

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: P637257

Luminaire Tested: GWS-SA4C-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637257
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17112.1 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

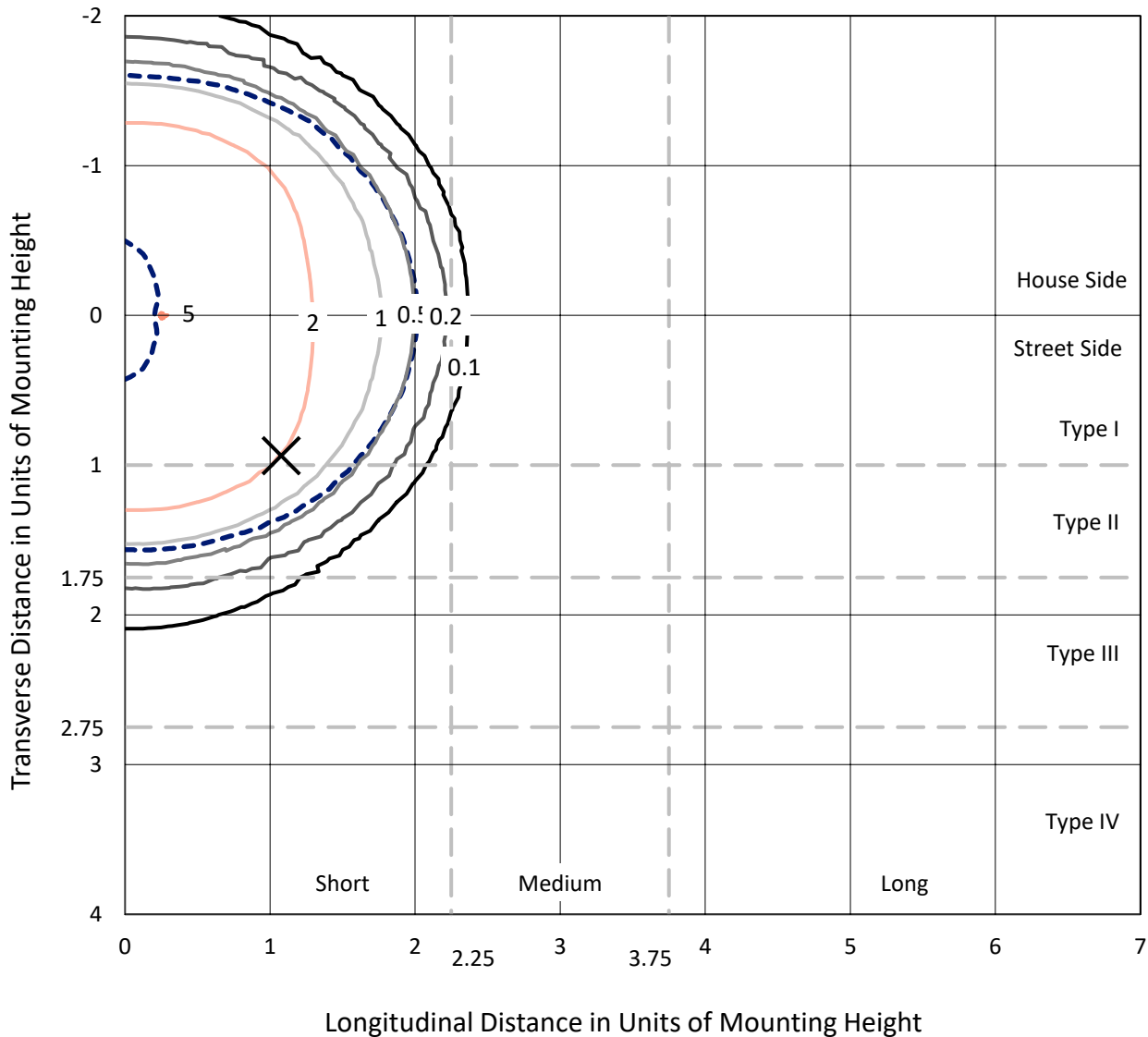
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

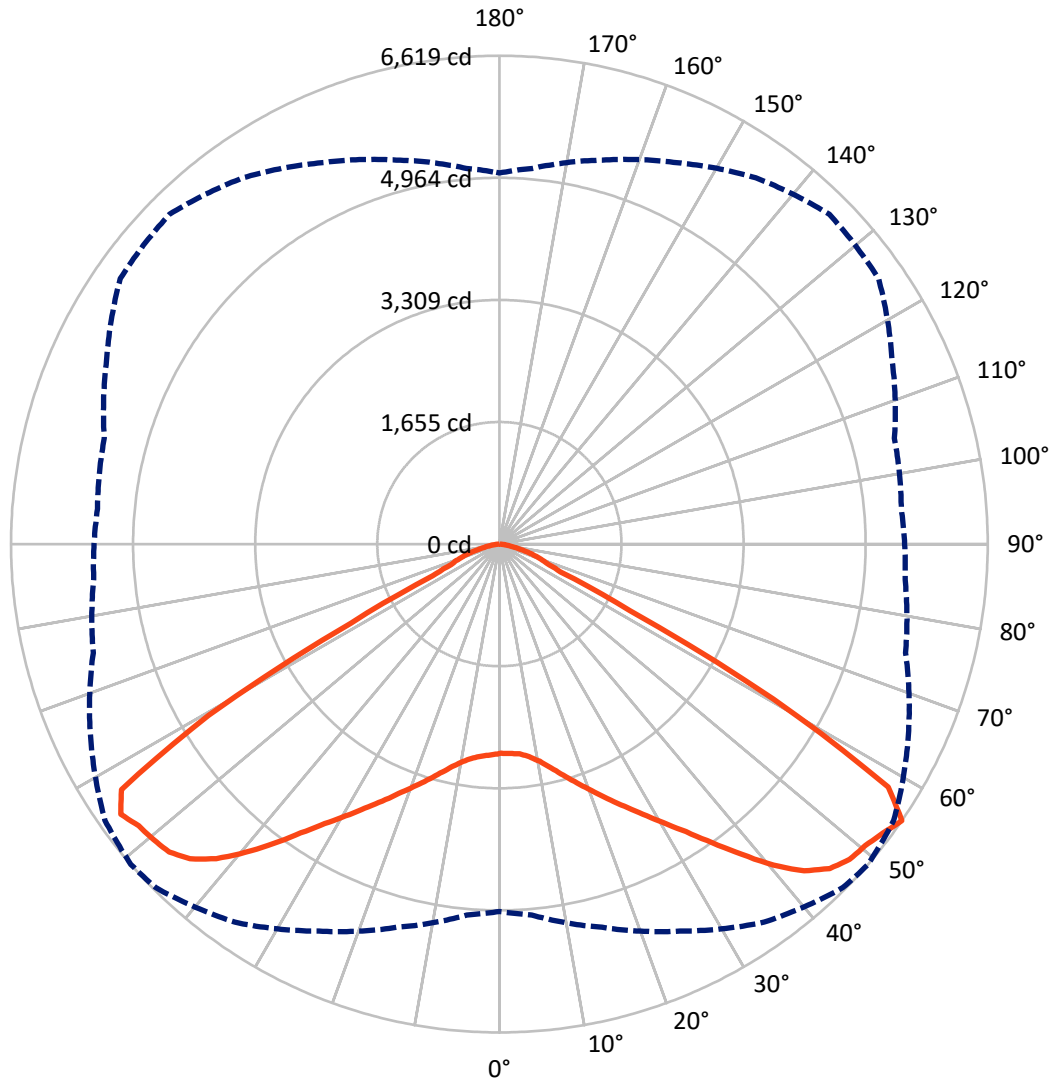
✕ Max cd
 - - - 1/2 Max cd



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	8472.1	0.0	8472.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	8640.0	0.0	8640.0
	% Fixture	50.5	0.0	50.5
Total	Lumens	17112.1	0.0	17112.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.6
10°-20°	912.1	5.3
20°-30°	1737.3	10.2
30°-40°	2945.1	17.2
40°-50°	4432.2	25.9
50°-60°	4851.4	28.4
60°-70°	1534.0	9.0
70°-80°	368.2	2.2
80°-90°	55.3	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°	17112.1	100.0
0°-180°	17112.1	100.0

Coefficient of Utilization



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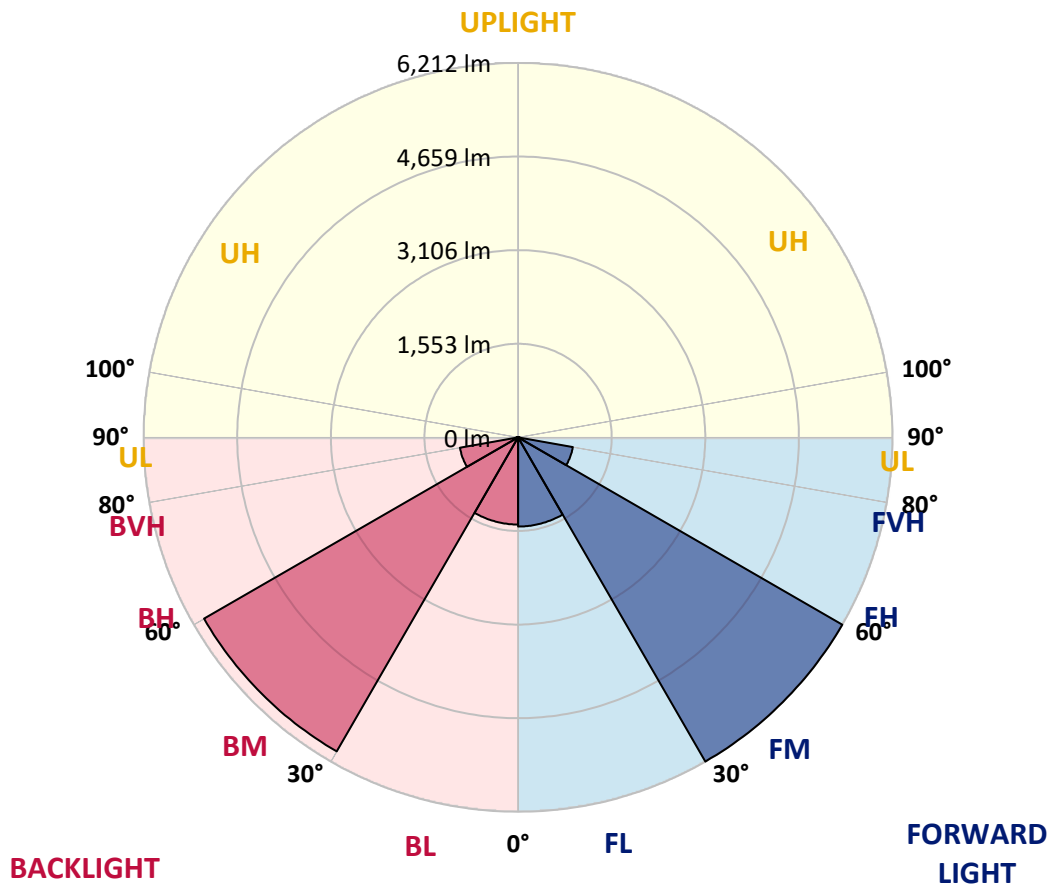
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.5	8.6			
FM (30°-60°)	6212.2	36.3			
FH (60°-80°)	922.7	5.4			G1/1800
FVH (80°-90°)	25.6	0.1			G1/100
BL (0°-30°)	1446.4	8.5	B3/2500		
BM (30°-60°)	6016.5	35.2	B4/8500		
BH (60°-80°)	979.5	5.7	B2/1000		G1/1800
BVH (80°-90°)	29.7	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°	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7
