

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: P637202

Luminaire Tested: GWS-SA4C-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16877.5 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 128.5
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

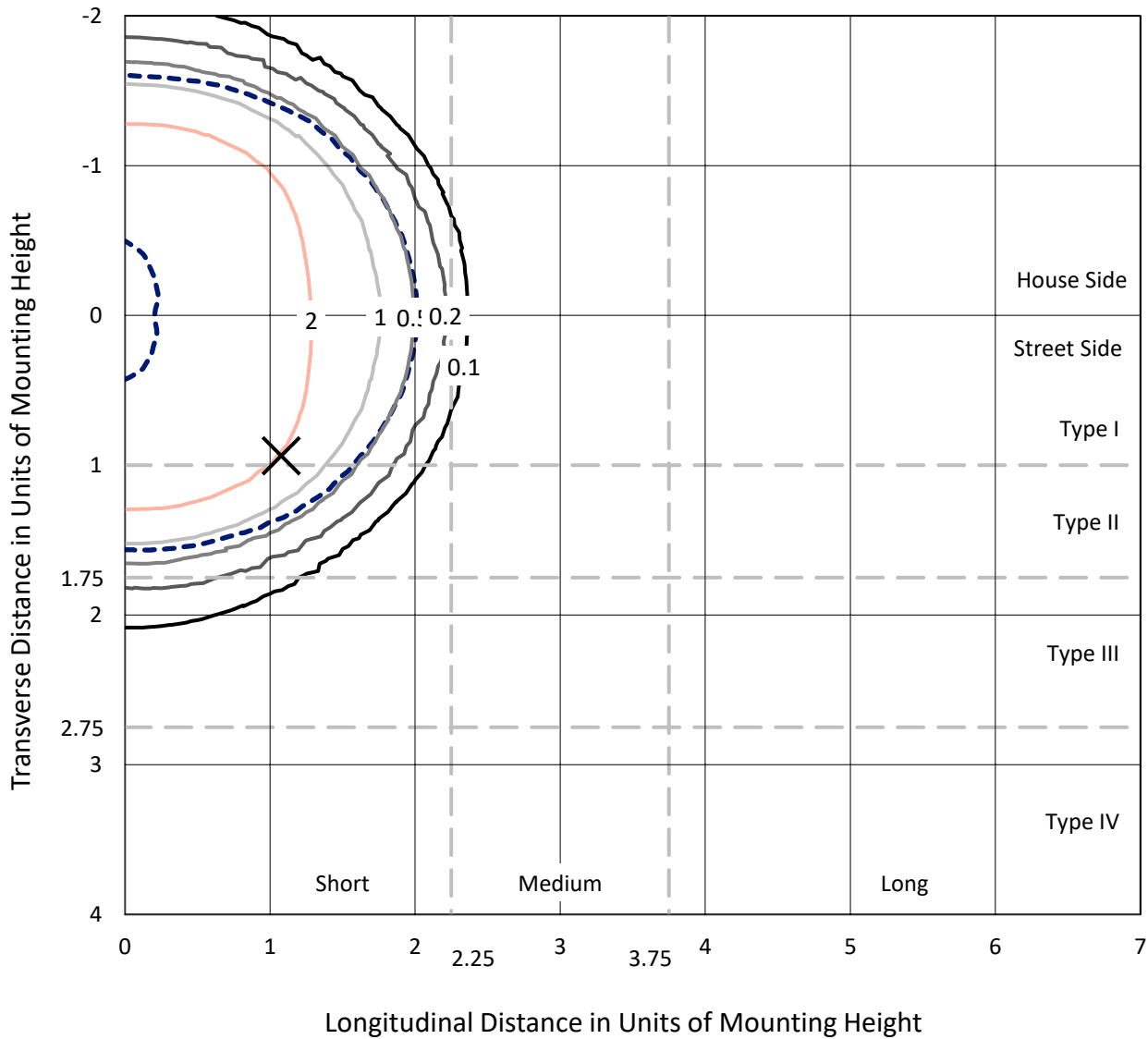


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Iso-Footcandle Lines of Horizontal Illumination

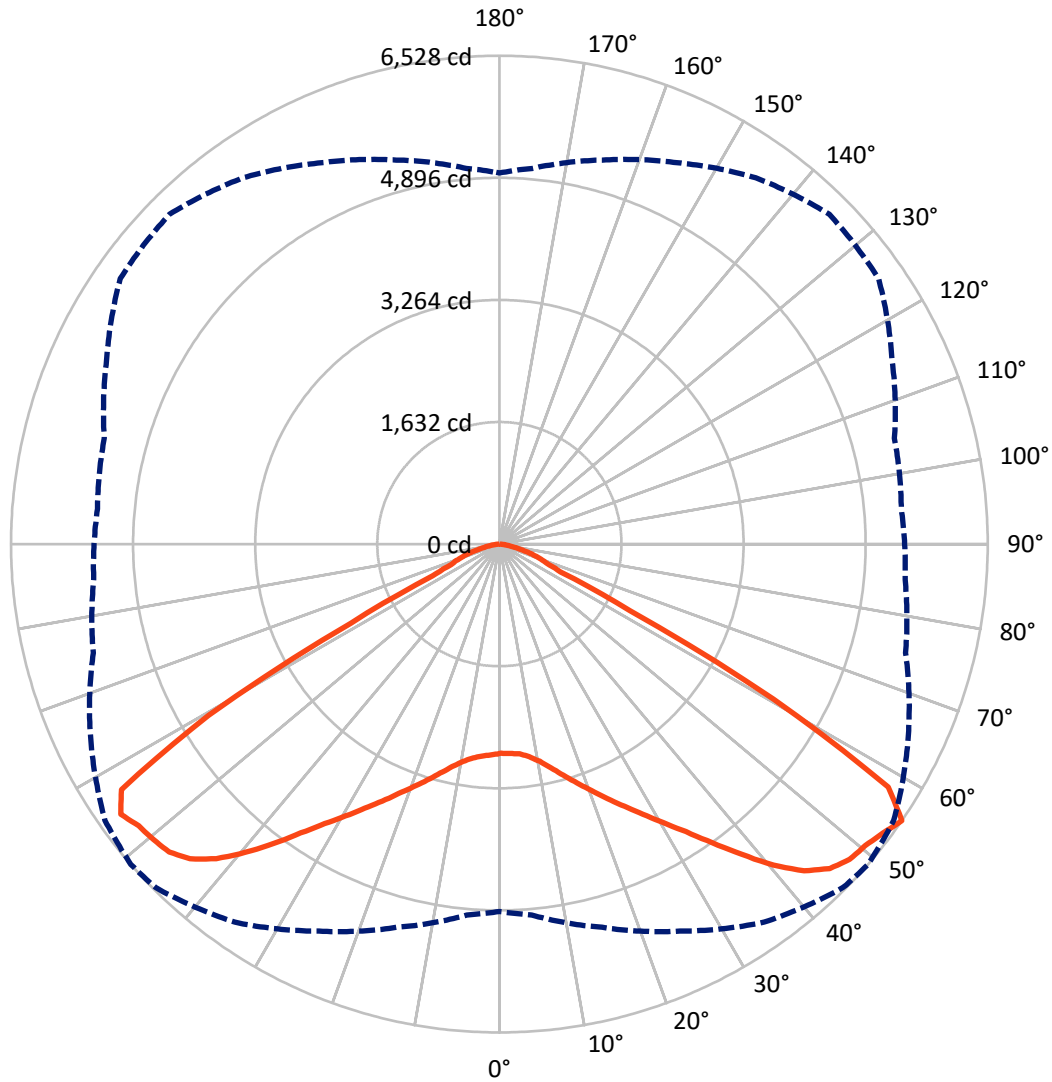
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8356.0	0.0	8356.0
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	8521.5	0.0	8521.5
	% Fixture	50.5	0.0	50.5
Total	Lumens	16877.5	0.0	16877.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	1.6
10°-20°	899.6	5.3
20°-30°	1713.5	10.2
30°-40°	2904.7	17.2
40°-50°	4371.4	25.9
50°-60°	4784.9	28.4
60°-70°	1513.0	9.0
70°-80°	363.1	2.2
80°-90°	54.5	0.3
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°	16877.5	100.0
0°-180°	16877.5	100.0

Coefficient of Utilization



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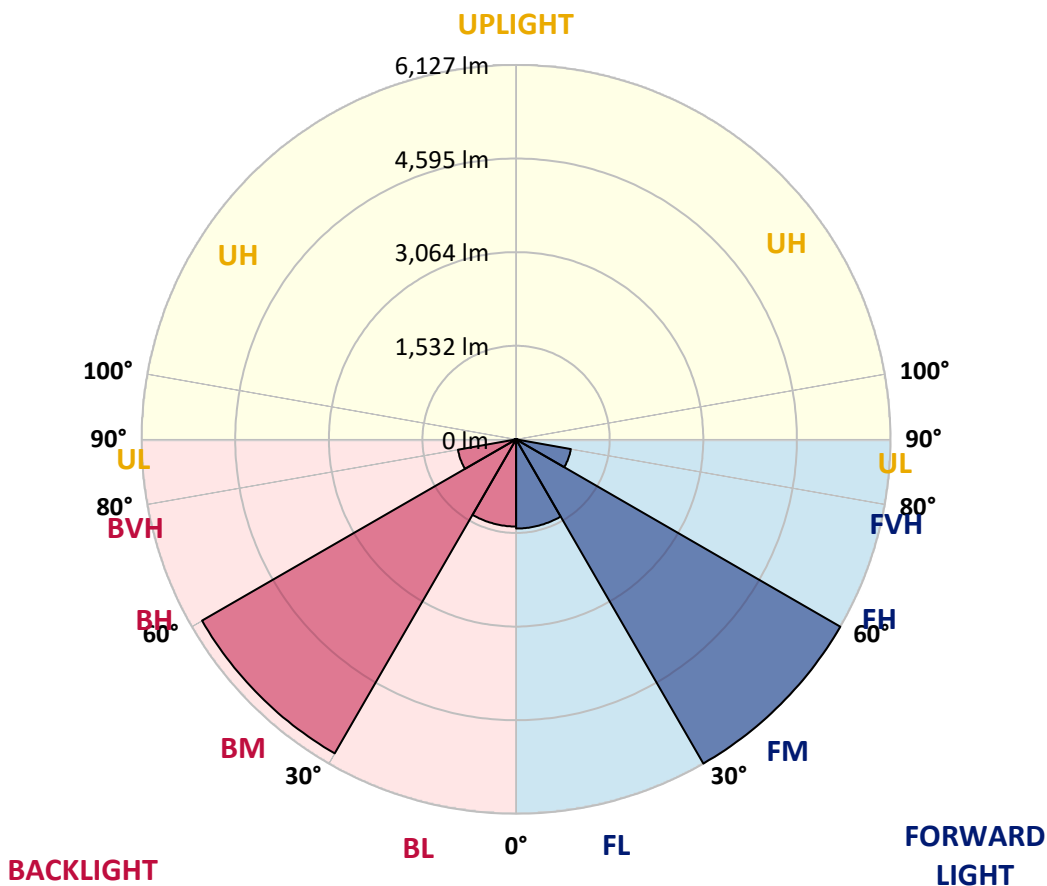
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1459.2	8.6			
FM (30°-60°)	6127.0	36.3			
FH (60°-80°)	910.1	5.4			G1/1800
FVH (80°-90°)	25.2	0.1			G1/100
BL (0°-30°)	1426.6	8.5	B3/2500		
BM (30°-60°)	5934.0	35.2	B4/8500		
BH (60°-80°)	966.0	5.7	B2/1000		G1/1800
BVH (80°-90°)	29.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9
