

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: P635992

Luminaire Tested: GWS-SA3E-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635992
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-SA3E-830-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15400.3 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

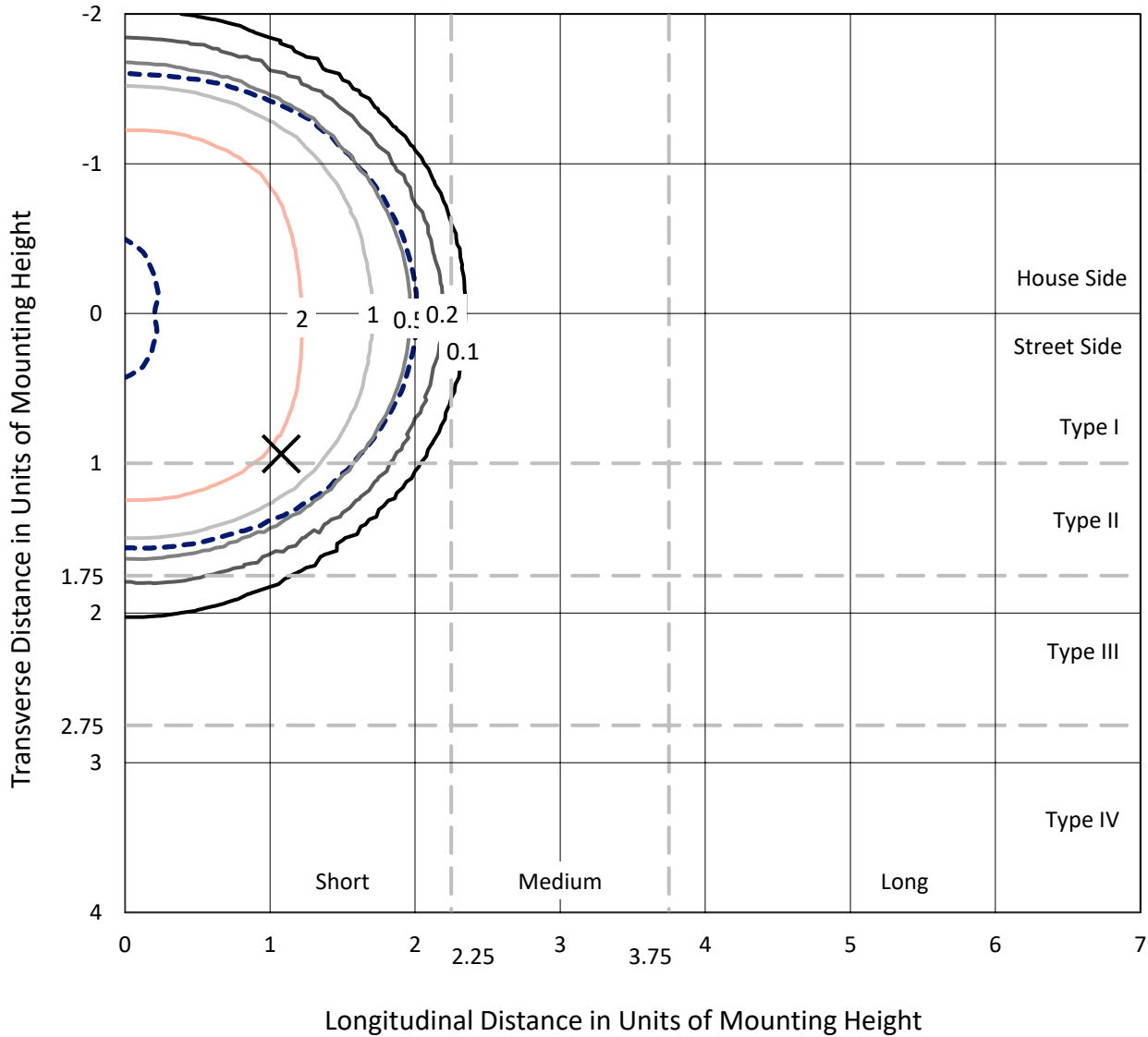
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

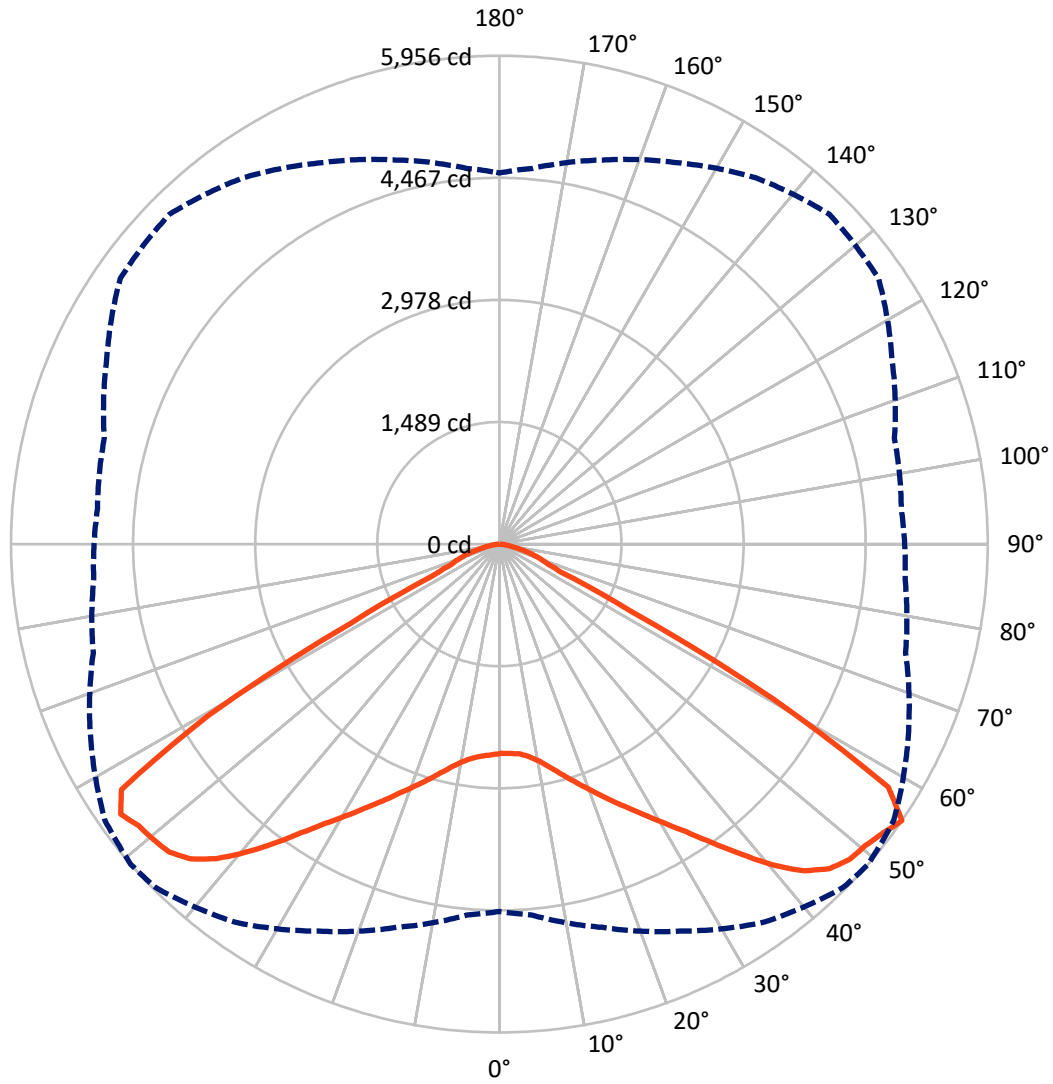
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	7624.6	0.0	7624.6
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	7775.7	0.0	7775.7
	% Fixture	50.5	0.0	50.5
Total	Lumens	15400.3	0.0	15400.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.9	1.6
10°-20°	820.9	5.3
20°-30°	1563.5	10.2
30°-40°	2650.5	17.2
40°-50°	3988.8	25.9
50°-60°	4366.1	28.4
60°-70°	1380.6	9.0
70°-80°	331.3	2.2
80°-90°	49.7	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°	15400.3	100.0
0°-180°	15400.3	100.0

Coefficient of Utilization



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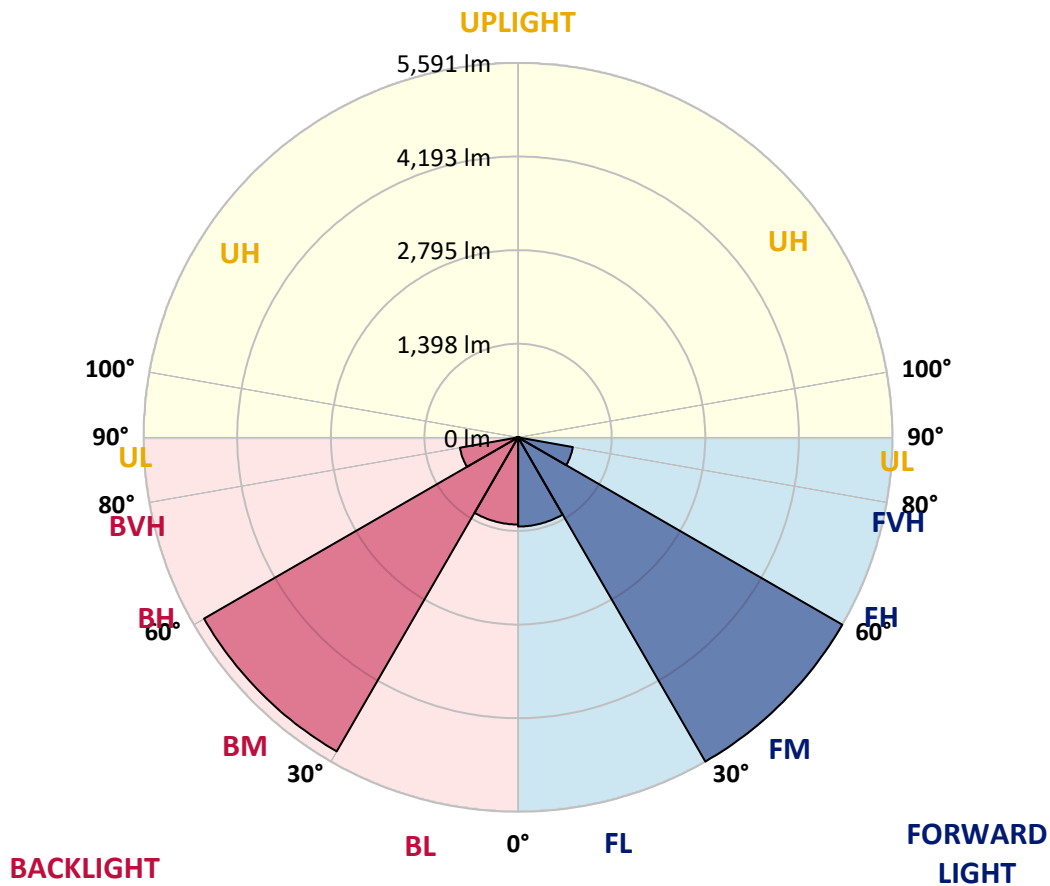
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1331.5	8.6			
FM (30°-60°)	5590.7	36.3			
FH (60°-80°)	830.4	5.4			G1/1800
FVH (80°-90°)	23.0	0.1			G1/100
BL (0°-30°)	1301.7	8.5	B3/2500		
BM (30°-60°)	5414.7	35.2	B4/8500		
BH (60°-80°)	881.5	5.7	B2/1000		G1/1800
