

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: P637532

Luminaire Tested: GWS-SA4D-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637532
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-SA4D-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15901.6 lumens
Efficiency: N/A
Efficacy: 98.1 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): 162.1
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

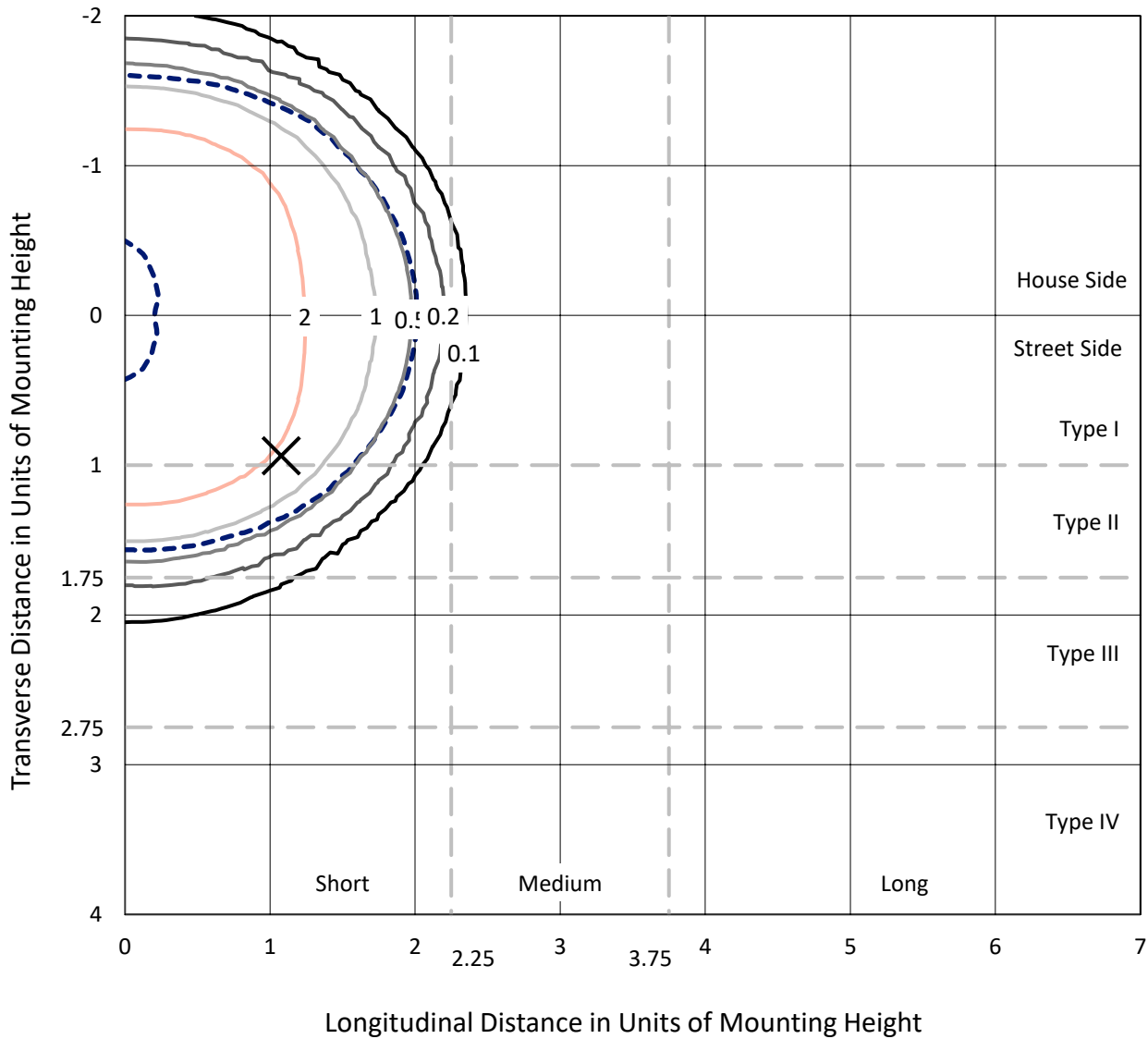


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Iso-Footcandle Lines of Horizontal Illumination

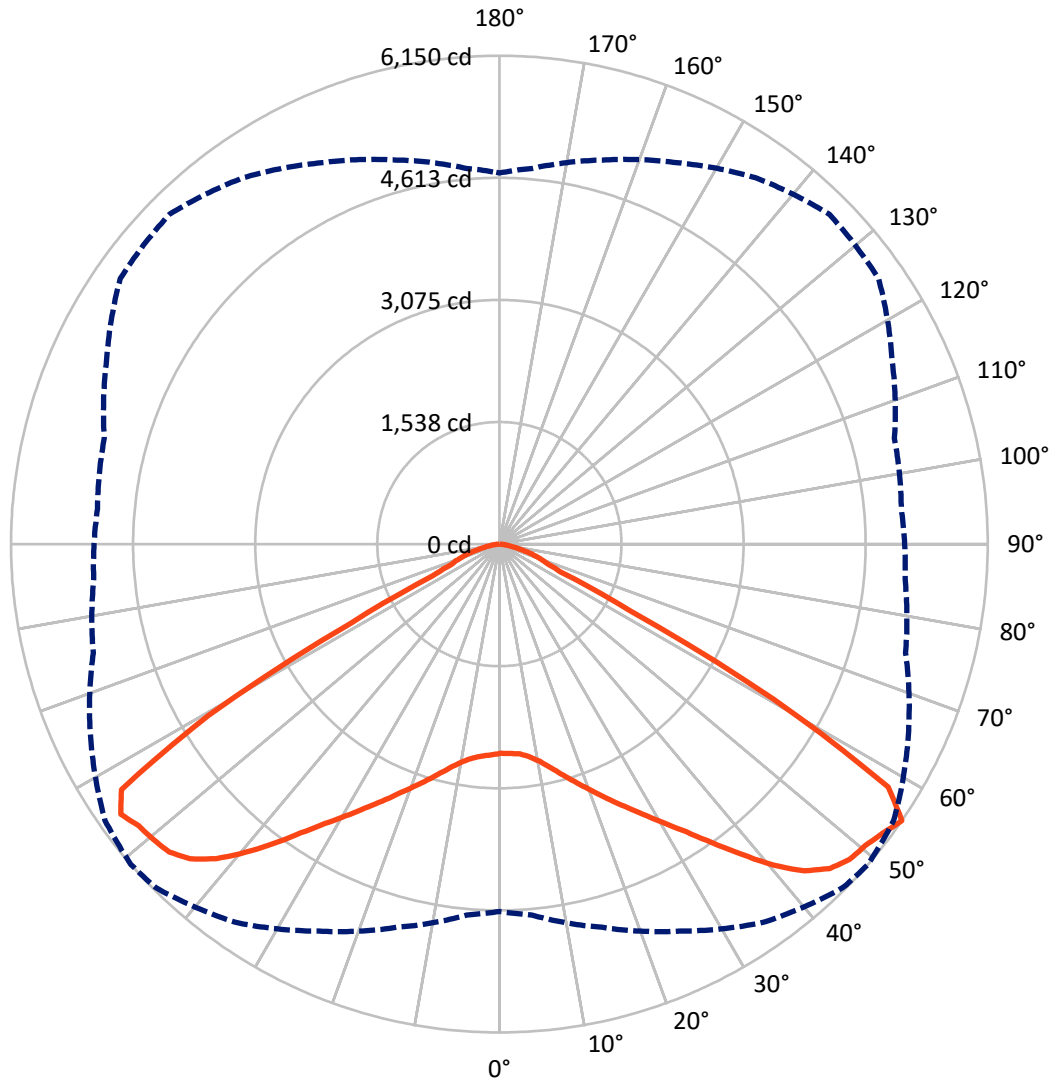
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	7872.8	0.0	7872.8
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	8028.8	0.0	8028.8
	% Fixture	50.5	0.0	50.5
Total	Lumens	15901.6	0.0	15901.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	1.6
10°-20°	847.6	5.3
20°-30°	1614.4	10.2
30°-40°	2736.8	17.2
40°-50°	4118.6	25.9
50°-60°	4508.2	28.4
60°-70°	1425.5	9.0
70°-80°	342.1	2.2
80°-90°	51.3	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°	15901.6	100.0
0°-180°	15901.6	100.0

Coefficient of Utilization



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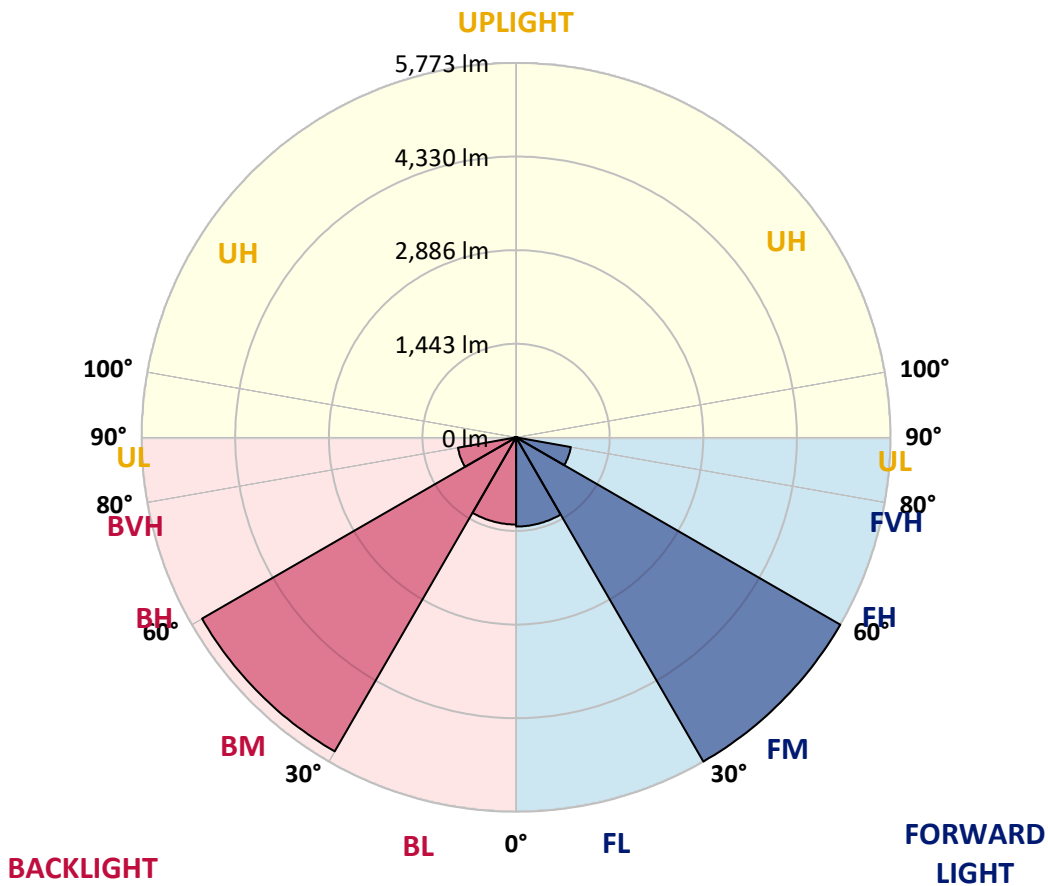
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1374.8	8.6			
FM (30°-60°)	5772.7	36.3			
FH (60°-80°)	857.5	5.4			G1/1800
FVH (80°-90°)	23.8	0.1			G1/100
BL (0°-30°)	1344.1	8.5	B3/2500		
BM (30°-60°)	5590.9	35.2	B4/8500		
