

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: P638853

Luminaire Tested: GWS-SA4F-760-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638853
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-SA4F-760-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35337.4 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

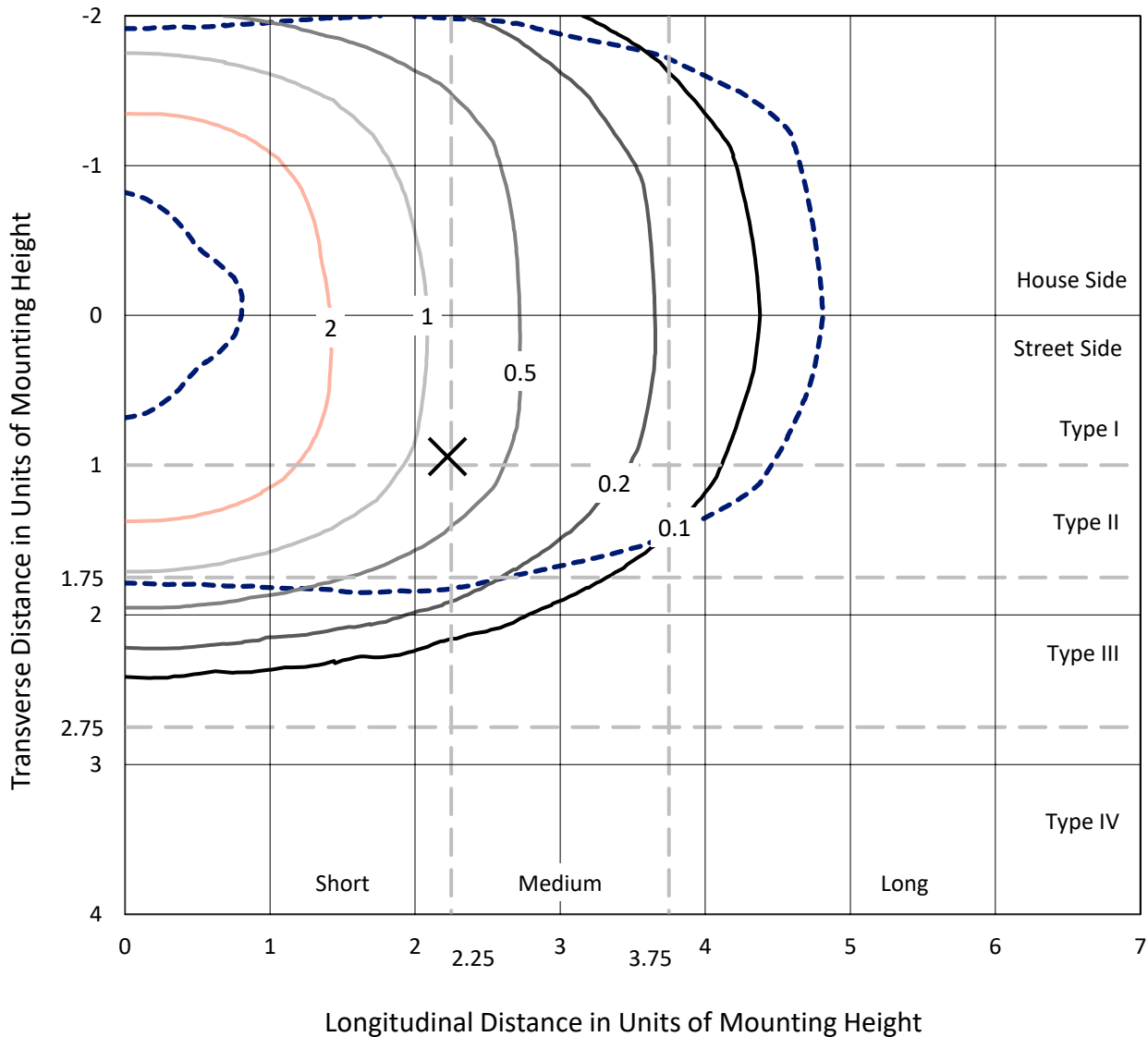
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

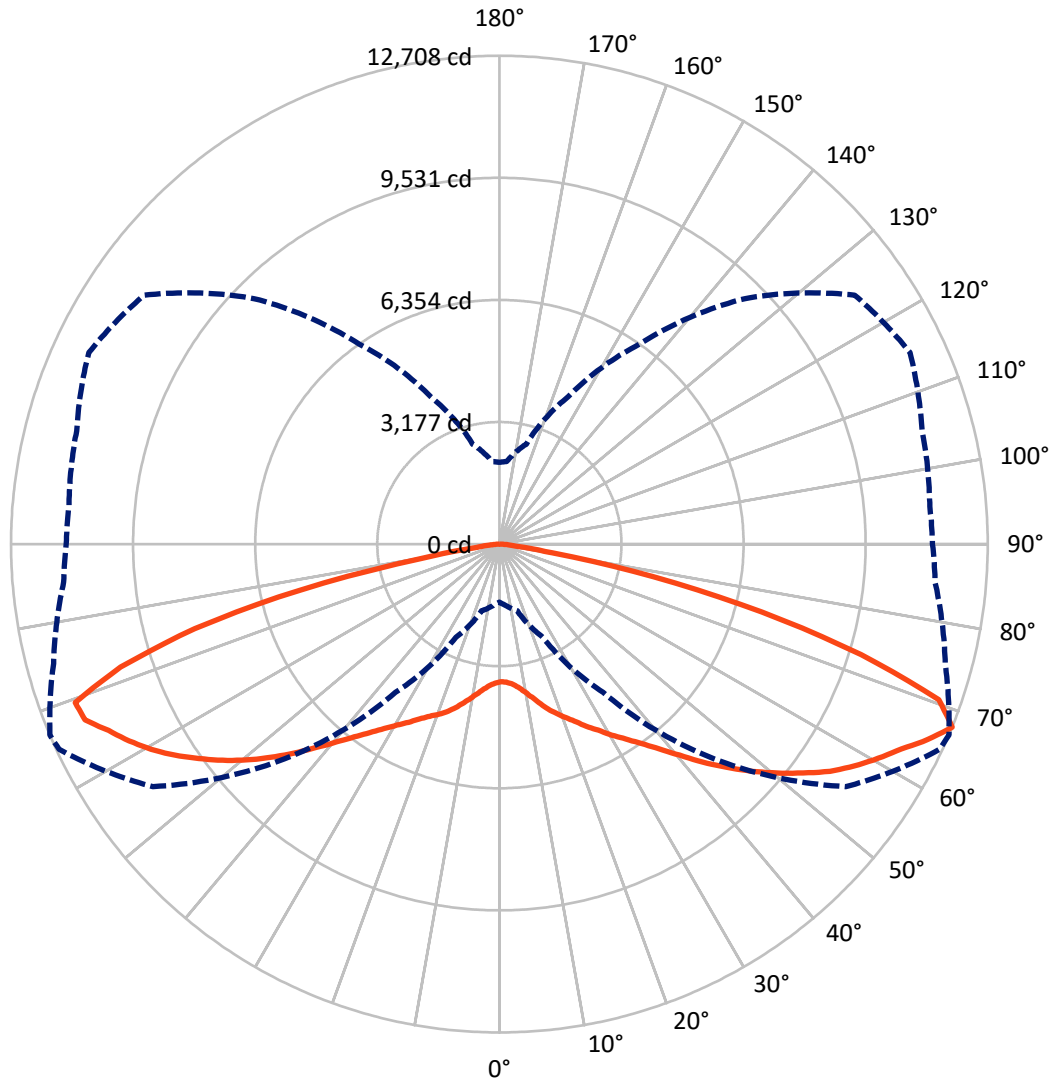
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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	17473.7	0.0	17473.7
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	17863.7	0.0	17863.7
	% Fixture	50.6	0.0	50.6
Total	Lumens	35337.4	0.0	35337.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	1.0
10°-20°	1186.0	3.4
20°-30°	2326.9	6.6
30°-40°	3964.3	11.2
40°-50°	6365.9	18.0
50°-60°	8649.9	24.5
60°-70°	8274.3	23.4
70°-80°	3933.9	11.1
80°-90°	285.1	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°	35337.4	100.0
0°-180°	35337.4	100.0

Coefficient of Utilization



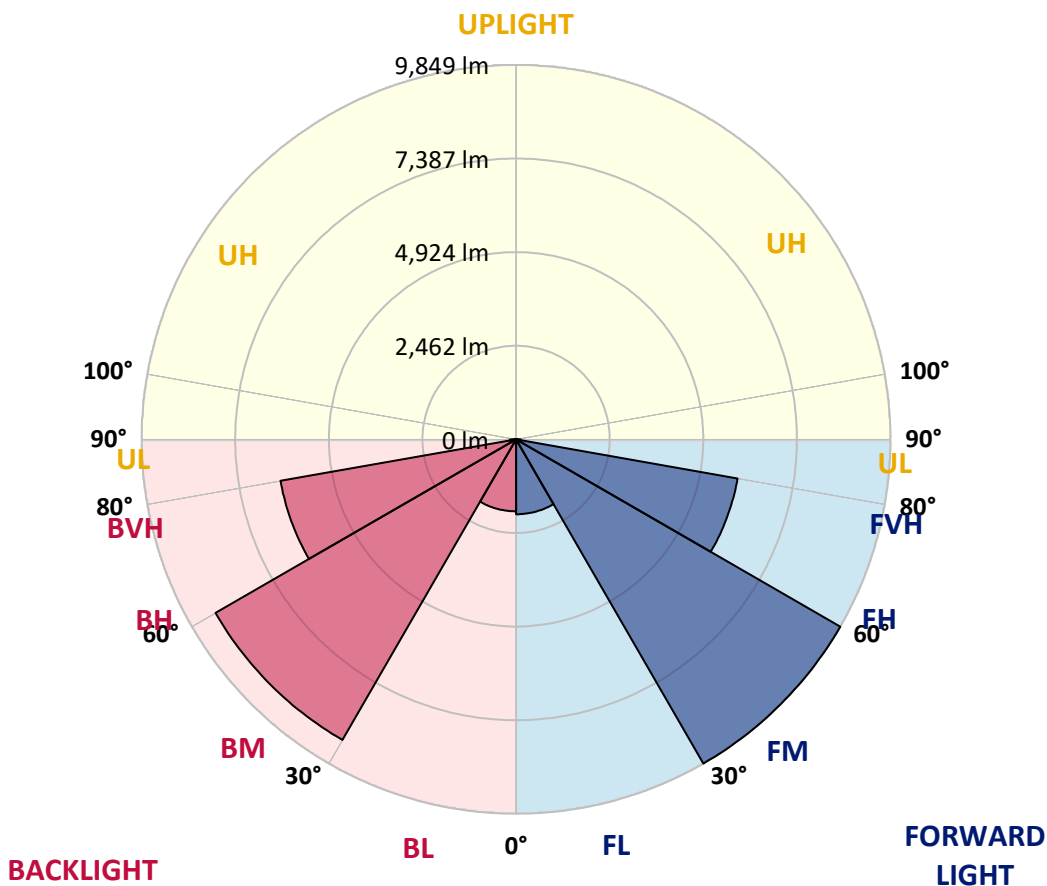
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1970.3	5.6			
FM (30°-60°)	9848.8	27.9			
FH (60°-80°)	5916.4	16.7			G3/7500
FVH (80°-90°)	128.1	0.4			G2/225
BL (0°-30°)	1893.7	5.4	B3/2500		
BM (30°-60°)	9131.3	25.8	B5		
BH (60°-80°)	6291.7	17.8	B5		G5
BVH (80°-90°)	156.9	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°	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1
