

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: P638038

Luminaire Tested: GWS-SA4E-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21648.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

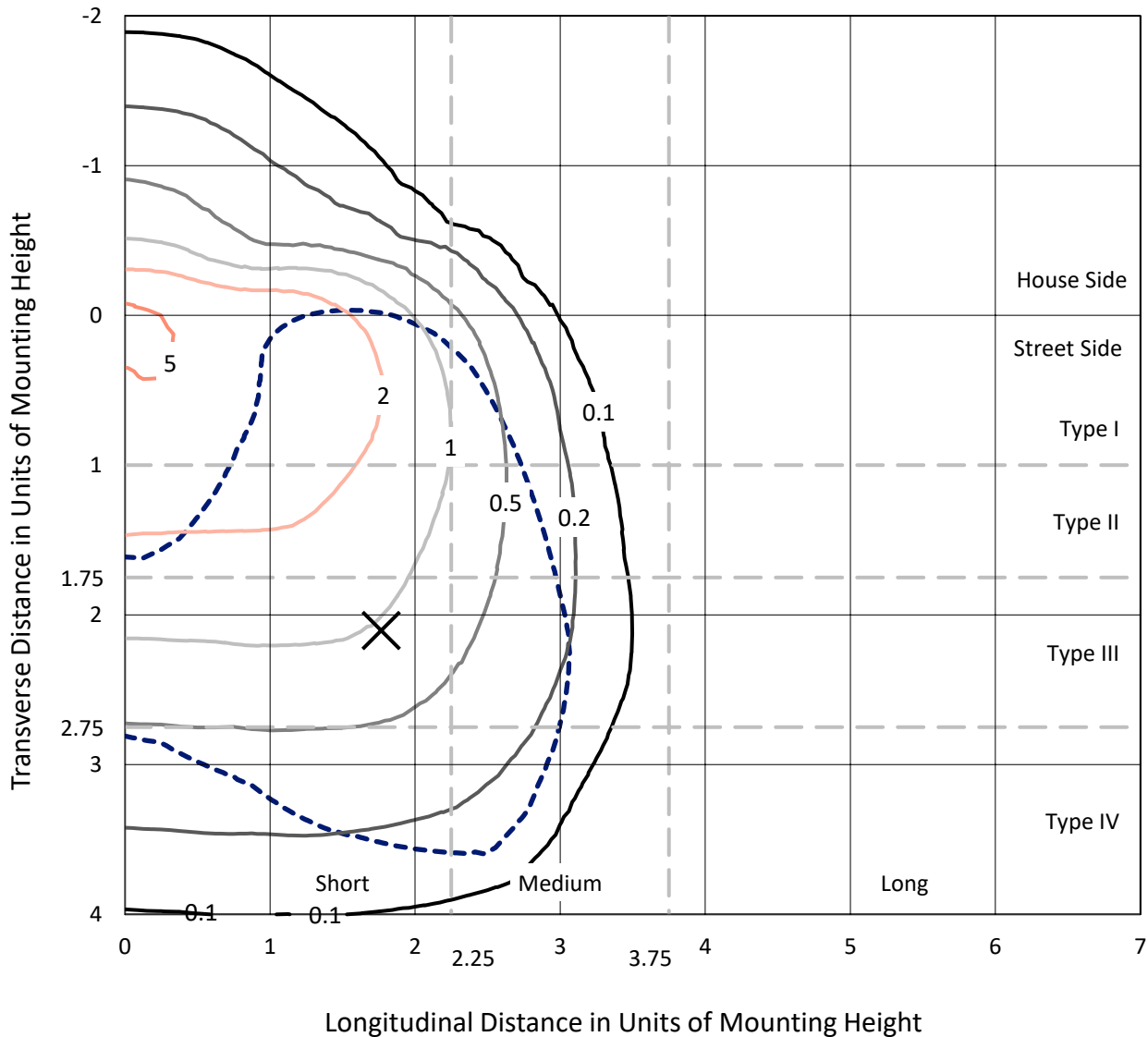
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

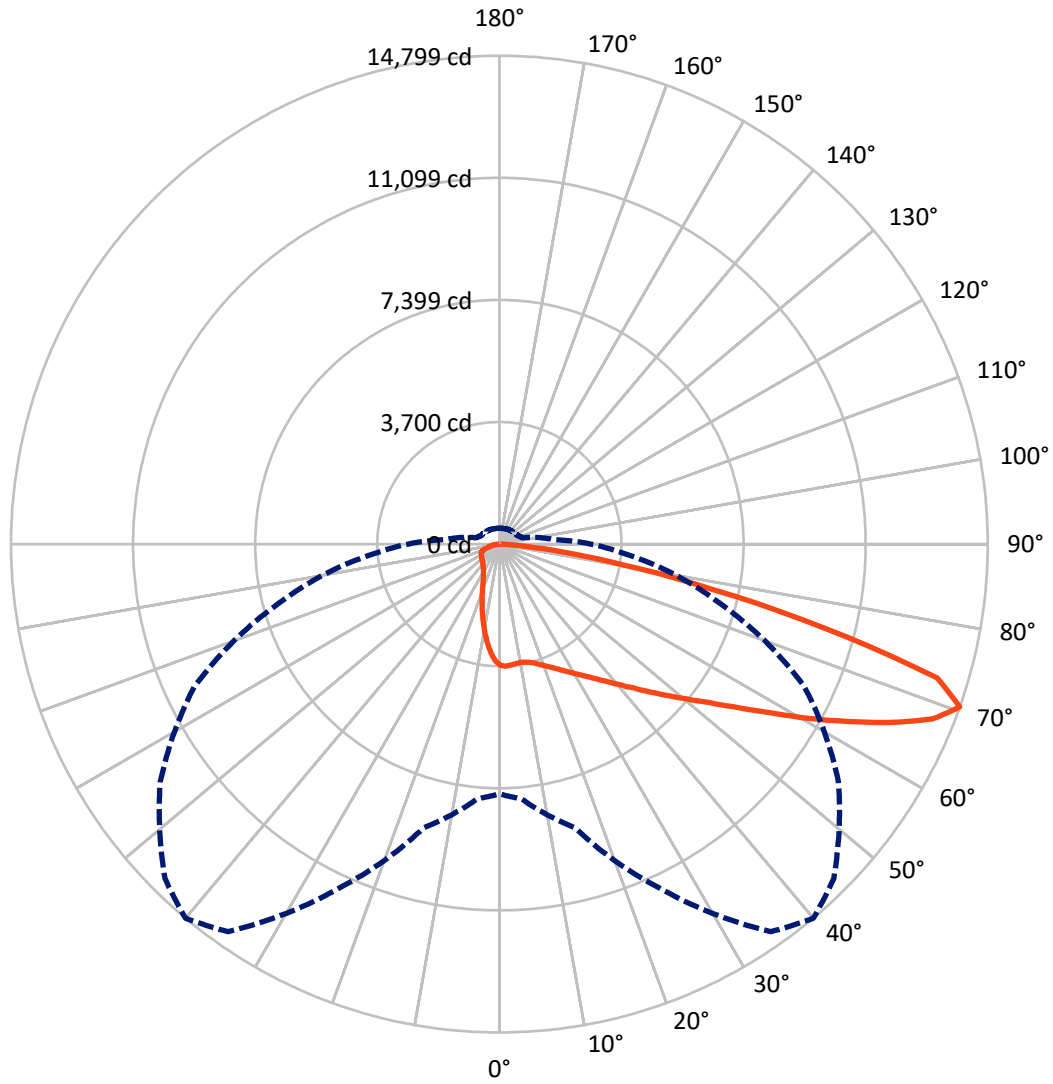
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3334.5	0.0	3334.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	18314.4	0.0	18314.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	21648.9	0.0	21648.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	1.5
10°-20°	846.5	3.9
20°-30°	1329.2	6.1
30°-40°	1998.5	9.2
40°-50°	3084.7	14.2
50°-60°	4581.1	21.2
60°-70°	5774.3	26.7
70°-80°	3339.3	15.4
80°-90°	370.6	1.7
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°	21648.9	100.0
0°-180°	21648.9	100.0

Coefficient of Utilization



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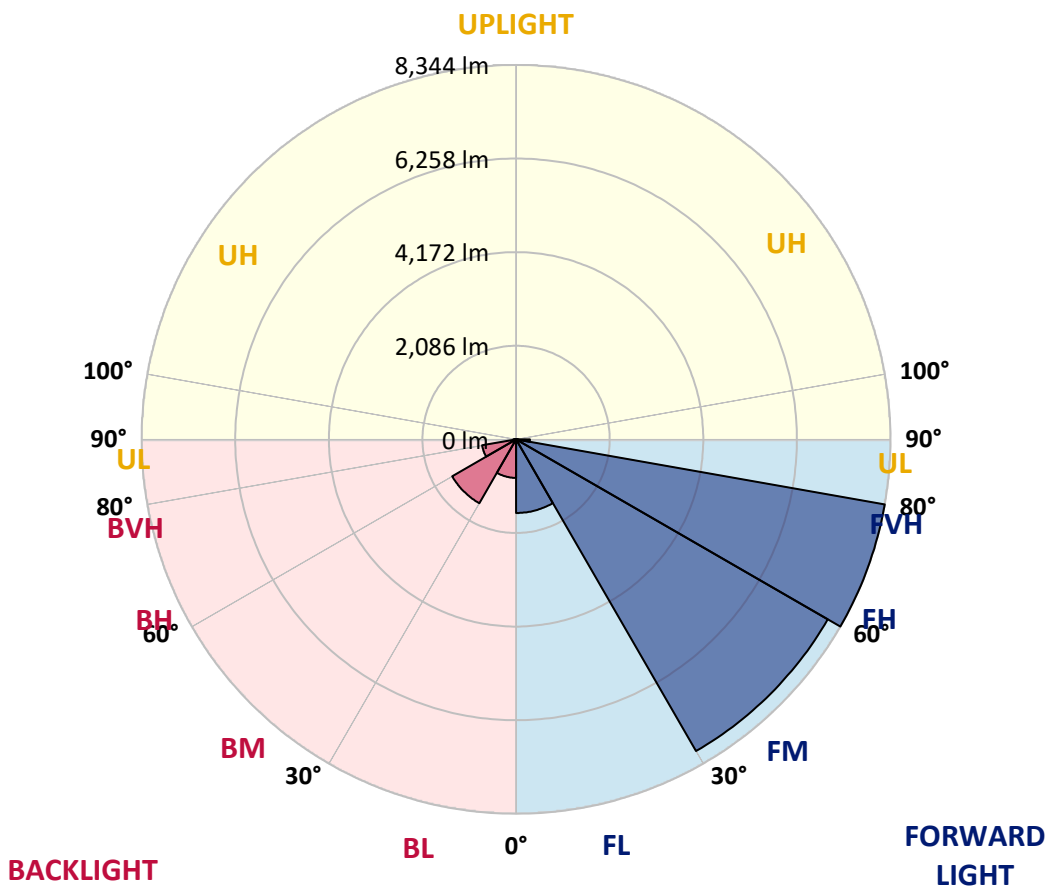
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1641.1	7.6			
FM (30°-60°)	8020.6	37.0			
FH (60°-80°)	8344.0	38.5			G4/12000
FVH (80°-90°)	308.6	1.4			G3/500
BL (0°-30°)	859.3	4.0	B2/1000		
BM (30°-60°)	1643.6	7.6	B2/2500		
BH (60°-80°)	769.6	3.6	B2/1000		G2/1000
BVH (80°-90°)	61.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2
2.5°	3698.9	3705.3	3710.2	3716.6	3713.4	3703.7	3711.8	3711.8	3694.0	3674.6	3656.8