BH (60°-80°)	910.2	5.7	B2/1000		G1/1800
BVH (80°-90°)	27.6	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°	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2
2.5°	2595.4	2598.0	2603.2	2612.2	2621.3	2634.2	2639.4	2645.8	2644.5	2652.3	2652.3
5°	2582.5	2586.3	2594.1	2607.0	2622.6	2647.1	2653.6	2669.1	2684.6	2704.0	2710.5
7.5°	2598.0	2603.2	2612.2	2632.9	2656.2	2688.5	2701.4	2727.3	2757.0	2792.0	2806.2
10°	2627.7	2634.2	2649.7	2683.3	2720.8	2770.0	2781.6	2813.9	2861.8	2909.6	2938.1
12.5°	2661.4	2671.7	2700.1	2753.2	2808.8	2873.4	2891.5	2931.6	2983.4	3045.4	3084.2
15°	2700.1	2709.2	2753.2	2828.2	2914.8	3000.2	3020.9	3059.7	3117.8	3178.6	3232.9
17.5°	2781.6	2797.1	2848.9	2935.5	3036.4	3137.2	3160.5	3204.5	3251.0	3298.9	3350.6
20°	2892.8	2905.8	2971.7	3079.0	3198.0	3289.8	3313.1	3351.9	3373.9	3398.5	3442.4
22.5°	3004.0	3022.1	3097.2	3223.9	3363.5	3463.1	3481.2	3517.4	3501.9	3494.2	3522.6
25°	3142.4	3167.0	3240.7	3379.1	3521.3	3644.2	3658.4	3689.4	3663.6	3623.5	3622.2
27.5°	3314.4	3336.4	3412.7	3554.9	3695.9	3823.9	3851.1	3892.5	3835.6	3786.4	3751.5
30°	3518.7	3533.0	3617.0	3768.3	3913.1	4034.7	4069.6	4111.0	4068.3	3986.9	3951.9
32.5°	3756.7	3776.1	3873.1	4032.1	4161.4	4283.0	4317.9	4369.6	4323.1	4231.3	4187.3
35°	4042.5	4061.9	4164.0	4337.3	4469.2	4594.6	4619.2	4661.9	4603.7	4497.7	4462.7
37.5°	4352.8	4377.4	4506.7	4670.9	4809.3	4955.4	4956.7	4969.7	4886.9	4755.0	4716.2