2.5°	3504.3	3509.2	3516.6	3531.4	3546.1	3568.3	3590.4	3588.0	3597.8	3605.2	3612.6
5°	3484.6	3489.5	3501.8	3521.5	3543.7	3580.6	3627.3	3647.0	3661.8	3688.8	3713.5
7.5°	3526.4	3536.3	3553.5	3580.6	3615.0	3661.8	3725.8	3760.2	3782.4	3831.6	3873.4
10°	3583.0	3595.3	3629.8	3681.5	3733.1	3804.5	3885.7	3937.4	3952.2	4016.1	4094.9
12.5°	3637.2	3651.9	3708.5	3802.0	3895.6	3991.5	4087.5	4151.5	4156.4	4242.5	4331.1
15°	3723.3	3735.6	3811.9	3932.5	4075.2	4208.1	4326.2	4370.5	4390.2	4451.7	4562.5
17.5°	3912.8	3927.6	4026.0	4156.4	4306.5	4446.8	4564.9	4601.8	4601.8	4653.5	4744.6
20°	4117.0	4131.8	4262.2	4429.6	4611.7	4754.4	4845.5	4811.0	4798.7	4813.5	4877.4
22.5°	4345.9	4373.0	4498.5	4692.9	4916.8	5091.5	5138.3	5034.9	5000.5	4966.0	4980.8
25°	4638.7	4670.7	4793.8	5000.5	5219.5	5404.1	5431.1	5271.2	5251.5	5130.9	5086.6
27.5°	4975.9	5000.5	5153.1	5357.3	5561.6	5716.6	5746.1	5549.3	5482.8	5315.5	5212.1
30°	5411.5	5433.6	5566.5	5768.3	5945.5	6053.7	6090.7	5820.0	5768.3	5512.4	5352.4
32.5°	5886.4	5896.3	6031.6	6226.0	6383.5	6486.9	6435.2	6120.2	6043.9	5756.0	5537.0
35°	6430.3	6430.3	6605.0	6762.5	6888.0	6917.5	6819.1	6459.8	6371.2	6058.7	5785.5
37.5°	6964.3	6979.0	7141.5	7328.5	7439.2	7434.3	7254.7	6860.9	6760.0	6420.4	6117.7
40°	7542.6	7574.6	7737.0	7946.2	8052.0	8037.2	7761.6	7323.6	7220.2	6819.1	6523.8
42.5°	8074.1	8125.8	8315.3	8529.4	8645.0	8635.2	8347.3	7855.1	7754.2	7301.4	7006.1
45°	8497.4	8551.5	8787.8	9085.5	9270.1	9252.9	8962.5	8406.3	8283.3	7808.3	7483.5
