

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: P637332

Luminaire Tested: GWS-SA4C-750-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-750-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

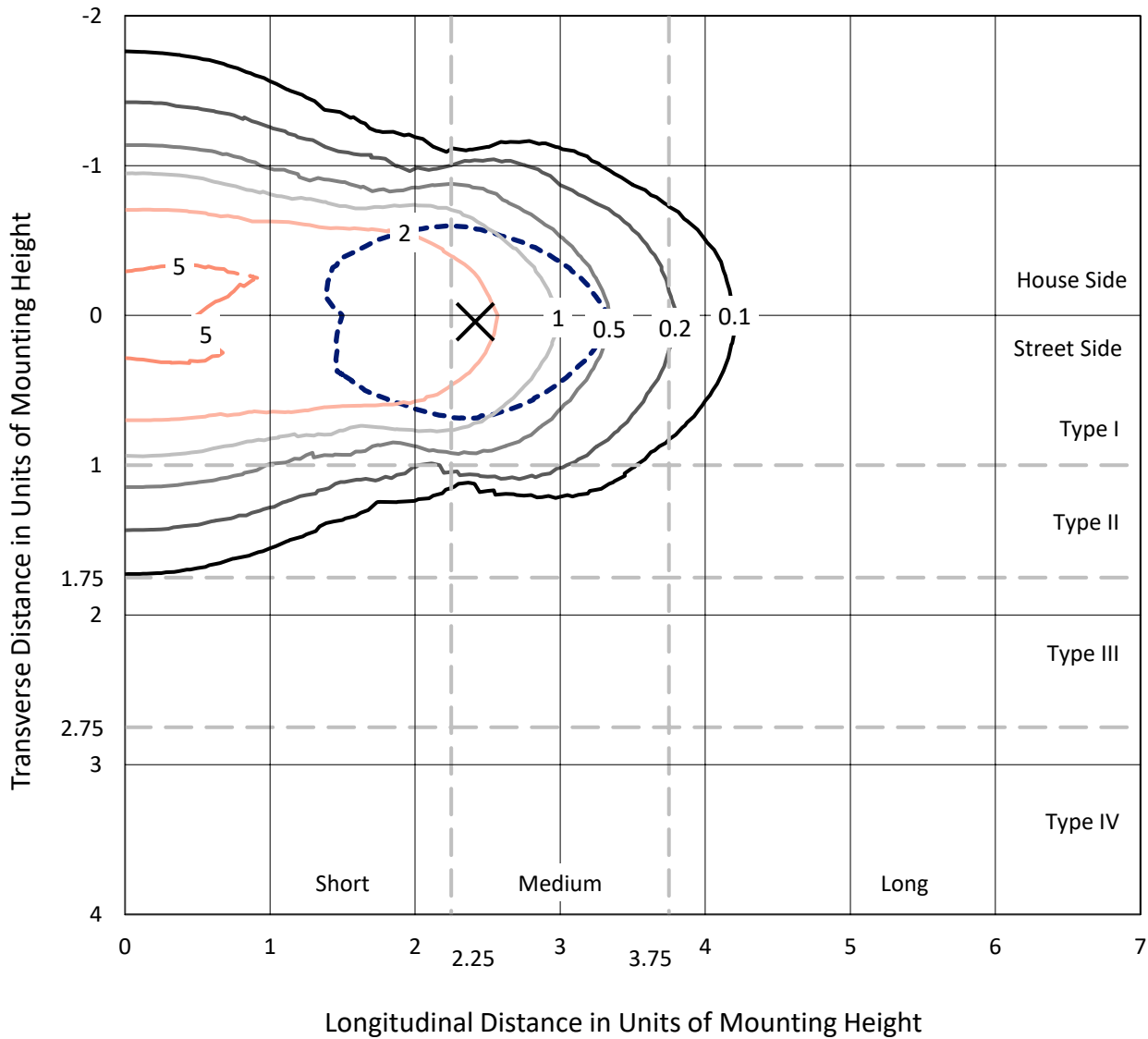
Lumens per Lamp: N/A  
Luminaire Lumens: 19820.2 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

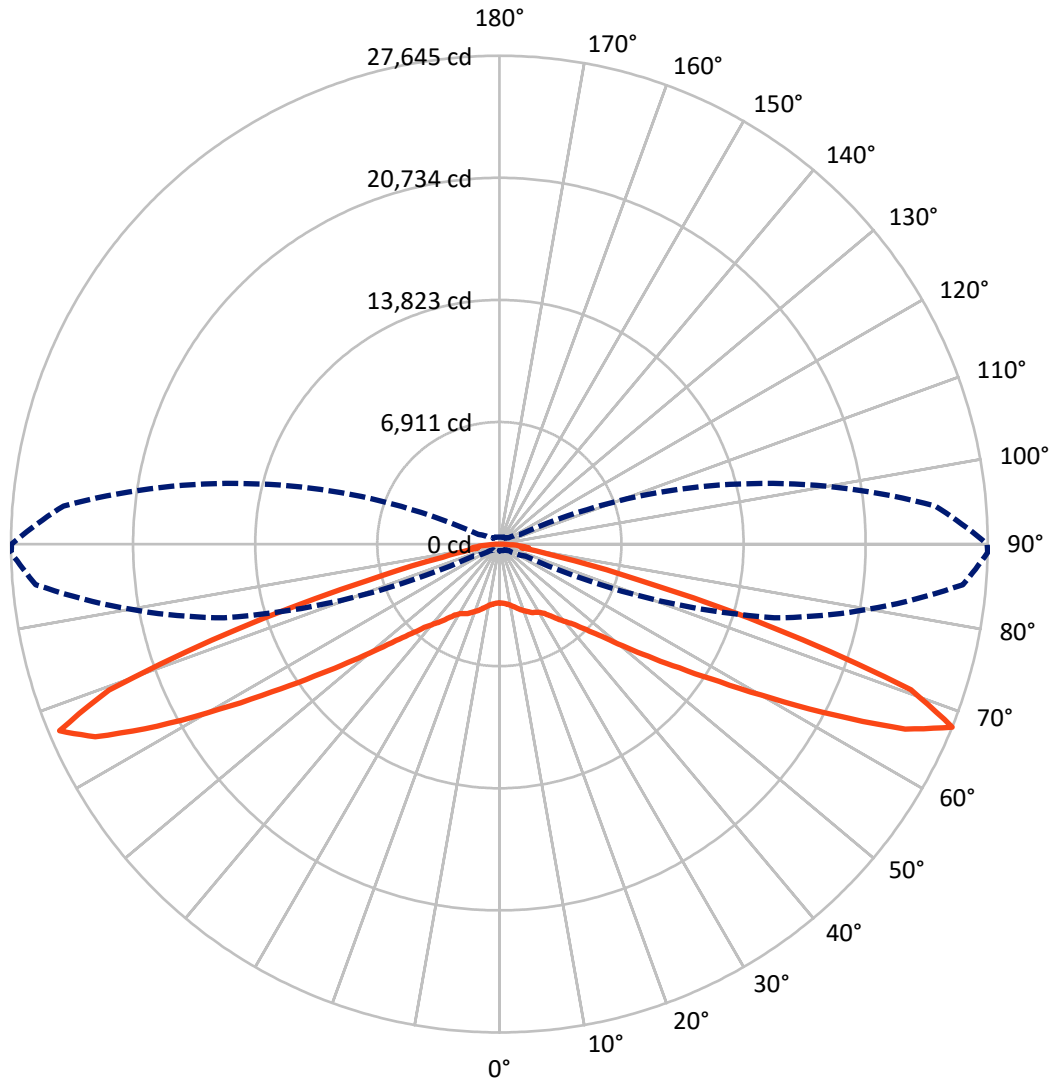
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9823.2	0.0	9823.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	9997.0	0.0	9997.0
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	19820.2	0.0	19820.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.7	1.7
10°-20°	1086.5	5.5
20°-30°	1836.8	9.3
30°-40°	2520.7	12.7
40°-50°	3214.5	16.2
50°-60°	4033.0	20.3
60°-70°	4864.2	24.5
70°-80°	1759.7	8.9
80°-90°	171.1	0.9
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°	19820.2	100.0
0°-180°	19820.2	100.0

**Coefficient of Utilization**



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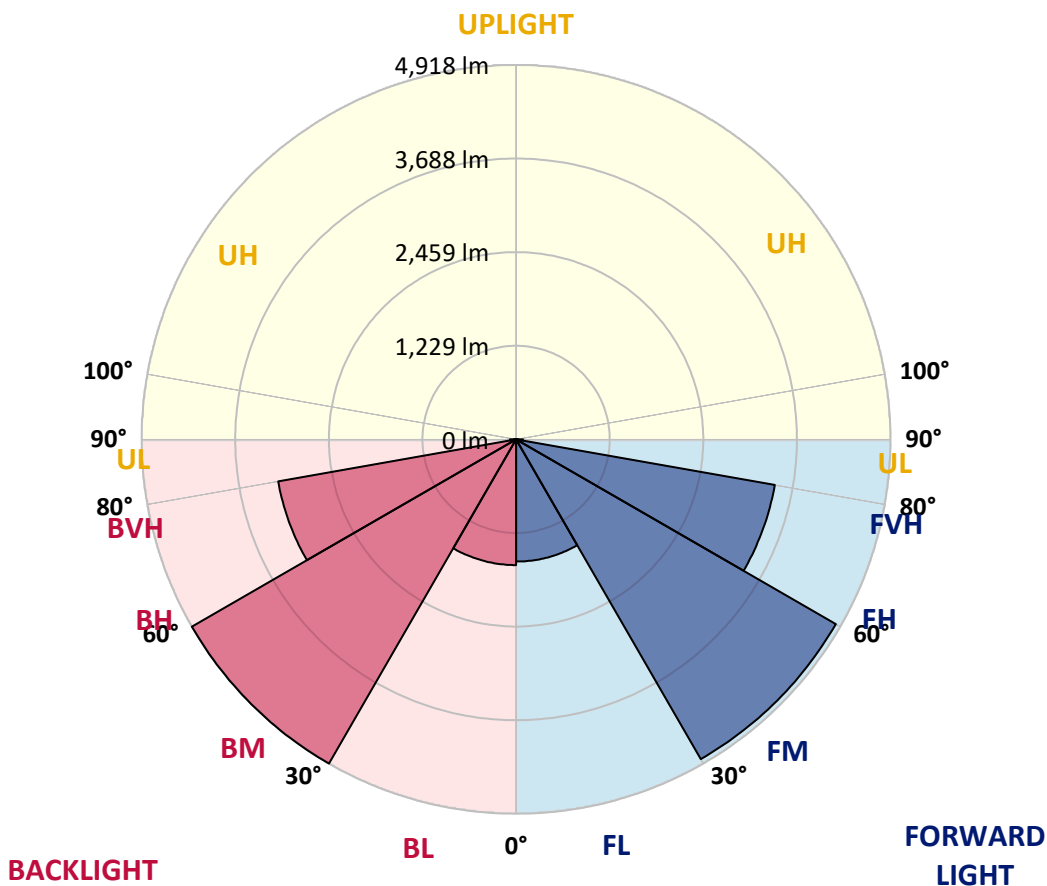
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1605.3	8.1			
FM (30°-60°)	4850.4	24.5			
FH (60°-80°)	3451.0	17.4			G2/5000
FVH (80°-90°)	90.3	0.5			G1/100
BL (0°-30°)	1651.7	8.3	B3/2500		
BM (30°-60°)	4917.8	24.8	B3/5000		
BH (60°-80°)	3172.9	16.0	B4/5000		G4/5000
BVH (80°-90°)	80.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7