BVH (80°-90°)	26.7	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°	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2
2.5°	2513.6	2516.1	2521.1	2529.9	2538.6	2551.2	2556.2	2562.4	2561.2	2568.7	2568.7
5°	2501.1	2504.8	2512.3	2524.9	2539.9	2563.7	2569.9	2585.0	2600.0	2618.8	2625.0
7.5°	2516.1	2521.1	2529.9	2549.9	2572.4	2603.8	2616.3	2641.3	2670.1	2703.9	2717.7
10°	2544.9	2551.2	2566.2	2598.7	2635.1	2682.7	2693.9	2725.2	2771.6	2817.9	2845.5
12.5°	2577.5	2587.5	2615.0	2666.4	2720.2	2782.8	2800.4	2839.2	2889.3	2949.4	2987.0
15°	2615.0	2623.8	2666.4	2739.0	2822.9	2905.6	2925.6	2963.2	3019.6	3078.4	3131.0
17.5°	2693.9	2709.0	2759.1	2843.0	2940.7	3038.3	3060.9	3103.5	3148.6	3194.9	3245.0
20°	2801.6	2814.2	2878.0	2982.0	3097.2	3186.1	3208.7	3246.2	3267.5	3291.3	3333.9
22.5°	2909.3	2926.9	2999.5	3122.3	3257.5	3353.9	3371.5	3406.5	3391.5	3384.0	3411.6
25°	3043.3	3067.1	3138.5	3272.5	3410.3	3529.3	3543.1	3573.1	3548.1	3509.2	3508.0
27.5°	3209.9	3231.2	3305.1	3442.9	3579.4	3703.4	3729.7	3769.7	3714.6	3667.0	3633.2
30°	3407.8	3421.6	3503.0	3649.5	3789.8	3907.5	3941.3	3981.4	3940.1	3861.2	3827.4
32.5°	3638.2	3657.0	3751.0	3905.0	4030.2	4148.0	4181.8	4231.9	4186.8	4097.9	4055.3
35°	3915.0	3933.8	4032.8	4200.6	4328.3	4449.8	4473.6	4514.9	4458.6	4355.9	4322.1
37.5°	4215.6	4239.4	4364.6	4523.7	4657.7	4799.2	4800.5	4813.0	4732.8	4605.1	4567.5
40°	4553.8	4585.1	4710.3	4875.6	5037.2	5152.4	5151.2	5116.1	4980.8	4782.9	4725.3