47.5°	8869.0	8925.6	9188.9	9503.9	9796.7	9826.3	9560.5	8962.5	8832.1	8352.2	7985.5
50°	9154.4	9181.5	9476.8	9821.3	10160.9	10325.8	10094.5	9521.1	9363.6	8888.7	8475.2
52.5°	9132.3	9169.2	9533.4	10001.0	10456.2	10726.9	10567.0	10047.7	9895.2	9378.4	8974.8
55°	8682.0	8718.9	9152.0	9833.6	10621.1	11019.8	11002.6	10549.8	10439.0	9877.9	9494.0
57.5°	8024.9	8106.1	8536.8	9272.6	10404.6	11253.6	11322.5	11007.5	10891.8	10367.7	10008.4
60°	6848.6	6956.9	7454.0	8408.8	9710.6	11174.8	11664.5	11393.8	11322.5	10822.9	10473.5
62.5°	4975.9	5054.6	5716.6	6969.2	8682.0	10613.7	11952.5	11792.5	11738.4	11231.4	10894.3
65°	2980.1	3159.8	3691.3	4929.1	7003.6	9555.6	11795.0	12314.2	12257.6	11652.2	11253.6
67.5°	1508.5	1589.7	1798.9	2672.5	4710.1	7906.8	11005.0	12639.0	12707.9	12011.5	11381.5
70°	935.1	957.3	1016.3	1319.0	2352.6	5194.9	8999.4	11792.5	12129.6	11954.9	11049.3
72.5°	750.6	755.5	765.3	821.9	1129.5	2428.9	5689.5	9235.7	9843.5	11165.0	10574.4
75°	622.6	625.1	627.5	644.7	703.8	991.7	2768.5	6346.6	7057.8	9489.1	9804.1
77.5°	499.6	487.3	497.1	504.5	519.2	553.7	954.8	3386.2	4107.2	6228.5	7581.9
80°	324.8	319.9	339.6	347.0	361.7	383.9	509.4	1149.2	1395.3	2266.5	2411.7
82.5°	174.7	164.9	206.7	199.3	206.7	223.9	300.2	420.8	472.5	684.1	578.3
85°	54.1	54.1	56.6	66.4	81.2	78.7	130.4	206.7	228.9	292.8	216.6
87.5°	9.8	9.8	9.8	9.8	9.8	12.3	27.1	41.8	56.6	100.9	76.3
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°	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1	3578.1
