	4798.1	4738.6	4732.0	4873.1	5111.1	5164.0	4952.4	4685.7	4430.1	4244.9	4203.1
32.5°	4948.0	4892.9	4897.3	5108.9	5384.4	5428.5	5247.8	4998.7	4743.0	4557.9	4500.6
35°	5150.8	5082.5	5119.9	5380.0	5657.7	5739.3	5593.8	5386.6	5137.6	4948.0	4884.1
37.5°	5430.7	5331.5	5408.7	5682.0	5961.9	6083.1	5970.7	5816.4	5569.5	5377.8	5318.3
40°	5787.7	5706.2	5737.1	6039.0	6327.7	6473.2	6402.7	6250.6	6005.9	5805.4	5737.1
42.5°	6210.9	6129.4	6118.3	6440.1	6728.9	6949.3	6880.9	6742.1	6488.6	6259.4	6193.3
45°	6625.3	6550.3	6565.8	6894.2	7218.1	7458.4	7390.1	7227.0	6951.5	6687.0	6634.1
47.5°	7057.3	6995.5	7008.8	7357.0	7714.1	7954.3	7868.3	7670.0	7348.2	7066.1	7002.2
50°	7500.3	7429.7	7449.6	7815.4	8201.1	8428.2	8295.9	8002.8	7647.9	7372.4	7317.3
52.5°	7941.1	7857.3	7908.0	8254.0	8653.0	8833.7	8589.0	8234.2	7890.4	7617.1	7555.4
55°	8448.0	8359.8	8304.7	8675.0	9069.5	9144.5	8809.4	8395.1	7987.4	7676.6	7639.1
57.5°	8910.8	8835.9	8732.3	9102.6	9393.5	9338.4	8979.2	8351.0	7751.5	7352.6	7299.7
60°	9325.2	9261.3	9170.9	9486.1	9618.3	9494.9	8842.5	7828.7	7169.7	6753.1	6728.9
62.5°	9706.5	9638.2	9554.4	9823.3	9805.7	9519.1	8221.0	7026.4	6144.8	5697.4	5657.7
65°	10008.4	9946.7	9922.5	10134.1	10105.4	9045.3	7253.4	5712.8	4489.6	3984.9	3969.4
67.5°	10094.4	10070.1	10200.2	10559.4	10112.0	8093.1	5688.6	3788.7	2411.2	1932.9	1904.3
70°	9772.6	9770.4	10142.9	10656.4	9195.2	6182.3	3356.7	1708.1	1212.2	1075.6	1057.9
72.5°	9353.8	9347.2	9642.6	9192.9	6819.2	3383.2	1412.8	914.7	758.2	720.7	720.7
75°	8666.2	8648.6	8871.2	6993.3	3835.0	1273.9	749.4	628.1	595.1	588.5	588.5
77.5°	7063.9	6916.2	6565.8	4322.1	1337.8	625.9	495.9	493.7	473.9	471.7	471.7
80°	2323.0	2323.0	2699.9	1648.6	590.7	385.7	350.4	368.1	348.2	335.0	332.8
82.5°	379.1	522.4	742.8	471.7	319.6	240.2	216.0	229.2	240.2	191.7	191.7
85°	149.9	196.2	286.5	220.4	147.7	97.0	103.6	114.6	101.4	88.2	86.0
87.5°	57.3	70.5	101.4	52.9	30.9	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)