5°	3703.7	3711.8	3710.2	3708.5	3695.6	3679.5	3679.5	3669.8	3639.1	3608.4	3579.3
7.5°	3694.0	3692.4	3690.8	3685.9	3671.4	3653.6	3650.4	3631.0	3590.6	3548.6	3506.6
10°	3650.4	3648.8	3653.6	3664.9	3661.7	3645.5	3645.5	3627.8	3580.9	3529.2	3474.2
12.5°	3614.8	3614.8	3634.2	3664.9	3676.2	3669.8	3671.4	3658.5	3605.1	3543.7	3479.1
15°	3619.7	3621.3	3663.3	3713.4	3734.4	3729.6	3731.2	3716.6	3656.8	3595.4	3508.2
17.5°	3652.0	3660.1	3732.8	3802.3	3829.7	3823.3	3812.0	3787.7	3719.9	3650.4	3543.7
20°	3719.9	3732.8	3826.5	3913.8	3946.1	3931.5	3912.2	3863.7	3789.3	3713.4	3582.5
22.5°	3854.0	3862.1	3965.5	4051.1	4077.0	4059.2	4020.4	3950.9	3865.3	3786.1	3629.4
25°	4043.0	4052.7	4151.3	4230.5	4224.0	4203.0	4149.7	4064.1	3962.3	3878.2	3697.2
27.5°	4267.7	4283.8	4380.8	4443.8	4401.8	4371.1	4311.3	4207.9	4093.1	4017.2	3800.7
30°	4513.3	4519.7	4602.2	4665.2	4600.5	4558.5	4485.8	4374.3	4270.9	4214.3	3955.8
32.5°	4750.8	4757.3	4828.4	4863.9	4796.1	4765.4	4702.3	4584.4	4511.7	4481.0	4186.9
35°	5001.3	4999.7	5057.8	5088.6	5019.1	5006.1	4941.5	4851.0	4838.1	4878.5	4524.6
37.5°	5251.8	5237.2	5267.9	5308.3	5269.5	5282.5	5240.4	5209.7	5259.8	5364.9	4973.8
40°	5452.1	5452.1	5484.5	5534.5	5547.5	5604.0	5579.8	5620.2	5781.8	6032.3	5529.7
42.5°	5629.9	5631.5	5699.4	5776.9	5870.7	5957.9	5977.3	6082.3	6416.8	6809.5	6227.8
45°	5815.7	5817.3	5909.4	6022.6	6221.3	6387.8	6426.5	6662.5	7140.8	7619.1	6985.6