2.5°	2793.0	2795.8	2801.3	2811.1	2820.8	2834.7	2840.3	2847.2	2845.9	2854.2	2854.2
5°	2779.1	2783.2	2791.6	2805.5	2822.2	2848.6	2855.6	2872.3	2889.0	2909.9	2916.8
7.5°	2795.8	2801.3	2811.1	2833.3	2858.4	2893.2	2907.1	2934.9	2966.9	3004.5	3019.8
10°	2827.8	2834.7	2851.4	2887.6	2928.0	2980.8	2993.4	3028.2	3079.6	3131.1	3161.8
12.5°	2863.9	2875.1	2905.7	2962.8	3022.6	3092.2	3111.7	3154.8	3210.5	3277.3	3319.0
15°	2905.7	2915.4	2962.8	3043.5	3136.7	3228.6	3250.8	3292.6	3355.2	3420.6	3479.0
17.5°	2993.4	3010.1	3065.7	3159.0	3267.5	3376.1	3401.1	3448.4	3498.5	3550.0	3605.7
20°	3113.0	3127.0	3197.9	3313.4	3441.5	3540.3	3565.3	3607.1	3630.7	3657.2	3704.5
22.5°	3232.7	3252.2	3332.9	3469.3	3619.6	3726.7	3746.2	3785.2	3768.5	3760.1	3790.8
25°	3381.6	3408.1	3487.4	3636.3	3789.4	3921.6	3936.9	3970.3	3942.5	3899.3	3897.9
27.5°	3566.7	3590.4	3672.5	3825.6	3977.2	4115.0	4144.2	4188.8	4127.5	4074.7	4037.1
30°	3786.6	3801.9	3892.4	4055.2	4211.0	4341.8	4379.4	4423.9	4378.0	4290.4	4252.8
32.5°	4042.6	4063.5	4167.9	4339.1	4478.2	4609.0	4646.6	4702.3	4652.2	4553.4	4506.1
35°	4350.2	4371.1	4481.0	4667.5	4809.4	4944.4	4970.9	5016.8	4954.2	4840.0	4802.5
37.5°	4684.2	4710.6	4849.8	5026.5	5175.4	5332.7	5334.1	5348.0	5258.9	5117.0	5075.2
40°	5059.9	5094.7	5233.9	5417.6	5597.1	5725.1	5723.7	5684.8	5534.5	5314.6	5250.6
42.5°	5431.5	5459.3	5599.9	5789.1	5968.6	6089.7	6053.5	5958.9	5741.8	5442.6	5357.7
