

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: P639182

Luminaire Tested: GWS-SA5B-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639182
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-SA5B-735-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15437.9 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

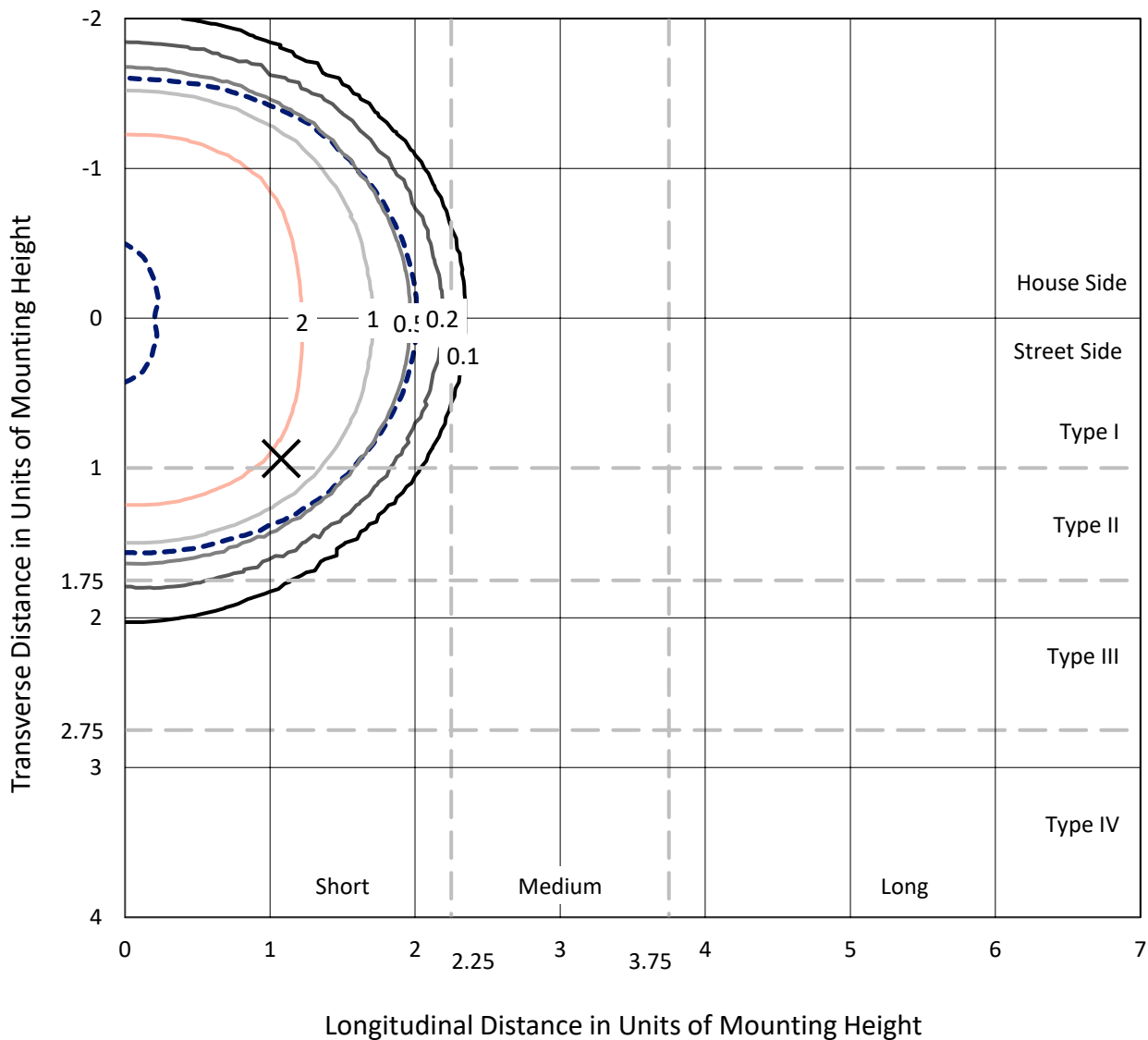
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

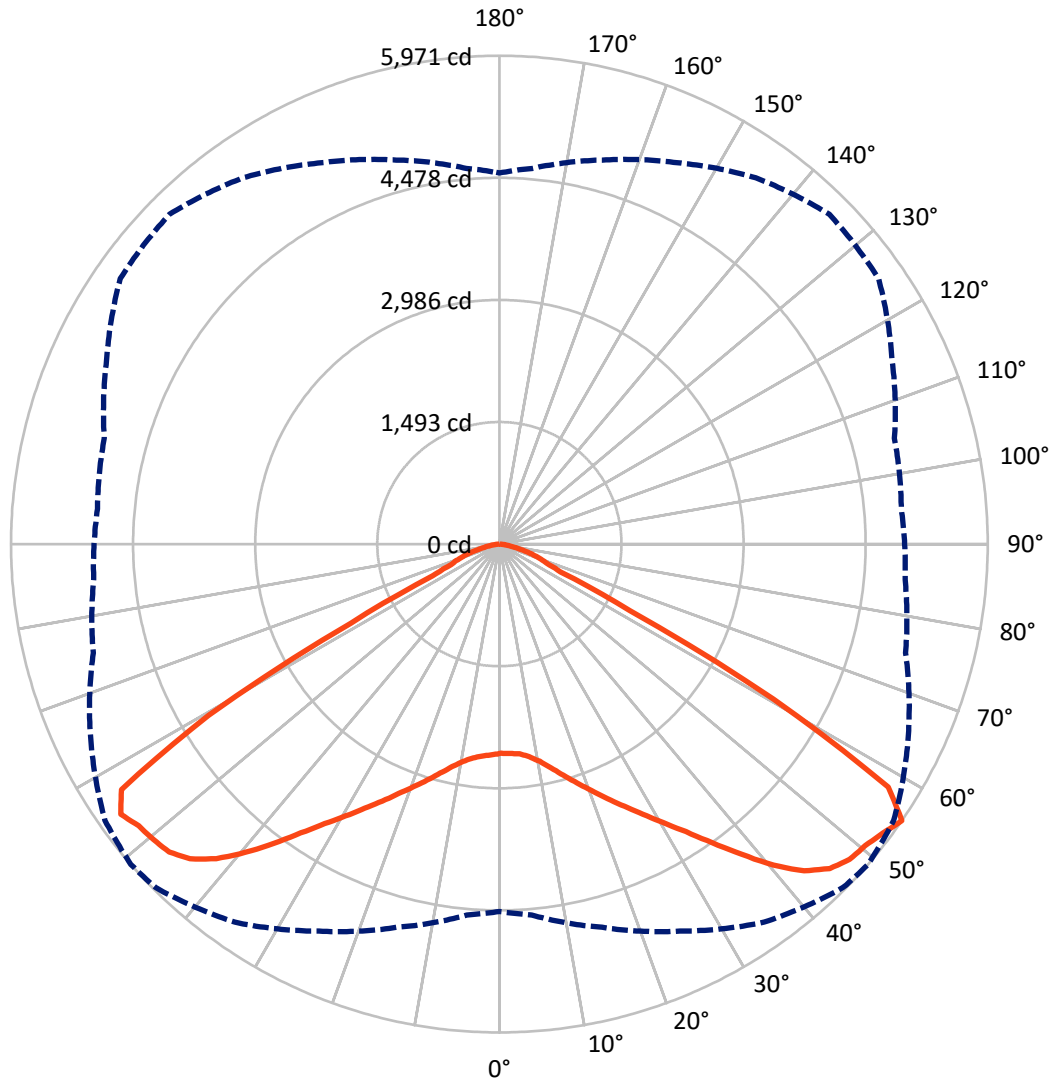
✕ Max cd
 - - - 1/2 Max cd



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	7643.2	0.0	7643.2
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	7794.7	0.0	7794.7
	% Fixture	50.5	0.0	50.5
Total	Lumens	15437.9	0.0	15437.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	1.6
10°-20°	822.9	5.3
20°-30°	1567.3	10.2
30°-40°	2657.0	17.2
40°-50°	3998.5	25.9
50°-60°	4376.8	28.4
60°-70°	1384.0	9.0
70°-80°	332.2	2.2
80°-90°	49.8	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°	15437.9	100.0
0°-180°	15437.9	100.0

Coefficient of Utilization



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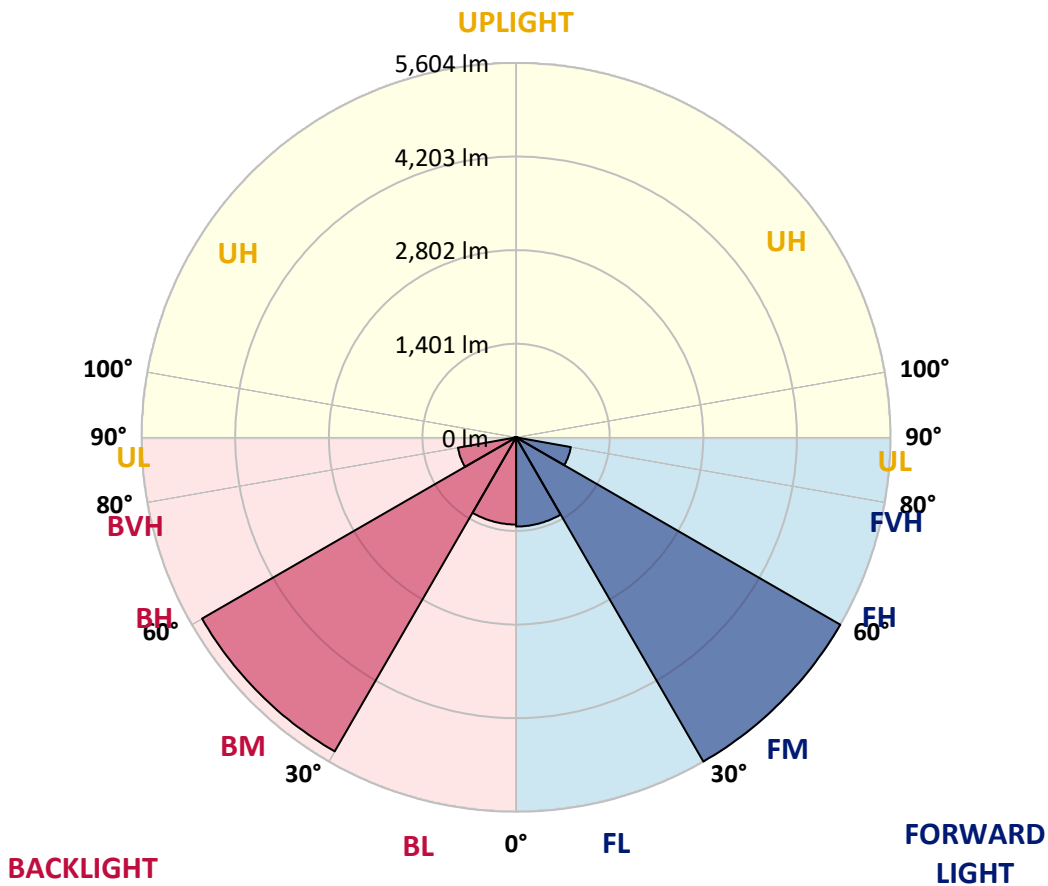
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1334.7	8.6			
FM (30°-60°)	5604.4	36.3			
FH (60°-80°)	832.5	5.4			G1/1800
FVH (80°-90°)	23.1	0.1			G1/100
BL (0°-30°)	1304.9	8.5	B3/2500		
BM (30°-60°)	5427.9	35.2	B4/8500		
BH (60°-80°)	883.6	5.7	B2/1000		G1/1800
