

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: P639512

Luminaire Tested: GWS-SA5C-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639512
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-SA5C-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15462.3 lumens
Efficiency: N/A
Efficacy: 98.2 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): 157.5
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

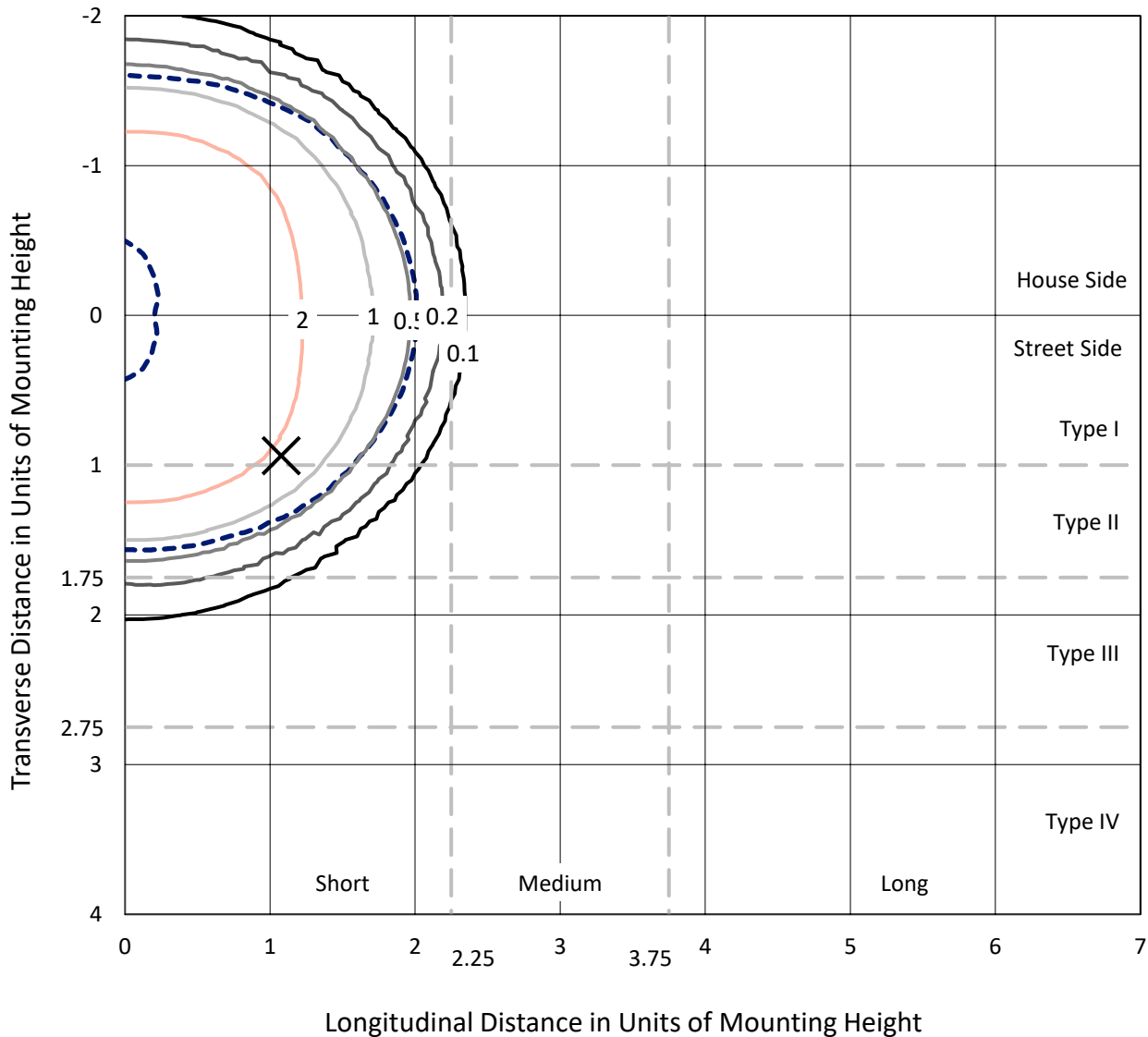


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Iso-Footcandle Lines of Horizontal Illumination

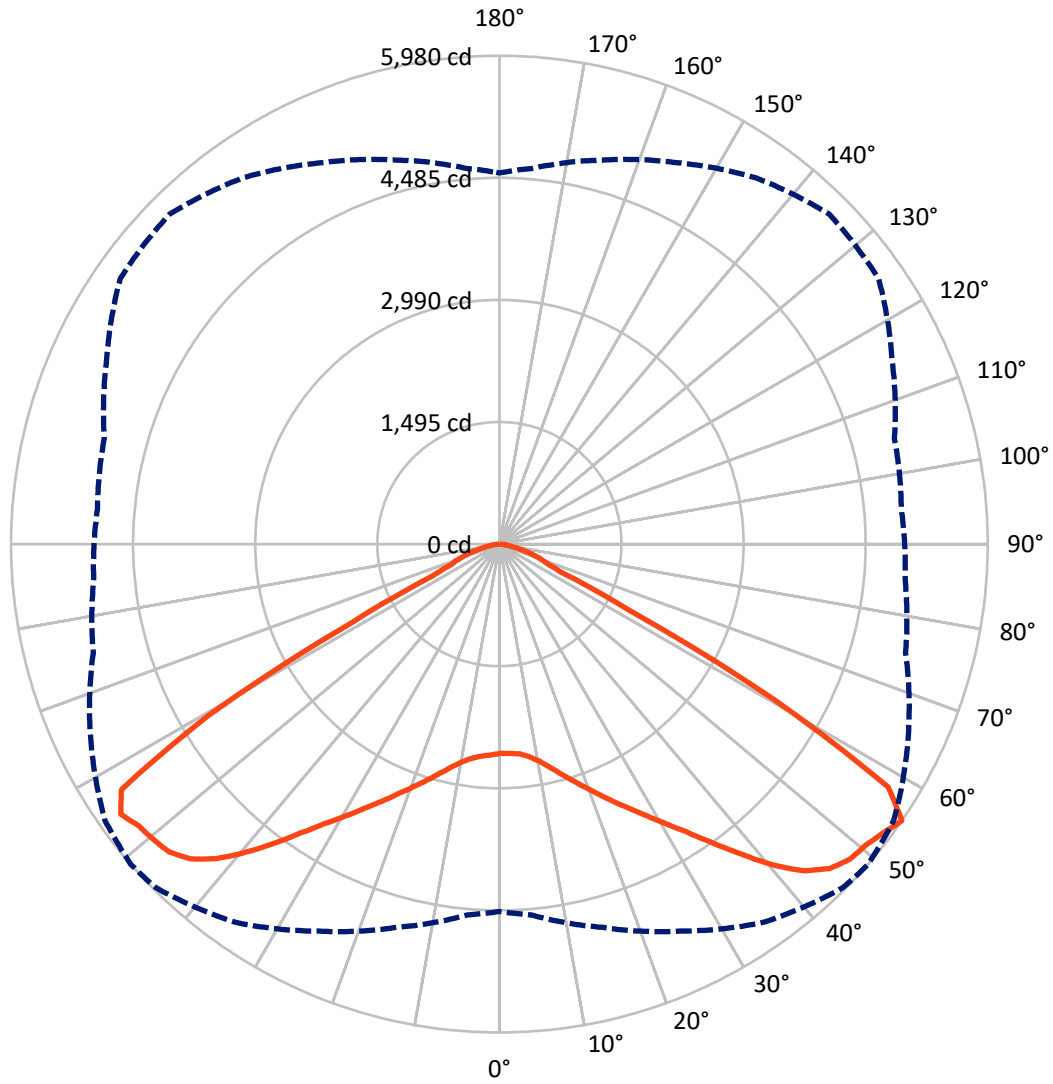
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	7655.3	0.0	7655.3
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	7807.0	0.0	7807.0
	% Fixture	50.5	0.0	50.5
Total	Lumens	15462.3	0.0	15462.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	1.6
10°-20°	824.2	5.3
20°-30°	1569.8	10.2
30°-40°	2661.2	17.2
40°-50°	4004.9	25.9
50°-60°	4383.7	28.4
60°-70°	1386.1	9.0
70°-80°	332.7	2.2
80°-90°	49.9	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°	15462.3	100.0
0°-180°	15462.3	100.0

Coefficient of Utilization



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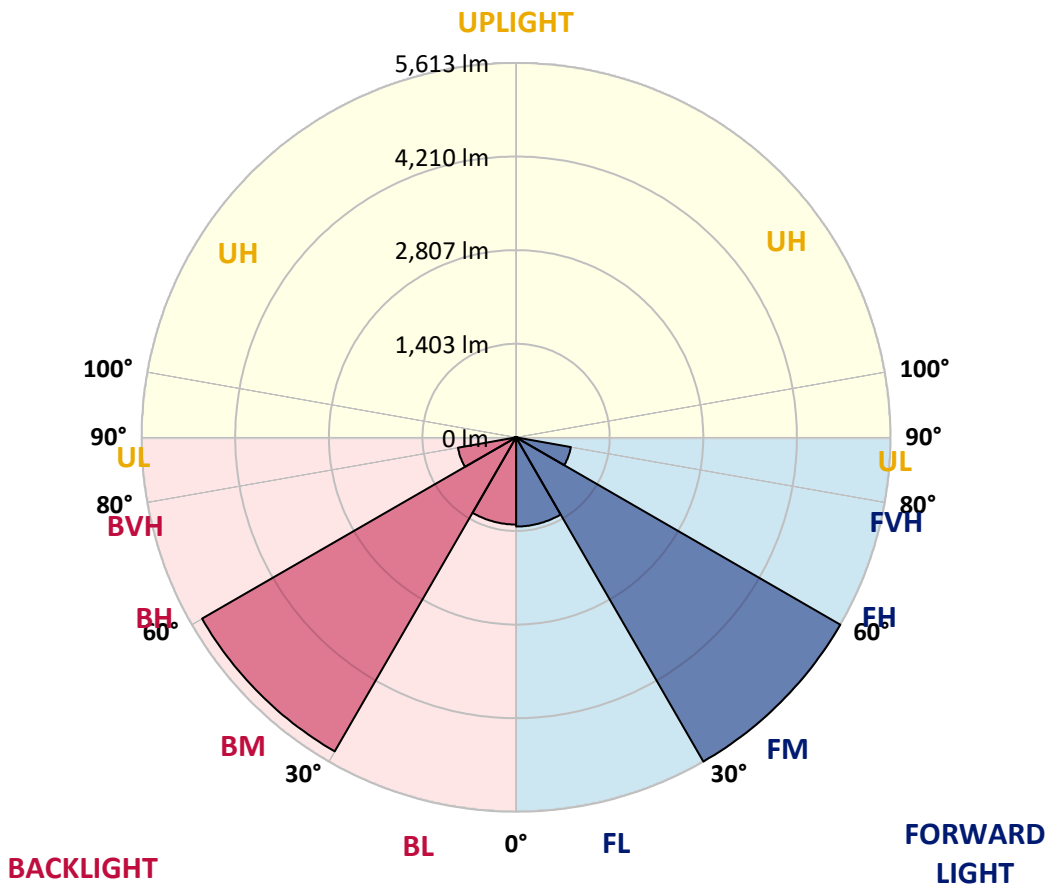
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1336.9	8.6			
FM (30°-60°)	5613.2	36.3			
FH (60°-80°)	833.8	5.4			G1/1800
FVH (80°-90°)	23.1	0.1			G1/100
BL (0°-30°)	1307.0	8.5	B3/2500		