2.5°	2754.7	2757.4	2762.9	2772.5	2782.1	2795.9	2801.4	2808.2	2806.8	2815.1	2815.1
5°	2741.0	2745.1	2753.3	2767.0	2783.5	2809.6	2816.4	2832.9	2849.4	2870.0	2876.8
7.5°	2757.4	2762.9	2772.5	2794.5	2819.2	2853.5	2867.2	2894.7	2926.3	2963.3	2978.4
10°	2789.0	2795.9	2812.3	2848.0	2887.8	2940.0	2952.3	2986.6	3037.4	3088.2	3118.4
12.5°	2824.7	2835.7	2865.9	2922.1	2981.2	3049.8	3069.0	3111.5	3166.4	3232.3	3273.5
15°	2865.9	2875.5	2922.1	3001.7	3093.7	3184.3	3206.2	3247.4	3309.2	3373.7	3431.3
17.5°	2952.3	2968.8	3023.7	3115.7	3222.7	3329.8	3354.5	3401.1	3450.6	3501.3	3556.2
20°	3070.4	3084.1	3154.1	3268.0	3394.3	3491.7	3516.4	3557.6	3581.0	3607.0	3653.7
22.5°	3188.4	3207.6	3287.2	3421.7	3570.0	3675.7	3694.9	3733.3	3716.8	3708.6	3738.8
25°	3335.3	3361.3	3439.6	3586.4	3737.4	3867.8	3882.9	3915.9	3888.4	3845.9	3844.5
27.5°	3517.8	3541.1	3622.1	3773.1	3922.7	4058.6	4087.4	4131.3	4070.9	4018.8	3981.7
30°	3734.7	3749.8	3839.0	3999.6	4153.3	4282.3	4319.4	4363.3	4318.0	4231.5	4194.5
32.5°	3987.2	4007.8	4110.8	4279.6	4416.8	4545.8	4582.9	4637.8	4588.4	4490.9	4444.3
35°	4290.6	4311.1	4419.6	4603.5	4743.5	4876.6	4902.7	4948.0	4886.2	4773.7	4736.6
37.5°	4620.0	4646.0	4783.3	4957.6	5104.5	5259.6	5260.9	5274.7	5186.8	5046.8	5005.6
40°	4990.5	5024.9	5162.1	5343.3	5520.3	5646.6	5645.2	5606.8	5458.6	5241.7	5178.6
42.5°	5357.0	5384.5	5523.1	5709.8	5886.8	6006.2	5970.5	5877.2	5663.1	5368.0	5284.3
