

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: P638798

Luminaire Tested: GWS-SA4F-750-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35828.5 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

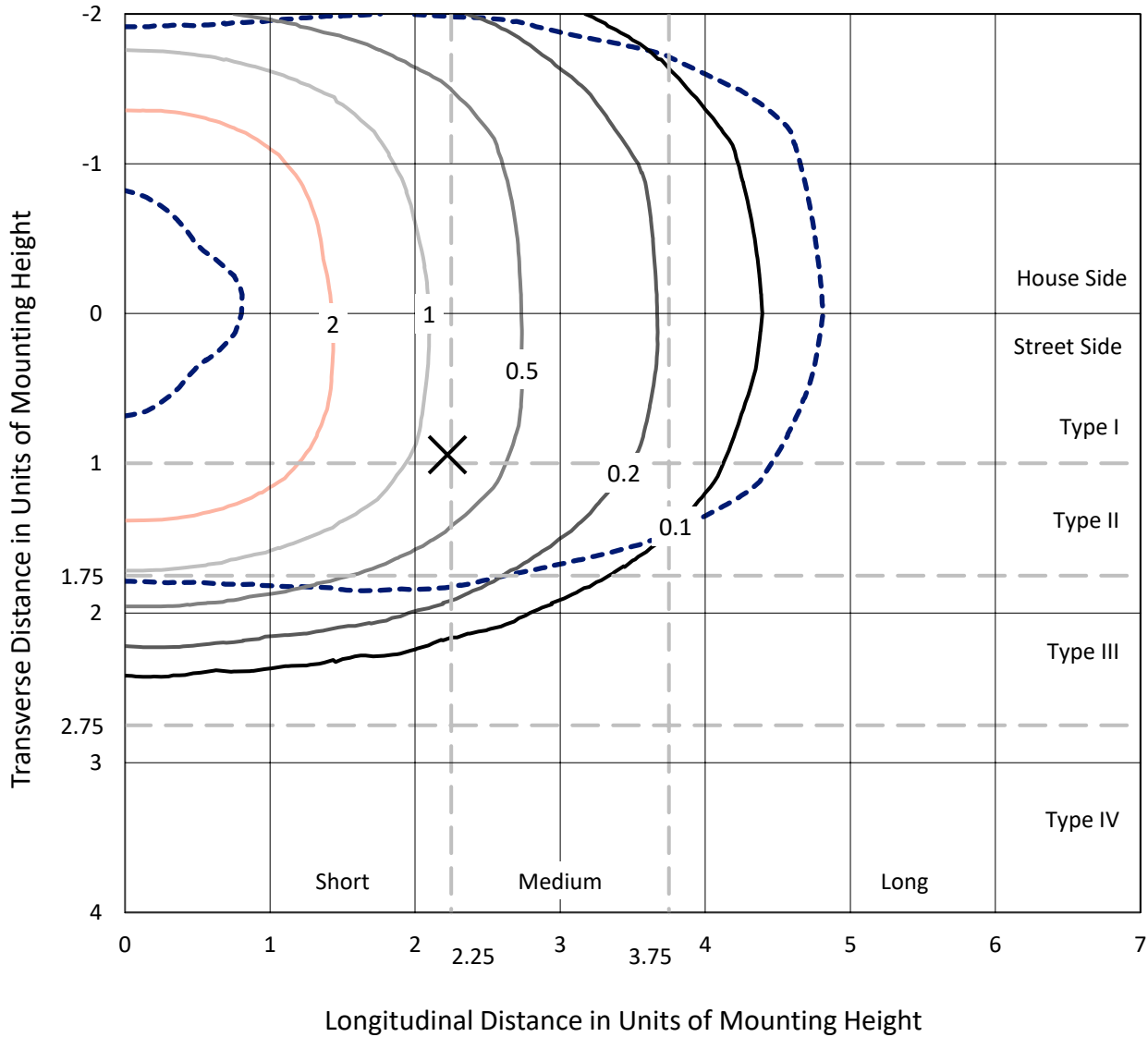
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

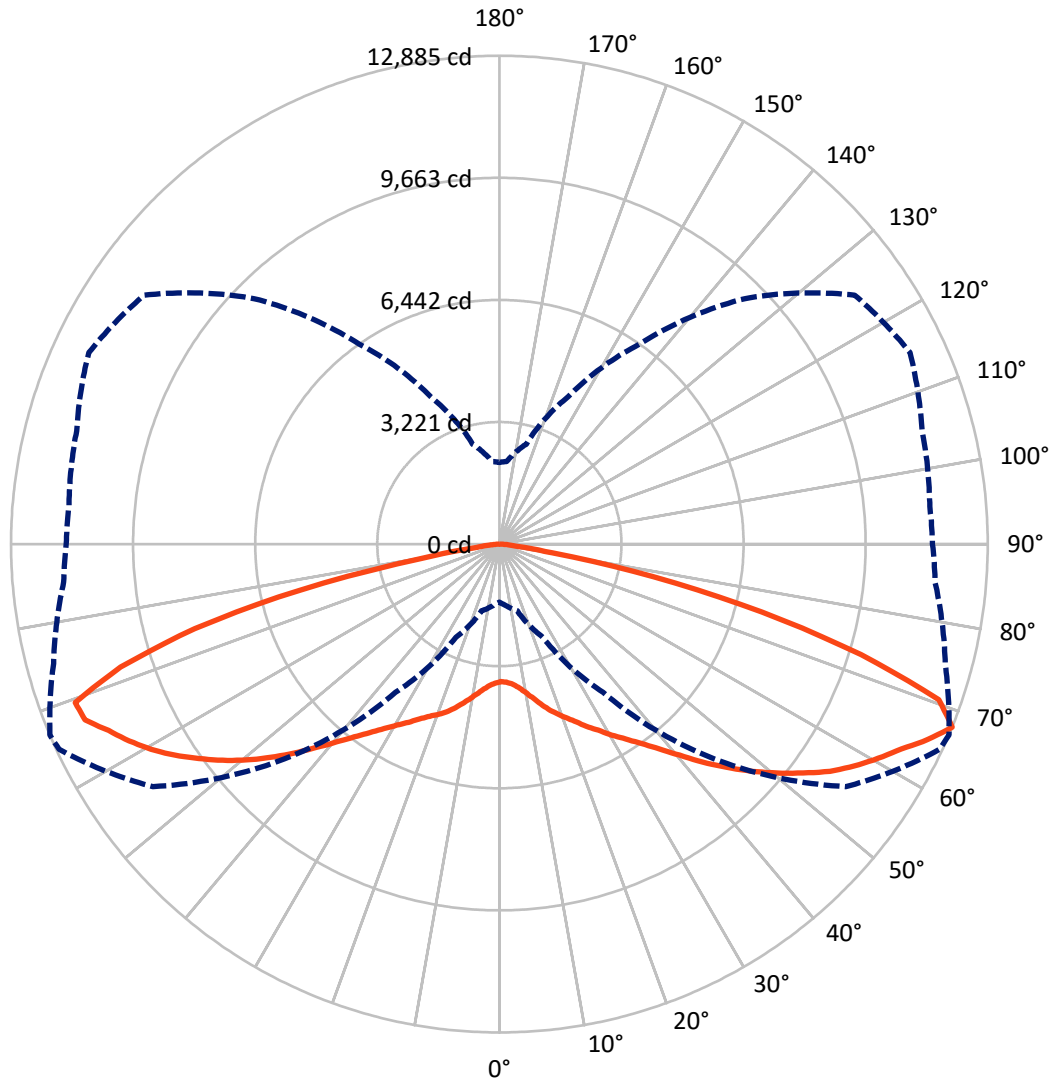
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17716.6	0.0	17716.6
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	18112.0	0.0	18112.0
	% Fixture	50.6	0.0	50.6
Total	Lumens	35828.5	0.0	35828.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	1.0
10°-20°	1202.5	3.4
20°-30°	2359.3	6.6
30°-40°	4019.4	11.2
40°-50°	6454.4	18.0
50°-60°	8770.2	24.5
60°-70°	8389.3	23.4
70°-80°	3988.6	11.1
80°-90°	289.0	0.8
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°	35828.5	100.0
0°-180°	35828.5	100.0

Coefficient of Utilization



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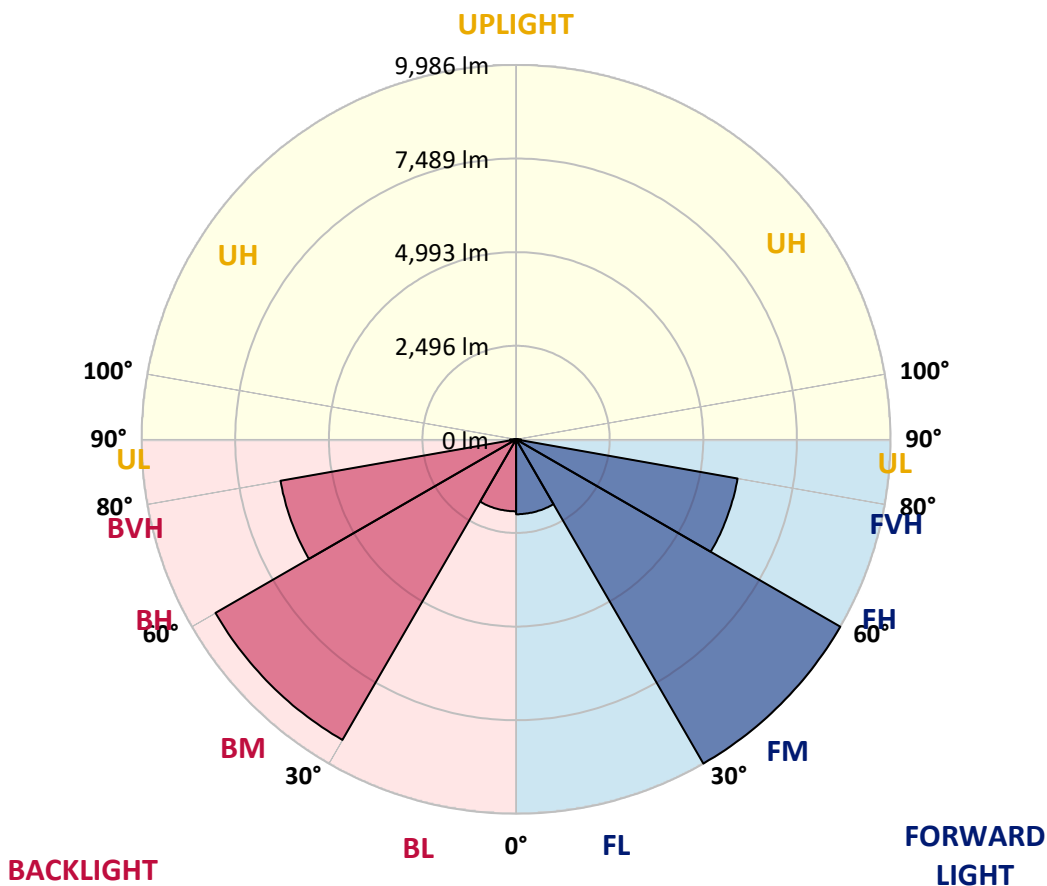
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1997.7	5.6			
FM (30°-60°)	9985.7	27.9			
FH (60°-80°)	5998.6	16.7			G3/7500
FVH (80°-90°)	129.9	0.4			G2/225
BL (0°-30°)	1920.0	5.4	B3/2500		
BM (30°-60°)	9258.3	25.8	B5		
BH (60°-80°)	6379.2	17.8	B5		G5
BVH (80°-90°)	159.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8
2.5°	3553.0	3558.0	3565.5	3580.4	3595.4	3617.9	3640.3	3637.8	3647.8	3655.3	3662.8