47.5°	6030.6	6012.9	6140.5	6329.6	6612.4	6851.5	6951.7	7286.2	7890.6	8478.8	7699.9
50°	6273.0	6235.9	6378.1	6704.5	7053.5	7381.5	7549.6	7932.6	8695.3	9272.2	8372.1
52.5°	6546.1	6525.1	6673.8	7071.3	7604.5	7982.7	8210.5	8713.1	9477.4	10062.4	8905.4
55°	6885.5	6835.4	7050.3	7556.1	8250.9	8732.5	9002.3	9485.5	10332.2	10779.8	9312.6
57.5°	7257.1	7202.2	7489.8	8162.0	9091.2	9619.6	9957.3	10354.9	11137.0	11329.3	9551.7
60°	7657.9	7640.1	7981.1	8873.0	10093.1	10707.1	10951.1	11311.5	11836.7	11647.6	9491.9
62.5°	8024.7	8018.2	8514.3	9643.8	11154.7	11830.2	12024.1	12119.4	12340.8	11626.6	9016.9
65°	8410.9	8465.8	9136.4	10537.5	12371.5	13034.1	13114.9	12872.5	12510.5	11075.6	8044.1
67.5°	8459.4	8566.0	9527.5	11374.5	13525.3	14150.7	14086.0	13158.5	12009.6	9542.0	6305.3
70°	7565.8	7751.6	8903.8	11502.2	14338.1	14798.6	14331.6	12542.8	10191.6	6912.9	3965.5
72.5°	6321.5	6481.5	7499.5	9808.7	13289.4	13876.0	13244.1	10616.6	7202.2	3965.5	2019.9
75°	4920.5	5106.3	6045.2	7796.8	9949.3	10183.6	9866.8	7404.2	3959.0	1635.3	917.8
77.5°	3002.4	3136.5	3866.9	5282.5	6961.4	6610.8	5602.4	4151.3	1737.1	783.7	567.2
80°	1328.3	1410.7	1905.2	2837.6	4022.0	3802.3	2997.5	1772.7	950.2	497.7	395.9
82.5°	712.6	765.9	938.9	1123.1	1766.2	1847.0	1498.0	1021.3	510.6	284.4	226.2
85°	313.5	344.2	426.6	407.2	580.1	570.4	575.3	701.3	244.0	130.9	147.0
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	17.8	93.7	24.2	38.8	33.9