BM (30°-60°)	5436.5	35.2	B4/8500		
BH (60°-80°)	885.0	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°	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4
2.5°	2523.7	2526.2	2531.2	2540.0	2548.8	2561.4	2566.5	2572.7	2571.5	2579.0	2579.0
5°	2511.1	2514.9	2522.4	2535.0	2550.1	2574.0	2580.3	2595.4	2610.5	2629.3	2635.6
7.5°	2526.2	2531.2	2540.0	2560.2	2582.8	2614.2	2626.8	2652.0	2680.9	2714.8	2728.7
10°	2555.1	2561.4	2576.5	2609.2	2645.7	2693.5	2704.8	2736.2	2782.7	2829.3	2856.9
12.5°	2587.8	2597.9	2625.6	2677.1	2731.2	2794.1	2811.7	2850.6	2900.9	2961.3	2999.0
15°	2625.6	2634.4	2677.1	2750.0	2834.3	2917.3	2937.4	2975.1	3031.7	3090.8	3143.6
17.5°	2704.8	2719.9	2770.2	2854.4	2952.5	3050.6	3073.2	3116.0	3161.2	3207.8	3258.1
20°	2812.9	2825.5	2889.6	2994.0	3109.7	3199.0	3221.6	3259.3	3280.7	3304.6	3347.3
22.5°	2921.1	2938.7	3011.6	3134.8	3270.6	3367.4	3385.1	3420.3	3405.2	3397.6	3425.3
25°	3055.6	3079.5	3151.2	3285.7	3424.0	3543.5	3557.3	3587.5	3562.4	3523.4	3522.1
27.5°	3222.8	3244.2	3318.4	3456.7	3593.8	3718.3	3744.7	3784.9	3729.6	3681.8	3647.9
30°	3421.5	3435.4	3517.1	3664.2	3805.0	3923.2	3957.2	3997.4	3955.9	3876.7	3842.8
32.5°	3652.9	3671.8	3766.1	3920.7	4046.5	4164.7	4198.6	4248.9	4203.7	4114.4	4071.6
35°	3930.8	3949.6	4049.0	4217.5	4345.7	4467.7	4491.6	4533.1	4476.5	4373.4	4339.5
37.5°	4232.6	4256.5	4382.2	4541.9	4676.5	4818.5	4819.8	4832.4	4751.9	4623.6	4585.9
40°	4572.1	4603.5	4729.3	4895.2	5057.5	5173.1	5171.9	5136.7	5000.9	4802.2	4744.4