BVH (80°-90°)	26.8	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°	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4
2.5°	2519.7	2522.2	2527.3	2536.0	2544.8	2557.4	2562.4	2568.7	2567.4	2575.0	2575.0
5°	2507.2	2510.9	2518.5	2531.0	2546.1	2569.9	2576.2	2591.3	2606.3	2625.2	2631.5
7.5°	2522.2	2527.3	2536.0	2556.1	2578.7	2610.1	2622.7	2647.8	2676.7	2710.5	2724.4
10°	2551.1	2557.4	2572.4	2605.1	2641.5	2689.2	2700.5	2731.9	2778.3	2824.8	2852.4
12.5°	2583.7	2593.8	2621.4	2672.9	2726.9	2789.6	2807.2	2846.1	2896.4	2956.6	2994.3
15°	2621.4	2630.2	2672.9	2745.7	2829.8	2912.7	2932.8	2970.4	3026.9	3085.9	3138.7
17.5°	2700.5	2715.6	2765.8	2849.9	2947.8	3045.8	3068.4	3111.0	3156.2	3202.7	3252.9
20°	2808.5	2821.0	2885.1	2989.3	3104.8	3193.9	3216.5	3254.2	3275.5	3299.4	3342.0
22.5°	2916.4	2934.0	3006.8	3129.9	3265.5	3362.1	3379.7	3414.9	3399.8	3392.3	3419.9
25°	3050.8	3074.6	3146.2	3280.5	3418.6	3537.9	3551.7	3581.8	3556.7	3517.8	3516.6
27.5°	3217.8	3239.1	3313.2	3451.3	3588.1	3712.4	3738.8	3778.9	3723.7	3676.0	3642.1
30°	3416.1	3429.9	3511.5	3658.4	3799.0	3917.1	3950.9	3991.1	3949.7	3870.6	3836.7
32.5°	3647.1	3666.0	3760.1	3914.5	4040.1	4158.1	4192.0	4242.2	4197.0	4107.9	4065.2
35°	3924.6	3943.4	4042.6	4210.8	4338.9	4460.7	4484.5	4526.0	4469.5	4366.5	4332.6
37.5°	4225.9	4249.7	4375.3	4534.7	4669.1	4810.9	4812.2	4824.8	4744.4	4616.3	4578.7
40°	4564.9	4596.3	4721.8	4887.5	5049.5	5165.0	5163.7	5128.6	4993.0	4794.6	4736.9