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°	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2	3676.2
2.5°	3637.4	3608.4	3600.3	3590.6	3572.8	3542.1	3519.5	3493.6	3482.3	3469.4	3471.0
5°	3547.0	3511.4	3477.5	3433.8	3378.9	3317.5	3275.5	3227.0	3201.1	3176.9	3183.4
7.5°	3469.4	3414.5	3345.0	3252.9	3154.3	3044.4	2955.5	2886.0	2839.2	2806.9	2823.0
10°	3420.9	3356.3	3235.1	3084.8	2918.4	2750.3	2622.6	2503.1	2428.7	2370.6	2367.3
12.5°	3411.2	3327.2	3151.1	2932.9	2692.1	2467.5	2280.1	2118.5	2019.9	1947.2	1974.7
15°	3420.9	3314.3	3078.3	2792.3	2488.5	2184.7	1952.0	1766.2	1648.2	1582.0	1577.1
17.5°	3432.2	3301.3	2995.9	2640.4	2275.2	1927.8	1657.9	1460.8	1339.6	1273.3	1275.0
20°	3441.9	3281.9	2899.0	2474.0	2058.7	1688.6	1409.1	1221.6	1113.4	1064.9	1073.0
22.5°	3458.1	3262.6	2795.6	2296.2	1837.3	1457.6	1211.9	1060.0	995.4	963.1	964.7
25°	3488.8	3251.2	2688.9	2102.3	1619.2	1273.3	1076.2	974.4	934.0	914.6	913.0
27.5°	3551.8	3260.9	2577.4	1914.9	1422.0	1132.8	988.9	922.7	895.2	882.3	880.7
30°	3656.8	3299.7	2480.4	1724.2	1252.3	1022.9	929.2	888.8	872.6	861.3	859.7
32.5°	3816.8	3372.4	2375.4	1546.4	1115.0	942.1	882.3	861.3	850.0	843.5	843.5
35°	4059.2	3504.9	2272.0	1391.3	1008.3	879.1	845.1	837.0	827.4	824.1	827.4
37.5°	4408.2	3716.6	2178.3	1255.6	932.4	830.6	804.7	808.0	799.9	804.7	809.6
40°	4851.0	3999.4	2099.1	1144.1	875.8	795.0	769.2	780.5	775.6	780.5	788.6