40°	4702.0	4734.3	4863.6	5034.3	5201.1	5320.1	5318.8	5282.6	5143.0	4938.6	4879.1
42.5°	5047.3	5073.1	5203.7	5379.6	5546.4	5658.9	5625.3	5537.4	5335.6	5057.6	4978.7
45°	5296.8	5316.2	5453.3	5651.2	5820.6	5890.4	5829.6	5723.6	5450.7	5132.6	5016.2
47.5°	5414.5	5440.4	5578.8	5775.3	5966.7	6006.8	5934.4	5834.8	5518.0	5202.4	5046.0
50°	5351.2	5384.8	5541.3	5723.6	5939.6	6022.3	5970.6	5871.0	5589.1	5271.0	5099.0
52.5°	5186.9	5219.3	5417.1	5638.2	5882.7	6046.9	6045.6	5964.1	5670.6	5290.4	5101.6
55°	4625.7	4689.1	4996.8	5378.3	5812.8	6119.3	6150.3	6063.7	5683.5	5295.5	5128.7
57.5°	3010.5	3121.7	3414.0	3910.6	4782.2	5565.8	5775.3	5796.0	5590.4	5273.6	5133.9
60°	1257.0	1346.2	1577.7	1907.4	2627.7	3560.1	3966.2	4373.5	4864.9	5043.4	5086.1
62.5°	781.1	788.8	812.1	887.1	1127.6	1582.8	1844.1	2225.6	2956.2	3578.2	3865.3
65°	704.8	708.7	713.8	708.7	720.3	775.9	845.7	978.9	1276.4	1585.4	1952.7
67.5°	620.7	625.9	629.8	625.9	629.8	632.4	640.1	651.8	706.1	750.0	783.7
70°	501.8	509.5	516.0	513.4	528.9	528.9	536.7	545.7	572.9	605.2	628.5
72.5°	382.8	376.3	384.1	386.7	400.9	408.6	420.3	430.6	461.7	481.1	510.8
75°	248.3	241.8	253.5	259.9	279.3	289.7	300.0	310.4	332.3	345.3	373.7
77.5°	134.5	133.2	144.8	153.9	174.6	187.5	195.3	203.0	221.1	225.0	243.1
80°	77.6	77.6	85.3	91.8	104.7	119.0	126.7	133.2	146.1	150.0	157.8
82.5°	42.7	42.7	46.6	50.4	60.8	68.5	75.0	80.2	91.8	95.7	99.6
85°	20.7	19.4	22.0	24.6	28.4	32.3	36.2	38.8	47.8	50.4	55.6
87.5°	2.6	2.6	2.6	3.9	5.2	7.8	9.1	9.1	14.2	16.8	19.4