2.5°	3336.6	3333.8	3326.7	3348.0	3343.7	3345.2	3353.7	3348.0	3338.0	3321.0	3345.2
5°	3430.6	3429.2	3413.5	3426.3	3412.1	3402.1	3400.7	3386.4	3375.1	3356.6	3382.2
7.5°	3521.7	3520.3	3507.4	3530.2	3518.8	3507.4	3494.6	3466.2	3439.1	3412.1	3440.5
10°	3591.4	3590.0	3587.2	3619.9	3622.7	3627.0	3621.3	3572.9	3525.9	3493.2	3521.7
12.5°	3631.3	3635.6	3642.7	3702.5	3732.4	3760.8	3767.9	3728.1	3649.8	3602.8	3637.0
15°	3604.2	3612.8	3648.4	3756.6	3839.1	3903.2	3930.2	3897.5	3796.4	3718.1	3756.6
17.5°	3474.7	3481.8	3551.6	3716.7	3898.9	4046.9	4091.1	4071.1	3958.7	3863.3	3900.3
20°	3295.3	3311.0	3386.4	3617.0	3888.9	4146.6	4264.7	4257.6	4135.2	3988.6	4032.7
22.5°	3133.1	3151.6	3231.3	3486.1	3822.0	4172.2	4439.8	4458.3	4296.0	4113.8	4149.4
25°	2950.9	2967.9	3070.4	3330.9	3706.7	4152.3	4589.3	4673.3	4478.3	4257.6	4290.4
27.5°	2764.4	2777.2	2878.3	3155.8	3555.8	4115.3	4707.4	4909.6	4657.6	4357.3	4380.0
30°	2600.7	2617.8	2710.3	2980.8	3390.7	4041.2	4804.2	5161.5	4864.0	4469.7	4488.2
32.5°	2442.7	2456.9	2558.0	2808.5	3215.6	3927.4	4891.1	5457.6	5170.1	4679.0	4679.0
35°	2243.4	2269.0	2382.9	2643.4	3050.5	3776.5	4953.7	5802.1	5588.6	4987.9	4989.3
37.5°	2059.8	2074.0	2193.6	2456.9	2876.8	3605.7	4959.4	6159.4	6118.1	5380.7	5383.6
40°	1850.5	1869.0	1997.1	2257.6	2677.6	3426.3	4905.3	6492.5	6673.3	5785.0	5769.3
42.5°	1638.4	1665.5	1787.9	2042.7	2462.6	3207.1	4761.5	6809.9	7377.9	6253.3	6214.9
45°	1433.4	1450.5	1572.9	1813.5	2216.4	2945.2	4530.9	7114.5	8214.9	6965.1	6909.5