42.5°	4888.1	4913.2	5039.7	5210.0	5371.6	5480.5	5448.0	5362.8	5167.4	4898.2	4821.8
45°	5129.9	5148.6	5281.4	5473.0	5637.1	5704.7	5645.9	5543.2	5278.9	4970.8	4858.1
47.5°	5243.8	5268.9	5402.9	5593.2	5778.6	5817.4	5747.3	5650.9	5344.0	5038.4	4886.9
50°	5182.5	5215.0	5366.6	5543.2	5752.3	5832.5	5782.4	5685.9	5412.9	5104.8	4938.2
52.5°	5023.4	5054.7	5246.3	5460.5	5697.2	5856.3	5855.0	5776.1	5491.8	5123.6	4940.7
55°	4479.9	4541.2	4839.3	5208.8	5629.6	5926.4	5956.4	5872.5	5504.3	5128.6	4967.0
57.5°	2915.6	3023.3	3306.4	3787.3	4631.4	5390.4	5593.2	5613.3	5414.2	5107.3	4972.1
60°	1217.3	1303.8	1527.9	1847.3	2544.9	3447.9	3841.1	4235.6	4711.6	4884.4	4925.7
62.5°	756.5	764.0	786.5	859.2	1092.1	1532.9	1785.9	2155.4	2863.0	3465.4	3743.4
65°	682.6	686.3	691.3	686.3	697.6	751.4	819.1	948.1	1236.1	1535.5	1891.1
67.5°	601.2	606.2	609.9	606.2	609.9	612.4	619.9	631.2	683.8	726.4	759.0
70°	485.9	493.4	499.7	497.2	512.2	512.2	519.7	528.5	554.8	586.1	608.7
72.5°	370.7	364.5	372.0	374.5	388.2	395.8	407.0	417.1	447.1	465.9	494.7
75°	240.5	234.2	245.5	251.7	270.5	280.5	290.6	300.6	321.9	334.4	361.9
77.5°	130.3	129.0	140.3	149.0	169.1	181.6	189.1	196.6	214.2	217.9	235.5
80°	75.1	75.1	82.7	88.9	101.4	115.2	122.7	129.0	141.5	145.3	152.8
82.5°	41.3	41.3	45.1	48.8	58.9	66.4	72.6	77.6	88.9	92.7	96.4
85°	20.0	18.8	21.3	23.8	27.6	31.3	35.1	37.6	46.3	48.8	53.9
87.5°	2.5	2.5	2.5	3.8	5.0	7.5	8.8	8.8	13.8	16.3	18.8