42.5°	4907.8	4933.0	5060.0	5231.0	5393.2	5502.6	5469.9	5384.4	5188.2	4917.9	4841.2
45°	5150.5	5169.4	5302.7	5495.1	5659.8	5727.7	5668.6	5565.5	5300.1	4990.8	4877.6
47.5°	5264.9	5290.1	5424.6	5615.8	5801.9	5840.9	5770.4	5673.6	5365.5	5058.7	4906.6
50°	5203.3	5236.0	5388.2	5565.5	5775.5	5855.9	5805.6	5708.8	5434.7	5125.4	4958.1
52.5°	5043.6	5075.1	5267.5	5482.5	5720.1	5879.8	5878.6	5799.4	5513.9	5144.2	4960.6
55°	4497.9	4559.5	4858.8	5229.7	5652.2	5950.2	5980.4	5896.2	5526.5	5149.3	4987.0
57.5°	2927.3	3035.5	3319.7	3802.5	4650.0	5412.1	5615.8	5635.9	5436.0	5127.9	4992.1
60°	1222.2	1309.0	1534.1	1854.7	2555.1	3461.8	3856.6	4252.7	4730.5	4904.1	4945.5
62.5°	759.5	767.0	789.7	862.6	1096.5	1539.1	1793.1	2164.1	2874.5	3479.4	3758.5
65°	685.3	689.1	694.1	689.1	700.4	754.5	822.4	951.9	1241.1	1541.6	1898.7
67.5°	603.6	608.6	612.4	608.6	612.4	614.9	622.4	633.8	686.6	729.3	762.0
70°	487.9	495.4	501.7	499.2	514.3	514.3	521.8	530.6	557.0	588.5	611.1
72.5°	372.2	365.9	373.5	376.0	389.8	397.4	408.7	418.7	448.9	467.8	496.7
75°	241.4	235.1	246.5	252.7	271.6	281.7	291.7	301.8	323.2	335.7	363.4
77.5°	130.8	129.5	140.8	149.6	169.8	182.3	189.9	197.4	215.0	218.8	236.4
80°	75.4	75.4	83.0	89.3	101.9	115.7	123.2	129.5	142.1	145.9	153.4
82.5°	41.5	41.5	45.3	49.0	59.1	66.6	72.9	78.0	89.3	93.1	96.8
85°	20.1	18.9	21.4	23.9	27.7	31.4	35.2	37.7	46.5	49.0	54.1
87.5°	2.5	2.5	2.5	3.8	5.0	7.5	8.8	8.8	13.8	16.3	18.9