47.5°	1202.8	1210.0	1336.6	1567.2	1961.5	2653.4	4200.7	7386.4	9134.4	7907.4	7812.0
50°	997.9	1007.8	1107.5	1305.3	1649.8	2307.5	3789.3	7545.8	10306.0	9192.8	9027.7
52.5°	807.1	817.1	896.8	1054.8	1363.7	1913.2	3279.7	7508.8	11494.6	10788.5	10547.9
55°	652.0	659.1	713.2	837.0	1073.3	1521.7	2677.6	7177.2	12814.1	12872.5	12354.3
57.5°	550.9	553.7	590.7	666.2	838.4	1172.9	2066.9	6394.2	14197.7	15531.5	14680.3
60°	492.5	493.9	511.0	558.0	661.9	895.4	1514.6	5147.3	15631.2	18858.2	17690.9
62.5°	455.5	455.5	469.7	496.8	549.5	689.0	1113.2	3696.8	16660.4	22478.1	21318.0
65°	419.9	419.9	429.9	452.7	481.1	562.3	835.6	2384.3	17165.7	25504.4	25246.8
67.5°	374.4	375.8	382.9	407.1	432.7	469.7	633.4	1612.8	16116.6	26341.4	27645.3
70°	331.7	333.1	343.1	358.7	380.1	405.7	495.4	1111.7	11730.9	21938.6	24718.6
72.5°	284.7	290.4	297.5	314.6	327.4	345.9	404.3	720.3	6825.6	14112.3	16340.1
75°	233.4	240.6	249.1	266.2	274.7	281.8	333.1	513.9	3284.0	7151.5	8143.7
77.5°	180.8	187.9	197.9	213.5	219.2	227.8	254.8	371.5	1572.9	3170.1	3417.8
80°	121.0	123.8	132.4	150.9	160.9	166.5	187.9	253.4	683.3	1272.6	1261.2
82.5°	74.0	75.4	78.3	89.7	93.9	99.6	122.4	155.2	326.0	1446.3	1658.3
85°	27.0	25.6	24.2	31.3	37.0	42.7	56.9	78.3	142.3	993.6	1111.7
87.5°	0.0	0.0	0.0	1.4	2.8	2.8	5.7	11.4	34.2	371.5	254.8
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°	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7