5°	3533.0	3538.0	3550.5	3570.4	3592.9	3630.3	3677.7	3697.7	3712.7	3740.1	3765.1
7.5°	3575.4	3585.4	3602.9	3630.3	3665.3	3712.7	3777.5	3812.5	3834.9	3884.8	3927.2
10°	3632.8	3645.3	3680.2	3732.6	3785.0	3857.4	3939.7	3992.1	4007.1	4072.0	4151.8
12.5°	3687.7	3702.7	3760.1	3854.9	3949.7	4047.0	4144.3	4209.2	4214.2	4301.5	4391.3
15°	3775.0	3787.5	3864.9	3987.1	4131.8	4266.6	4386.3	4431.2	4451.2	4513.6	4625.9
17.5°	3967.2	3982.1	4081.9	4214.2	4366.4	4508.6	4628.4	4665.8	4665.8	4718.2	4810.5
20°	4174.3	4189.2	4321.5	4491.1	4675.8	4820.5	4912.8	4877.9	4865.4	4880.4	4945.2
22.5°	4406.3	4433.7	4561.0	4758.1	4985.2	5162.3	5209.7	5104.9	5070.0	5035.1	5050.0
25°	4703.2	4735.6	4860.4	5070.0	5292.0	5479.2	5506.6	5344.4	5324.5	5202.2	5157.3
27.5°	5045.0	5070.0	5224.7	5431.8	5638.9	5796.1	5826.0	5626.4	5559.0	5389.4	5284.6
30°	5486.7	5509.1	5643.9	5848.4	6028.1	6137.9	6175.3	5900.8	5848.4	5589.0	5426.8
32.5°	5968.2	5978.2	6115.4	6312.5	6472.2	6577.0	6524.6	6205.2	6127.9	5836.0	5613.9
35°	6519.6	6519.6	6696.8	6856.5	6983.7	7013.6	6913.8	6549.6	6459.7	6142.9	5865.9
37.5°	7061.1	7076.0	7240.7	7430.3	7542.6	7537.6	7355.5	6956.3	6854.0	6509.6	6202.8
40°	7647.4	7679.8	7844.5	8056.6	8163.9	8148.9	7869.5	7425.3	7320.5	6913.8	6614.4
42.5°	8186.3	8238.7	8430.8	8647.9	8765.2	8755.2	8463.3	7964.3	7862.0	7402.9	7103.5
45°	8615.5	8670.4	8909.9	9211.8	9398.9	9381.5	9087.1	8523.2	8398.4	7916.9	7587.5