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°	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2	2634.2
2.5°	2660.1	2643.2	2653.6	2657.5	2657.5	2653.6	2636.8	2631.6	2623.9	2612.2	2612.2
5°	2719.5	2706.6	2709.2	2702.7	2687.2	2667.8	2636.8	2621.3	2608.3	2594.1	2592.8
7.5°	2821.7	2804.9	2802.3	2777.7	2736.4	2695.0	2648.4	2620.0	2600.6	2582.5	2581.2
10°	2954.9	2939.4	2920.0	2870.8	2810.1	2749.3	2685.9	2647.1	2618.7	2592.8	2591.5
12.5°	3103.6	3085.5	3049.3	2976.9	2900.6	2841.1	2768.7	2709.2	2666.5	2631.6	2625.1
15°	3265.3	3239.4	3177.3	3092.0	3017.0	2953.6	2876.0	2790.7	2726.0	2670.4	2663.9
17.5°	3389.4	3355.8	3288.5	3208.4	3146.3	3082.9	2982.1	2874.7	2781.6	2711.8	2701.4
20°	3474.8	3447.6	3371.3	3311.8	3275.6	3220.0	3102.3	2980.8	2876.0	2788.1	2782.9
22.5°	3553.6	3521.3	3446.3	3411.4	3411.4	3373.9	3261.4	3117.8	2995.0	2892.8	2879.9
25°	3642.9	3608.0	3551.1	3547.2	3565.3	3548.5	3412.7	3258.8	3115.3	3000.2	2979.5
27.5°	3767.0	3728.2	3694.6	3717.9	3743.7	3725.6	3574.3	3395.9	3244.6	3128.2	3110.1
30°	3964.9	3917.0	3886.0	3914.4	3964.9	3911.9	3747.6	3558.8	3406.2	3278.2	3269.1
32.5°	4195.1	4140.7	4108.4	4153.7	4198.9	4116.2	3953.2	3772.2	3611.8	3477.3	3461.8
35°	4471.8	4403.3	4355.4	4416.2	4462.7	4381.3	4219.6	4047.6	3869.2	3729.5	3708.8
37.5°	4717.5	4634.7	4602.4	4687.8	4749.8	4696.8	4520.9	4359.3	4164.0	4011.4	4002.4
40°	4896.0	4814.5	4791.2	4932.2	5040.8	5027.9	4870.1	4685.2	4501.5	4325.7	4308.9