2.5°	3338.0	3322.4	3342.3	3356.6	3387.9	3399.3	3402.1	3392.1	3392.1	3375.1	3377.9
5°	3376.5	3366.5	3399.3	3423.5	3469.0	3486.1	3497.5	3490.4	3494.6	3483.2	3486.1
7.5°	3434.8	3426.3	3483.2	3530.2	3577.2	3597.1	3607.1	3601.4	3602.8	3588.6	3592.9
10°	3516.0	3518.8	3587.2	3648.4	3711.0	3730.9	3735.2	3718.1	3703.9	3678.3	3679.7
12.5°	3627.0	3641.2	3738.0	3806.4	3870.4	3898.9	3867.6	3804.9	3746.6	3702.5	3696.8
15°	3748.0	3773.6	3913.1	4000.0	4069.7	4055.5	3963.0	3822.0	3706.7	3641.2	3628.4
17.5°	3893.2	3931.6	4106.7	4210.6	4270.4	4179.3	3985.7	3775.1	3614.2	3525.9	3508.9
20°	4029.9	4091.1	4311.7	4446.9	4454.1	4249.1	3975.8	3679.7	3477.5	3369.4	3346.6
22.5°	4155.1	4233.4	4526.7	4698.9	4606.4	4280.4	3914.6	3544.5	3312.4	3185.7	3165.8
25°	4291.8	4402.8	4777.2	4938.0	4758.7	4267.6	3786.4	3376.5	3113.1	2983.6	2969.4
27.5°	4385.7	4525.2	5029.1	5182.9	4883.9	4195.0	3621.3	3192.9	2930.9	2808.5	2788.6
30°	4493.9	4671.8	5306.7	5449.1	4960.8	4088.2	3444.8	3022.0	2761.5	2629.2	2614.9
32.5°	4690.3	4913.8	5651.2	5730.9	4985.0	3955.8	3275.4	2856.9	2585.0	2452.6	2432.7
35°	5006.4	5268.3	6135.2	6045.5	4966.5	3810.6	3114.6	2663.3	2404.2	2280.4	2260.5
37.5°	5404.9	5730.9	6674.7	6328.8	4915.3	3651.2	2923.8	2501.0	2242.0	2116.7	2105.3
40°	5776.5	6177.9	7279.7	6573.6	4811.3	3454.8	2740.2	2331.7	2066.9	1934.5	1908.9
42.5°	6241.9	6775.7	7980.0	6785.7	4640.5	3219.9	2533.8	2122.4	1847.7	1728.1	1696.8