45°	5621.9	5642.5	5788.0	5998.0	6177.8	6251.9	6187.4	6074.9	5785.2	5447.6	5324.1
47.5°	5746.8	5774.3	5921.1	6129.8	6332.9	6375.4	6298.6	6192.9	5856.6	5521.7	5355.6
50°	5679.6	5715.2	5881.3	6074.9	6304.1	6391.9	6337.0	6231.3	5932.1	5594.5	5411.9
52.5°	5505.3	5539.6	5749.6	5984.3	6243.7	6418.0	6416.6	6330.1	6018.6	5615.1	5414.7
55°	4909.6	4976.8	5303.5	5708.4	6169.6	6494.9	6527.8	6435.8	6032.3	5620.5	5443.5
57.5°	3195.3	3313.3	3623.5	4150.6	5075.6	5907.4	6129.8	6151.7	5933.5	5597.2	5449.0
60°	1334.1	1428.8	1674.5	2024.5	2789.0	3778.6	4209.6	4641.9	5163.5	5352.9	5398.2
62.5°	829.0	837.2	862.0	941.6	1196.9	1680.0	1957.2	2362.1	3137.6	3797.8	4102.5
65°	748.0	752.2	757.6	752.2	764.5	823.5	897.6	1039.0	1354.7	1682.7	2072.5
67.5°	658.8	664.3	668.4	664.3	668.4	671.2	679.4	691.8	749.4	796.1	831.8
70°	532.5	540.8	547.6	544.9	561.4	561.4	569.6	579.2	608.0	642.3	667.1
72.5°	406.3	399.4	407.6	410.4	425.5	433.7	446.1	457.1	490.0	510.6	542.2
75°	263.5	256.7	269.0	275.9	296.5	307.4	318.4	329.4	352.7	366.5	396.7
77.5°	142.7	141.4	153.7	163.3	185.3	199.0	207.3	215.5	234.7	238.8	258.0
80°	82.4	82.4	90.6	97.5	111.2	126.3	134.5	141.4	155.1	159.2	167.4
82.5°	45.3	45.3	49.4	53.5	64.5	72.7	79.6	85.1	97.5	101.6	105.7
85°	22.0	20.6	23.3	26.1	30.2	34.3	38.4	41.2	50.8	53.5	59.0
87.5°	2.7	2.7	2.7	4.1	5.5	8.2	9.6	9.6	15.1	17.8	20.6
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°	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9	2795.9