2.5°	3627.3	3605.2	3617.5	3624.9	3622.4	3617.5	3592.9	3588.0	3575.6	3556.0	3551.0
5°	3735.6	3711.0	3713.5	3706.1	3681.5	3649.5	3595.3	3568.3	3546.1	3521.5	3519.0
7.5°	3905.4	3878.3	3871.0	3836.5	3767.6	3693.8	3607.6	3558.4	3521.5	3489.5	3484.6
10°	4122.0	4094.9	4070.3	3989.1	3875.9	3777.4	3664.2	3592.9	3538.7	3499.4	3492.0
12.5°	4363.1	4341.0	4279.5	4161.3	4026.0	3910.3	3794.7	3706.1	3627.3	3568.3	3560.9
15°	4631.4	4582.1	4488.6	4336.1	4208.1	4114.6	3974.3	3853.7	3728.2	3649.5	3632.2
17.5°	4818.4	4776.6	4665.8	4518.2	4417.3	4336.1	4171.2	3998.9	3829.1	3713.5	3688.8
20°	4951.3	4907.0	4781.5	4673.2	4641.2	4572.3	4380.4	4181.0	3984.2	3841.4	3809.4
22.5°	5047.2	5000.5	4872.5	4818.4	4862.7	4850.4	4663.4	4437.0	4203.2	4033.4	3994.0
25°	5138.3	5094.0	4980.8	5000.5	5118.6	5155.5	4953.7	4690.4	4424.6	4225.3	4178.6
27.5°	5224.4	5167.8	5116.2	5224.4	5391.8	5460.7	5246.6	4948.8	4660.9	4456.6	4419.7
30°	5357.3	5290.9	5283.5	5441.0	5706.8	5765.8	5529.6	5231.8	4946.4	4739.6	4692.9
32.5°	5524.7	5463.1	5468.1	5704.3	6011.9	6061.1	5859.3	5581.3	5295.8	5089.1	5025.1
35°	5751.1	5674.8	5716.6	6007.0	6317.1	6408.1	6245.7	6014.4	5736.3	5524.7	5453.3
37.5°	6063.6	5952.9	6039.0	6344.1	6656.7	6792.0	6666.5	6494.2	6218.6	6004.5	5938.1
40°	6462.3	6371.2	6405.7	6742.8	7065.2	7227.6	7148.8	6979.0	6705.9	6481.9	6405.7
42.5°	6934.7	6843.7	6831.4	7190.7	7513.0	7759.1	7682.8	7527.8	7244.8	6988.9	6915.1