42.5°	4900.1	4925.2	5052.0	5222.7	5384.7	5493.9	5461.3	5375.9	5180.0	4910.1	4833.5
45°	5142.4	5161.2	5294.3	5486.4	5650.8	5718.6	5659.6	5556.7	5291.8	4982.9	4869.9
47.5°	5256.6	5281.7	5416.1	5606.9	5792.7	5831.6	5761.3	5664.7	5357.1	5050.7	4898.8
50°	5195.1	5227.8	5379.7	5556.7	5766.3	5846.7	5796.5	5699.8	5426.1	5117.3	4950.3
52.5°	5035.7	5067.1	5259.1	5473.8	5711.1	5870.6	5869.3	5790.2	5505.2	5136.1	4952.8
55°	4490.8	4552.3	4851.1	5221.5	5643.3	5940.9	5971.0	5886.9	5517.8	5141.1	4979.2
57.5°	2922.7	3030.7	3314.4	3796.5	4642.7	5403.5	5606.9	5627.0	5427.4	5119.8	4984.2
60°	1220.3	1306.9	1531.7	1851.8	2551.1	3456.3	3850.5	4246.0	4723.1	4896.3	4937.7
62.5°	758.3	765.8	788.4	861.2	1094.8	1536.7	1790.3	2160.7	2870.0	3473.9	3752.6
65°	684.2	688.0	693.0	688.0	699.3	753.3	821.1	950.4	1239.1	1539.2	1895.8
67.5°	602.6	607.6	611.4	607.6	611.4	613.9	621.5	632.8	685.5	728.2	760.8
70°	487.1	494.7	500.9	498.4	513.5	513.5	521.0	529.8	556.2	587.6	610.2
72.5°	371.6	365.3	372.9	375.4	389.2	396.7	408.0	418.1	448.2	467.0	495.9
75°	241.0	234.8	246.1	252.3	271.2	281.2	291.3	301.3	322.7	335.2	362.8
77.5°	130.6	129.3	140.6	149.4	169.5	182.0	189.6	197.1	214.7	218.5	236.0
80°	75.3	75.3	82.9	89.1	101.7	115.5	123.0	129.3	141.9	145.6	153.2
82.5°	41.4	41.4	45.2	49.0	59.0	66.5	72.8	77.8	89.1	92.9	96.7
85°	20.1	18.8	21.3	23.9	27.6	31.4	35.2	37.7	46.5	49.0	54.0