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°	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4	2561.4
2.5°	2586.6	2570.2	2580.3	2584.1	2584.1	2580.3	2563.9	2558.9	2551.4	2540.0	2540.0
5°	2644.4	2631.8	2634.4	2628.1	2613.0	2594.1	2563.9	2548.8	2536.3	2522.4	2521.2
7.5°	2743.8	2727.4	2724.9	2701.0	2660.8	2620.5	2575.3	2547.6	2528.7	2511.1	2509.9
10°	2873.3	2858.2	2839.3	2791.5	2732.4	2673.3	2611.7	2574.0	2546.3	2521.2	2519.9
12.5°	3017.9	3000.3	2965.1	2894.6	2820.5	2762.6	2692.2	2634.4	2592.9	2558.9	2552.6
15°	3175.1	3149.9	3089.6	3006.6	2933.6	2872.0	2796.6	2713.6	2650.7	2596.6	2590.3
17.5°	3295.8	3263.1	3197.7	3119.7	3059.4	2997.8	2899.7	2795.3	2704.8	2636.9	2626.8
20°	3378.8	3352.4	3278.2	3220.3	3185.1	3131.0	3016.6	2898.4	2796.6	2711.1	2706.0
22.5°	3455.5	3424.0	3351.1	3317.2	3317.2	3280.7	3171.3	3031.7	2912.3	2812.9	2800.3
25°	3542.2	3508.3	3453.0	3449.2	3466.8	3450.4	3318.4	3168.8	3029.2	2917.3	2897.2
27.5°	3662.9	3625.2	3592.5	3615.2	3640.3	3622.7	3475.6	3302.1	3154.9	3041.8	3024.2
30°	3855.3	3808.8	3778.6	3806.3	3855.3	3803.8	3644.1	3460.5	3312.1	3187.6	3178.8
32.5°	4079.2	4026.4	3994.9	4038.9	4082.9	4002.5	3844.0	3668.0	3512.1	3381.3	3366.2
35°	4348.3	4281.6	4235.1	4294.2	4339.5	4260.2	4103.1	3935.8	3762.3	3626.5	3606.4
37.5°	4587.2	4506.7	4475.3	4558.3	4618.6	4567.1	4396.0	4238.9	4049.0	3900.6	3891.8
40°	4760.7	4681.5	4658.8	4795.9	4901.5	4889.0	4735.6	4555.7	4377.2	4206.2	4189.8