45°	7397.4	7313.7	7330.9	7697.6	8059.4	8327.6	8251.3	8069.2	7761.6	7466.3	7407.2
47.5°	7879.7	7810.8	7825.6	8214.4	8613.1	8881.3	8785.3	8563.8	8204.5	7889.6	7818.2
50°	8374.3	8295.6	8317.7	8726.3	9156.9	9410.4	9262.7	8935.4	8539.2	8231.6	8170.1
52.5°	8866.5	8773.0	8829.6	9216.0	9661.4	9863.2	9590.0	9193.8	8809.9	8504.8	8435.9
55°	9432.5	9334.1	9272.6	9686.0	10126.5	10210.2	9836.1	9373.5	8918.2	8571.2	8529.4
57.5°	9949.3	9865.6	9750.0	10163.4	10488.2	10426.7	10025.6	9324.2	8654.9	8209.5	8150.4
60°	10412.0	10340.6	10239.7	10591.6	10739.2	10601.4	9873.0	8741.0	8005.2	7540.1	7513.0
62.5°	10837.7	10761.4	10667.9	10968.1	10948.4	10628.5	9179.1	7845.3	6860.9	6361.4	6317.1
65°	11174.8	11105.9	11078.8	11315.1	11283.1	10099.4	8098.7	6378.6	5012.8	4449.3	4432.0
67.5°	11270.8	11243.7	11388.9	11790.0	11290.5	9036.3	6351.5	4230.2	2692.2	2158.2	2126.2
70°	10911.5	10909.0	11324.9	11898.3	10266.8	6902.7	3747.9	1907.2	1353.5	1200.9	1181.2
72.5°	10443.9	10436.6	10766.3	10264.3	7613.9	3777.4	1577.4	1021.3	846.5	804.7	804.7
75°	9676.2	9656.5	9905.0	7808.3	4281.9	1422.4	836.7	701.3	664.4	657.1	657.1
77.5°	7887.1	7722.2	7330.9	4825.8	1493.7	698.9	553.7	551.2	529.1	526.6	526.6
80°	2593.8	2593.8	3014.6	1840.7	659.5	430.7	391.3	411.0	388.8	374.1	371.6
82.5°	423.3	583.2	829.3	526.6	356.8	268.2	241.2	255.9	268.2	214.1	214.1
85°	167.3	219.0	319.9	246.1	164.9	108.3	115.7	128.0	113.2	98.4	96.0
87.5°	64.0	78.7	113.2	59.1	34.5	19.7	12.3	12.3	9.8	9.8	9.8
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)