2.5°	2823.3	2805.5	2816.4	2820.6	2820.6	2816.4	2798.6	2793.1	2784.9	2772.5	2772.5
5°	2886.4	2872.7	2875.5	2868.6	2852.1	2831.5	2798.6	2782.1	2768.4	2753.3	2751.9
7.5°	2994.9	2977.0	2974.3	2948.2	2904.3	2860.4	2811.0	2780.8	2760.2	2741.0	2739.6
10°	3136.2	3119.8	3099.2	3047.0	2982.5	2918.0	2850.8	2809.6	2779.4	2751.9	2750.6
12.5°	3294.1	3274.9	3236.4	3159.6	3078.6	3015.5	2938.6	2875.5	2830.2	2793.1	2786.3
15°	3465.7	3438.2	3372.3	3281.7	3202.1	3134.9	3052.5	2961.9	2893.3	2834.3	2827.4
17.5°	3597.4	3561.7	3490.4	3405.3	3339.4	3272.1	3165.1	3051.2	2952.3	2878.2	2867.2
20°	3688.0	3659.2	3578.2	3515.1	3476.6	3417.6	3292.7	3163.7	3052.5	2959.2	2953.7
22.5°	3771.7	3737.4	3657.8	3620.8	3620.8	3581.0	3461.5	3309.2	3178.8	3070.4	3056.6
25°	3866.4	3829.4	3769.0	3764.9	3784.1	3766.2	3622.1	3458.8	3306.4	3184.3	3162.3
27.5°	3998.2	3957.0	3921.3	3946.0	3973.5	3954.3	3793.7	3604.3	3443.7	3320.2	3301.0
30°	4208.2	4157.4	4124.5	4154.7	4208.2	4151.9	3977.6	3777.2	3615.3	3479.4	3469.8
32.5°	4452.5	4394.9	4360.6	4408.6	4456.6	4368.8	4195.8	4003.7	3833.5	3690.8	3674.3
35°	4746.2	4673.5	4622.7	4687.2	4736.6	4650.2	4478.6	4296.0	4106.6	3958.4	3936.4
37.5°	5007.0	4919.2	4884.9	4975.5	5041.3	4985.1	4798.4	4626.8	4419.6	4257.6	4248.0
40°	5196.4	5110.0	5085.3	5234.9	5350.2	5336.4	5169.0	4972.7	4777.8	4591.1	4573.3
42.5°	5278.8	5218.4	5223.9	5425.6	5604.1	5691.9	5542.3	5332.3	5144.3	4950.7	4938.4