47.5°	8992.2	9049.6	9316.6	9636.0	9932.9	9962.8	9693.4	9087.1	8954.8	8468.3	8096.5
50°	9281.7	9309.1	9608.5	9957.8	10302.2	10469.3	10234.8	9653.4	9493.8	9012.2	8593.0
52.5°	9259.2	9296.6	9665.9	10140.0	10601.6	10876.0	10713.8	10187.4	10032.7	9508.7	9099.5
55°	8802.6	8840.0	9279.2	9970.3	10768.7	11172.9	11155.5	10696.4	10584.1	10015.2	9626.0
57.5°	8136.4	8218.8	8655.4	9401.4	10549.2	11410.0	11479.8	11160.5	11043.2	10511.7	10147.5
60°	6943.8	7053.6	7557.6	8525.7	9845.6	11330.1	11826.6	11552.2	11479.8	10973.3	10619.0
62.5°	5045.0	5124.9	5796.1	7066.0	8802.6	10761.2	12118.6	11956.4	11901.5	11387.5	11045.7
65°	3021.5	3203.7	3742.6	4997.6	7101.0	9688.4	11958.9	12485.3	12428.0	11814.2	11410.0
67.5°	1529.5	1611.8	1823.9	2709.6	4775.6	8016.7	11158.0	12814.7	12884.6	12178.4	11539.7
70°	948.1	970.6	1030.5	1337.4	2385.3	5267.1	9124.5	11956.4	12298.2	12121.1	11202.9
72.5°	761.0	766.0	776.0	833.4	1145.2	2462.6	5768.6	9364.0	9980.3	11320.1	10721.3
75°	631.3	633.7	636.2	653.7	713.6	1005.5	2807.0	6434.8	7155.9	9621.0	9940.4
77.5°	506.5	494.0	504.0	511.5	526.5	561.4	968.1	3433.2	4164.3	6315.0	7687.3
80°	329.3	324.4	344.3	351.8	366.8	389.2	516.5	1165.2	1414.7	2298.0	2445.2
82.5°	177.2	167.2	209.6	202.1	209.6	227.1	304.4	426.7	479.1	693.6	586.3
85°	54.9	54.9	57.4	67.4	82.3	79.8	132.2	209.6	232.0	296.9	219.6
87.5°	10.0	10.0	10.0	10.0	10.0	12.5	27.4	42.4	57.4	102.3	77.3