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°	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2	2551.2
2.5°	2576.2	2559.9	2569.9	2573.7	2573.7	2569.9	2553.7	2548.6	2541.1	2529.9	2529.9
5°	2633.8	2621.3	2623.8	2617.5	2602.5	2583.7	2553.7	2538.6	2526.1	2512.3	2511.1
7.5°	2732.8	2716.5	2714.0	2690.2	2650.1	2610.0	2564.9	2537.4	2518.6	2501.1	2499.8
10°	2861.8	2846.7	2827.9	2780.3	2721.5	2662.6	2601.2	2563.7	2536.1	2511.1	2509.8
12.5°	3005.8	2988.2	2953.2	2883.0	2809.1	2751.5	2681.4	2623.8	2582.5	2548.6	2542.4
15°	3162.3	3137.3	3077.2	2994.5	2921.9	2860.5	2785.4	2702.7	2640.1	2586.2	2580.0
17.5°	3282.6	3250.0	3184.9	3107.2	3047.1	2985.7	2888.1	2784.1	2693.9	2626.3	2616.3
20°	3365.2	3338.9	3265.0	3207.4	3172.3	3118.5	3004.5	2886.8	2785.4	2700.2	2695.2
22.5°	3441.6	3410.3	3337.7	3303.8	3303.8	3267.5	3158.6	3019.6	2900.6	2801.6	2789.1
25°	3528.0	3494.2	3439.1	3435.4	3452.9	3436.6	3305.1	3156.1	3017.0	2905.6	2885.5
27.5°	3648.3	3610.7	3578.1	3600.7	3625.7	3608.2	3461.7	3288.8	3142.3	3029.6	3012.0
30°	3839.9	3793.5	3763.5	3791.0	3839.9	3788.5	3629.5	3446.6	3298.8	3174.9	3166.1
32.5°	4062.8	4010.2	3978.9	4022.7	4066.6	3986.4	3828.6	3653.3	3498.0	3367.7	3352.7
35°	4330.8	4264.4	4218.1	4277.0	4322.1	4243.2	4086.6	3920.0	3747.2	3611.9	3591.9
37.5°	4568.8	4488.6	4457.3	4540.0	4600.1	4548.7	4378.4	4221.9	4032.8	3885.0	3876.2
40°	4741.6	4662.7	4640.2	4776.7	4881.9	4869.4	4716.6	4537.5	4359.6	4189.3	4173.0
42.5°	4816.8	4761.7	4766.7	4950.8	5113.6	5193.7	5057.2	4865.6	4694.0	4517.4	4506.2