45°	5700.1	5720.9	5868.4	6081.4	6263.7	6338.8	6273.4	6159.3	5865.7	5523.3	5398.1
47.5°	5826.7	5854.5	6003.4	6215.0	6420.9	6464.1	6386.1	6279.0	5938.0	5598.5	5430.1
50°	5758.5	5794.7	5963.1	6159.3	6391.7	6480.8	6425.1	6317.9	6014.6	5672.2	5487.1
52.5°	5581.8	5616.6	5829.5	6067.4	6330.5	6507.2	6505.8	6418.1	6102.2	5693.1	5489.9
55°	4977.8	5046.0	5377.2	5787.7	6255.3	6585.1	6618.5	6525.3	6116.2	5698.7	5519.2
57.5°	3239.7	3359.4	3673.9	4208.2	5146.2	5989.5	6215.0	6237.2	6016.0	5675.0	5524.7
60°	1352.7	1448.7	1697.8	2052.6	2827.8	3831.1	4268.1	4706.4	5235.3	5427.3	5473.2
62.5°	840.5	848.9	873.9	954.6	1213.5	1703.3	1984.4	2395.0	3181.2	3850.6	4159.5
65°	758.4	762.6	768.2	762.6	775.1	835.0	910.1	1053.5	1373.5	1706.1	2101.3
67.5°	668.0	673.5	677.7	673.5	677.7	680.5	688.9	701.4	759.8	807.1	843.3
70°	539.9	548.3	555.3	552.5	569.2	569.2	577.5	587.3	616.5	651.3	676.3
72.5°	411.9	405.0	413.3	416.1	431.4	439.8	452.3	463.4	496.8	517.7	549.7
75°	267.2	260.2	272.8	279.7	300.6	311.7	322.9	334.0	357.6	371.6	402.2
77.5°	144.7	143.3	155.9	165.6	187.9	201.8	210.1	218.5	238.0	242.1	261.6
80°	83.5	83.5	91.8	98.8	112.7	128.0	136.4	143.3	157.3	161.4	169.8
82.5°	45.9	45.9	50.1	54.3	65.4	73.8	80.7	86.3	98.8	103.0	107.2
85°	22.3	20.9	23.7	26.4	30.6	34.8	39.0	41.7	51.5	54.3	59.8
87.5°	2.8	2.8	2.8	4.2	5.6	8.3	9.7	9.7	15.3	18.1	20.9
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°	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7	2834.7