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°	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4
2.5°	2582.5	2566.2	2576.2	2580.0	2580.0	2576.2	2559.9	2554.9	2547.3	2536.0	2536.0
5°	2640.2	2627.7	2630.2	2623.9	2608.9	2590.0	2559.9	2544.8	2532.3	2518.5	2517.2
7.5°	2739.4	2723.1	2720.6	2696.7	2656.6	2616.4	2571.2	2543.6	2524.7	2507.2	2505.9
10°	2868.7	2853.7	2834.8	2787.1	2728.1	2669.1	2607.6	2569.9	2542.3	2517.2	2516.0
12.5°	3013.1	2995.5	2960.4	2890.1	2816.0	2758.3	2688.0	2630.2	2588.8	2554.9	2548.6
15°	3170.0	3144.9	3084.7	3001.8	2929.0	2867.5	2792.2	2709.3	2646.5	2592.5	2586.3
17.5°	3290.6	3257.9	3192.6	3114.8	3054.5	2993.0	2895.1	2790.9	2700.5	2632.7	2622.7
20°	3373.4	3347.1	3273.0	3215.2	3180.1	3126.1	3011.9	2893.8	2792.2	2706.8	2701.8
22.5°	3450.0	3418.6	3345.8	3311.9	3311.9	3275.5	3166.3	3026.9	2907.7	2808.5	2795.9
25°	3536.6	3502.7	3447.5	3443.7	3461.3	3445.0	3313.2	3163.8	3024.4	2912.7	2892.6
27.5°	3657.2	3619.5	3586.9	3609.5	3634.6	3617.0	3470.1	3296.9	3150.0	3037.0	3019.4
30°	3849.3	3802.8	3772.7	3800.3	3849.3	3797.8	3638.3	3455.0	3306.9	3182.6	3173.8
32.5°	4072.7	4020.0	3988.6	4032.6	4076.5	3996.1	3838.0	3662.2	3506.5	3375.9	3360.9
35°	4341.4	4274.9	4228.4	4287.4	4332.6	4253.5	4096.6	3929.6	3756.4	3620.8	3600.7
37.5°	4579.9	4499.6	4468.2	4551.1	4611.3	4559.8	4389.1	4232.2	4042.6	3894.5	3885.7
40°	4753.2	4674.1	4651.5	4788.3	4893.8	4881.2	4728.1	4548.5	4370.3	4199.5	4183.2