42.5°	4973.5	4916.6	4921.8	5111.9	5280.0	5362.8	5221.8	5024.0	4846.8	4664.5	4652.8
45°	4990.4	4955.4	4996.8	5234.8	5455.9	5625.3	5505.0	5339.5	5139.1	4963.2	4958.0
47.5°	5008.5	4989.1	5052.4	5304.6	5567.1	5763.7	5696.4	5525.7	5322.7	5150.7	5137.8
50°	5051.1	5043.4	5114.5	5353.7	5620.1	5801.2	5724.9	5555.5	5347.3	5177.9	5146.8
52.5°	5064.1	5051.1	5153.3	5430.0	5708.1	5799.9	5635.7	5414.5	5205.0	5016.2	4983.9
55°	5104.2	5080.9	5150.7	5458.5	5829.6	5874.9	5630.5	5299.4	5007.2	4749.8	4673.5
57.5°	5114.5	5088.6	5133.9	5411.9	5697.7	5657.6	4949.0	4276.5	3725.6	3439.8	3472.2
60°	5058.9	5066.7	4989.1	4958.0	4570.1	4034.7	3029.9	2422.1	1902.3	1682.4	1730.3
62.5°	3851.1	3883.4	3618.3	3146.3	2419.5	1917.8	1268.6	985.4	834.1	795.3	801.8
65°	1943.6	1987.6	1712.2	1416.0	1052.6	850.9	735.8	712.5	704.8	695.7	695.7
67.5°	769.4	782.4	772.0	722.9	672.5	654.3	649.2	646.6	637.5	632.4	633.7
70°	618.1	628.5	613.0	581.9	561.2	559.9	557.4	552.2	545.7	545.7	549.6
72.5°	504.3	514.7	492.7	473.3	457.8	446.1	439.7	435.8	426.7	426.7	430.6
75°	371.1	377.6	359.5	356.9	340.1	328.5	318.1	312.9	301.3	296.1	300.0
77.5°	247.0	245.7	236.7	236.7	230.2	216.0	204.3	192.7	177.2	166.8	169.4
80°	160.4	160.4	156.5	156.5	150.0	138.4	124.1	112.5	103.5	95.7	95.7
82.5°	102.2	100.9	99.6	98.3	95.7	84.1	73.7	66.0	59.5	54.3	55.6
85°	56.9	56.9	54.3	54.3	49.1	42.7	37.5	32.3	28.4	27.2	27.2
87.5°	19.4	19.4	18.1	18.1	15.5	11.6	9.1	7.8	6.5	5.2	6.5
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)