2.5°	2862.6	2844.5	2855.6	2859.8	2859.8	2855.6	2837.5	2831.9	2823.6	2811.1	2811.1
5°	2926.6	2912.7	2915.4	2908.5	2891.8	2870.9	2837.5	2820.8	2806.9	2791.6	2790.2
7.5°	3036.5	3018.4	3015.6	2989.2	2944.7	2900.1	2850.0	2819.4	2798.5	2779.1	2777.7
10°	3179.8	3163.1	3142.3	3089.4	3024.0	2958.6	2890.4	2848.6	2818.0	2790.2	2788.8
12.5°	3339.9	3320.4	3281.4	3203.5	3121.4	3057.4	2979.5	2915.4	2869.5	2831.9	2825.0
15°	3513.8	3486.0	3419.2	3327.4	3246.6	3178.5	3095.0	3003.1	2933.5	2873.7	2866.7
17.5°	3647.4	3611.2	3538.9	3452.6	3385.8	3317.6	3209.1	3093.6	2993.4	2918.2	2907.1
20°	3739.3	3710.1	3627.9	3563.9	3525.0	3465.1	3338.5	3207.7	3095.0	3000.3	2994.8
22.5°	3824.2	3789.4	3708.7	3671.1	3671.1	3630.7	3509.7	3355.2	3223.0	3113.0	3099.1
25°	3920.2	3882.6	3821.4	3817.2	3836.7	3818.6	3672.5	3506.9	3352.4	3228.6	3206.3
27.5°	4053.8	4012.0	3975.8	4000.9	4028.7	4009.2	3846.4	3654.4	3491.6	3366.3	3346.8
30°	4266.7	4215.2	4181.8	4212.4	4266.7	4209.6	4032.9	3829.7	3665.5	3527.7	3518.0
32.5°	4514.4	4456.0	4421.2	4469.9	4518.6	4429.5	4254.2	4059.3	3886.8	3742.1	3725.4
35°	4812.2	4738.5	4687.0	4752.4	4802.5	4714.8	4540.8	4355.8	4163.7	4013.4	3991.2
37.5°	5076.6	4987.6	4952.8	5044.6	5111.4	5054.4	4865.1	4691.1	4481.0	4316.8	4307.1
40°	5268.7	5181.0	5155.9	5307.6	5424.5	5410.6	5240.8	5041.8	4844.2	4655.0	4636.9
42.5°	5352.2	5290.9	5296.5	5501.1	5682.0	5771.0	5619.3	5406.4	5215.8	5019.6	5007.0