45°	5296.6	5259.6	5303.5	5556.0	5790.7	5970.5	5842.9	5667.2	5454.5	5267.8	5262.3
47.5°	5315.8	5295.3	5362.5	5630.2	5908.8	6117.4	6046.0	5864.9	5649.4	5466.8	5453.1
50°	5361.1	5352.9	5428.4	5682.3	5965.1	6157.2	6076.2	5896.4	5675.4	5495.6	5462.7
52.5°	5374.9	5361.1	5469.6	5763.3	6058.4	6155.8	5981.5	5746.8	5524.5	5324.1	5289.8
55°	5417.4	5392.7	5466.8	5793.5	6187.4	6235.4	5976.0	5624.7	5314.5	5041.3	4960.4
57.5°	5428.4	5400.9	5449.0	5744.1	6047.4	6004.9	5252.7	4539.0	3954.3	3651.0	3685.3
60°	5369.4	5377.6	5295.3	5262.3	4850.5	4282.3	3215.9	2570.8	2019.0	1785.7	1836.5
62.5°	4087.4	4121.7	3840.4	3339.4	2568.0	2035.5	1346.5	1045.9	885.3	844.1	851.0
65°	2062.9	2109.6	1817.2	1502.9	1117.2	903.1	781.0	756.3	748.0	738.4	738.4
67.5°	816.7	830.4	819.4	767.2	713.7	694.5	689.0	686.3	676.7	671.2	672.5
70°	656.1	667.1	650.6	617.6	595.7	594.3	591.6	586.1	579.2	579.2	583.3
72.5°	535.3	546.3	522.9	502.3	485.9	473.5	466.7	462.5	452.9	452.9	457.1
75°	393.9	400.8	381.6	378.8	361.0	348.6	337.6	332.2	319.8	314.3	318.4
77.5°	262.2	260.8	251.2	251.2	244.3	229.2	216.9	204.5	188.0	177.1	179.8
80°	170.2	170.2	166.1	166.1	159.2	146.9	131.8	119.4	109.8	101.6	101.6
82.5°	108.4	107.1	105.7	104.3	101.6	89.2	78.2	70.0	63.1	57.6	59.0
85°	60.4	60.4	57.6	57.6	52.2	45.3	39.8	34.3	30.2	28.8	28.8
87.5°	20.6	20.6	19.2	19.2	16.5	12.4	9.6	8.2	6.9	5.5	6.9
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)