45°	4833.0	4799.2	4839.3	5069.7	5283.9	5448.0	5331.5	5171.2	4977.1	4806.7	4801.7
47.5°	4850.6	4831.8	4893.2	5137.4	5391.6	5582.0	5516.9	5351.5	5154.9	4988.3	4975.8
50°	4891.9	4884.4	4953.3	5185.0	5443.0	5618.3	5544.4	5380.3	5178.7	5014.6	4984.6
52.5°	4904.4	4891.9	4990.8	5258.9	5528.1	5617.0	5458.0	5243.8	5040.9	4858.1	4826.8
55°	4943.3	4920.7	4988.3	5286.4	5645.9	5689.7	5453.0	5132.4	4849.3	4600.1	4526.2
57.5°	4953.3	4928.2	4972.1	5241.3	5518.1	5479.3	4793.0	4141.7	3608.2	3331.4	3362.7
60°	4899.4	4906.9	4831.8	4801.7	4426.0	3907.5	2934.4	2345.8	1842.3	1629.4	1675.7
62.5°	3729.7	3761.0	3504.2	3047.1	2343.3	1857.3	1228.6	954.3	807.8	770.2	776.5
65°	1882.4	1924.9	1658.2	1371.4	1019.5	824.1	712.6	690.1	682.6	673.8	673.8
67.5°	745.2	757.7	747.7	700.1	651.3	633.7	628.7	626.2	617.4	612.4	613.7
70°	598.7	608.7	593.6	563.6	543.5	542.3	539.8	534.8	528.5	528.5	532.3
72.5°	488.4	498.5	477.2	458.4	443.4	432.1	425.8	422.1	413.3	413.3	417.1
75°	359.4	365.7	348.2	345.7	329.4	318.1	308.1	303.1	291.8	286.8	290.6
77.5°	239.2	238.0	229.2	229.2	222.9	209.2	197.9	186.6	171.6	161.6	164.1
80°	155.3	155.3	151.5	151.5	145.3	134.0	120.2	109.0	100.2	92.7	92.7
82.5°	98.9	97.7	96.4	95.2	92.7	81.4	71.4	63.9	57.6	52.6	53.9
85°	55.1	55.1	52.6	52.6	47.6	41.3	36.3	31.3	27.6	26.3	26.3
87.5°	18.8	18.8	17.5	17.5	15.0	11.3	8.8	7.5	6.3	5.0	6.3
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)