45°	5370.2	5332.7	5377.2	5633.3	5871.2	6053.5	5924.1	5746.0	5530.3	5341.0	5335.5
47.5°	5389.7	5368.9	5437.0	5708.4	5990.9	6202.4	6130.1	5946.4	5727.9	5542.8	5528.9
50°	5435.7	5427.3	5503.8	5761.3	6048.0	6242.8	6160.7	5978.4	5754.3	5572.0	5538.6
52.5°	5449.6	5435.7	5545.6	5843.4	6142.6	6241.4	6064.7	5826.7	5601.3	5398.1	5363.3
55°	5492.7	5467.7	5542.8	5874.0	6273.4	6322.1	6059.1	5702.8	5388.3	5111.4	5029.3
57.5°	5503.8	5476.0	5524.7	5823.9	6131.5	6088.3	5325.7	4602.1	4009.2	3701.7	3736.5
60°	5444.0	5452.4	5368.9	5335.5	4918.0	4341.8	3260.6	2606.5	2047.1	1810.5	1862.0
62.5°	4144.2	4179.0	3893.7	3385.8	2603.7	2063.8	1365.2	1060.4	897.6	855.8	862.8
65°	2091.6	2138.9	1842.5	1523.8	1132.8	915.7	791.8	766.8	758.4	748.7	748.7
67.5°	828.0	841.9	830.8	777.9	723.6	704.2	698.6	695.8	686.1	680.5	681.9
70°	665.2	676.3	659.6	626.2	604.0	602.6	599.8	594.2	587.3	587.3	591.4
72.5°	542.7	553.9	530.2	509.3	492.6	480.1	473.1	469.0	459.2	459.2	463.4
75°	399.4	406.4	386.9	384.1	366.0	353.5	342.3	336.8	324.2	318.7	322.9
77.5°	265.8	264.4	254.7	254.7	247.7	232.4	219.9	207.4	190.7	179.5	182.3
80°	172.6	172.6	168.4	168.4	161.4	148.9	133.6	121.1	111.3	103.0	103.0
82.5°	109.9	108.5	107.2	105.8	103.0	90.5	79.3	71.0	64.0	58.4	59.8
85°	61.2	61.2	58.4	58.4	52.9	45.9	40.4	34.8	30.6	29.2	29.2
87.5°	20.9	20.9	19.5	19.5	16.7	12.5	9.7	8.3	7.0	5.6	7.0
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)