42.5°	4828.5	4773.3	4778.3	4962.9	5126.1	5206.4	5069.6	4877.5	4705.5	4528.5	4517.2
45°	4844.8	4810.9	4851.1	5082.1	5296.8	5461.3	5344.5	5183.8	4989.2	4818.5	4813.5
47.5°	4862.4	4843.6	4905.1	5149.9	5404.8	5595.6	5530.3	5364.6	5167.5	5000.5	4988.0
50°	4903.8	4896.3	4965.4	5197.6	5456.2	5632.0	5557.9	5393.5	5191.3	5026.9	4996.7
52.5°	4916.4	4903.8	5003.0	5271.7	5541.6	5630.8	5471.3	5256.6	5053.2	4869.9	4838.6
55°	4955.3	4932.7	5000.5	5299.3	5659.6	5703.6	5466.3	5144.9	4861.2	4611.3	4537.2
57.5°	4965.4	4940.3	4984.2	5254.1	5531.6	5492.7	4804.7	4151.8	3617.0	3339.5	3370.9
60°	4911.4	4918.9	4843.6	4813.5	4436.8	3917.1	2941.6	2351.5	1846.8	1633.4	1679.8
62.5°	3738.8	3770.2	3512.8	3054.5	2349.0	1861.9	1231.6	956.7	809.8	772.1	778.4
65°	1887.0	1929.6	1662.2	1374.7	1021.9	826.1	714.4	691.8	684.2	675.4	675.4
67.5°	747.0	759.6	749.5	701.8	652.8	635.3	630.2	627.7	618.9	613.9	615.2
70°	600.1	610.2	595.1	565.0	544.9	543.6	541.1	536.1	529.8	529.8	533.6
72.5°	489.6	499.7	478.3	459.5	444.4	433.1	426.9	423.1	414.3	414.3	418.1
75°	360.3	366.6	349.0	346.5	330.2	318.9	308.8	303.8	292.5	287.5	291.3
77.5°	239.8	238.5	229.8	229.8	223.5	209.7	198.4	187.1	172.0	162.0	164.5
80°	155.7	155.7	151.9	151.9	145.6	134.3	120.5	109.2	100.4	92.9	92.9
82.5°	99.2	97.9	96.7	95.4	92.9	81.6	71.6	64.0	57.8	52.7	54.0
85°	55.2	55.2	52.7	52.7	47.7	41.4	36.4	31.4	27.6	26.4	26.4
87.5°	18.8	18.8	17.6	17.6	15.1	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)