42.5°	5411.7	4350.1	2039.3	1056.8	835.4	765.9	741.7	753.0	749.8	756.3	764.3
45°	6037.1	4812.2	2011.8	995.4	806.3	744.9	719.1	727.2	723.9	728.8	736.9
47.5°	6636.6	5232.4	2036.1	959.9	782.1	727.2	699.7	702.9	701.3	699.7	704.5
50°	7153.7	5566.9	2105.6	948.5	765.9	709.4	683.5	685.2	680.3	670.6	673.8
52.5°	7575.5	5835.1	2147.6	948.5	757.9	690.0	665.8	667.4	657.7	644.8	646.4
55°	7853.4	5943.4	2113.6	946.9	754.6	673.8	648.0	649.6	639.9	623.7	625.4
57.5°	7932.6	5838.3	1971.4	929.2	751.4	660.9	630.2	633.4	627.0	609.2	609.2
60°	7711.2	5453.7	1711.3	888.8	743.3	652.8	617.3	622.1	618.9	601.1	601.1
62.5°	7131.1	4770.2	1401.0	827.4	720.7	643.1	606.0	615.7	623.7	614.1	612.4
65°	6045.2	3821.7	1139.2	759.5	691.6	627.0	589.8	614.1	631.8	644.8	644.8
67.5°	4535.9	2735.8	929.2	688.4	648.0	594.7	568.8	591.4	604.4	612.4	617.3
70°	2764.8	1609.5	732.0	606.0	585.0	546.2	526.8	504.2	486.4	483.2	484.8
72.5°	1352.5	921.1	594.7	515.5	499.3	463.8	420.1	410.4	402.4	397.5	395.9
75°	744.9	641.5	491.2	428.2	399.1	355.5	345.8	329.6	326.4	320.0	321.6
77.5°	526.8	505.8	405.6	347.4	303.8	281.2	286.0	274.7	274.7	269.9	268.2
80°	395.9	397.5	311.9	253.7	224.6	216.5	221.4	221.4	218.1	216.5	214.9
82.5°	250.5	282.8	210.1	163.2	160.0	161.6	160.0	158.4	161.6	156.7	155.1
85°	172.9	203.6	127.7	97.0	97.0	95.3	98.6	97.0	100.2	95.3	95.3
87.5°	38.8	90.5	46.9	29.1	30.7	29.1	30.7	32.3	35.6	37.2	37.2
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)