45°	6949.4	7612.7	8794.2	6989.3	4385.7	2930.9	2274.7	1867.6	1607.1	1484.7	1460.5
47.5°	7832.0	8659.0	9676.8	7110.3	3998.5	2626.3	1981.5	1598.6	1338.1	1200.0	1188.6
50°	9071.8	10180.7	10623.4	7088.9	3565.8	2264.7	1651.2	1278.3	1060.5	960.8	945.2
52.5°	10582.1	12091.0	11646.9	6832.7	3106.0	1853.4	1286.8	1003.5	841.3	770.1	757.3
55°	12476.8	14378.5	12724.4	6283.2	2525.2	1419.2	1010.7	791.5	680.4	637.7	632.0
57.5°	14822.6	17340.8	13762.2	5358.0	1898.9	1083.3	778.6	653.4	600.7	575.1	573.7
60°	17918.7	20485.2	14663.2	4163.7	1359.4	828.5	643.4	583.6	542.3	525.3	523.8
62.5°	21599.8	23340.7	15224.1	2835.6	1022.1	660.5	566.5	529.5	505.3	495.4	493.9
65°	25383.4	25145.7	14956.5	1857.6	775.8	560.8	508.2	488.3	466.9	456.9	456.9
67.5°	27618.3	24764.2	12902.4	1289.7	614.9	492.5	458.4	439.9	404.3	395.7	395.7
70°	24462.4	20066.7	8456.9	943.8	498.2	431.3	398.6	373.0	358.7	350.2	348.8
72.5°	16179.2	13057.5	4496.8	654.8	415.7	367.3	337.4	327.4	310.3	301.8	300.4
75°	8052.6	6858.3	2304.6	472.6	345.9	294.7	281.8	277.6	263.3	252.0	249.1
77.5°	3356.6	3053.4	1074.7	343.1	263.3	237.7	226.3	226.3	210.7	197.9	192.2
80°	1265.5	1127.4	508.2	234.9	195.0	176.5	169.4	163.7	150.9	135.2	126.7
82.5°	1692.5	1106.0	249.1	146.6	128.1	113.9	103.9	99.6	92.5	85.4	79.7
85°	1096.1	785.8	112.5	75.4	64.1	48.4	42.7	39.9	35.6	31.3	28.5
87.5°	223.5	263.3	34.2	14.2	8.5	4.3	4.3	1.4	0.0	0.0	0.0
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)