42.5°	4836.1	4780.8	4785.9	4970.7	5134.2	5214.6	5077.6	4885.2	4712.9	4535.6	4524.3
45°	4852.5	4818.5	4858.8	5090.2	5305.2	5469.9	5353.0	5192.0	4997.1	4826.1	4821.1
47.5°	4870.1	4851.2	4912.9	5158.1	5413.3	5604.5	5539.1	5373.1	5175.7	5008.4	4995.8
50°	4911.6	4904.1	4973.2	5205.8	5464.9	5640.9	5566.7	5402.0	5199.6	5034.8	5004.6
52.5°	4924.2	4911.6	5010.9	5280.0	5550.4	5639.7	5480.0	5264.9	5061.2	4877.6	4846.2
55°	4963.2	4940.5	5008.4	5307.7	5668.6	5712.6	5474.9	5153.0	4868.8	4618.6	4544.4
57.5°	4973.2	4948.1	4992.1	5262.4	5540.3	5501.3	4812.3	4158.4	3622.7	3344.8	3376.3
60°	4919.1	4926.7	4851.2	4821.1	4443.8	3923.2	2946.2	2355.2	1849.7	1635.9	1682.5
62.5°	3744.7	3776.1	3518.3	3059.4	2352.7	1864.8	1233.6	958.2	811.1	773.3	779.6
65°	1889.9	1932.7	1664.9	1376.9	1023.6	827.4	715.5	692.9	685.3	676.5	676.5
67.5°	748.2	760.8	750.7	702.9	653.9	636.3	631.2	628.7	619.9	614.9	616.2
70°	601.1	611.1	596.0	565.9	545.7	544.5	542.0	536.9	530.6	530.6	534.4
72.5°	490.4	500.5	479.1	460.2	445.1	433.8	427.5	423.8	415.0	415.0	418.7
75°	360.9	367.2	349.6	347.1	330.7	319.4	309.3	304.3	293.0	288.0	291.7
77.5°	240.2	238.9	230.1	230.1	223.8	210.0	198.7	187.4	172.3	162.2	164.7
80°	155.9	155.9	152.2	152.2	145.9	134.5	120.7	109.4	100.6	93.1	93.1
82.5°	99.3	98.1	96.8	95.6	93.1	81.7	71.7	64.1	57.8	52.8	54.1
85°	55.3	55.3	52.8	52.8	47.8	41.5	36.5	31.4	27.7	26.4	26.4
87.5°	18.9	18.9	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)