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°	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8
2.5°	3677.7	3655.3	3667.8	3675.2	3672.7	3667.8	3642.8	3637.8	3625.3	3605.4	3600.4
5°	3787.5	3762.6	3765.1	3757.6	3732.6	3700.2	3645.3	3617.9	3595.4	3570.4	3568.0
7.5°	3959.7	3932.2	3924.7	3889.8	3820.0	3745.1	3657.8	3607.9	3570.4	3538.0	3533.0
10°	4179.2	4151.8	4126.8	4044.5	3929.7	3829.9	3715.2	3642.8	3587.9	3548.0	3540.5
12.5°	4423.8	4401.3	4338.9	4219.2	4081.9	3964.7	3847.4	3757.6	3677.7	3617.9	3610.4
15°	4695.7	4645.8	4551.0	4396.3	4266.6	4171.8	4029.5	3907.3	3780.0	3700.2	3682.7
17.5°	4885.4	4842.9	4730.7	4581.0	4478.7	4396.3	4229.1	4054.5	3882.3	3765.1	3740.1
20°	5020.1	4975.2	4847.9	4738.1	4705.7	4635.8	4441.2	4239.1	4039.5	3894.8	3862.4
22.5°	5117.4	5070.0	4940.2	4885.4	4930.3	4917.8	4728.2	4498.6	4261.6	4089.4	4049.5
25°	5209.7	5164.8	5050.0	5070.0	5189.8	5227.2	5022.6	4755.6	4486.1	4284.0	4236.6
27.5°	5297.0	5239.7	5187.3	5297.0	5466.7	5536.6	5319.5	5017.6	4725.7	4518.6	4481.2
30°	5431.8	5364.4	5356.9	5516.6	5786.1	5846.0	5606.4	5304.5	5015.1	4805.5	4758.1
32.5°	5601.4	5539.1	5544.1	5783.6	6095.5	6145.4	5940.8	5658.8	5369.4	5159.8	5094.9
35°	5831.0	5753.6	5796.1	6090.5	6404.9	6497.2	6332.5	6098.0	5816.0	5601.4	5529.1
37.5°	6147.9	6035.6	6122.9	6432.3	6749.2	6886.4	6759.2	6584.5	6305.0	6088.0	6020.6
40°	6552.1	6459.7	6494.7	6836.5	7163.4	7328.0	7248.2	7076.0	6799.1	6572.0	6494.7
42.5°	7031.1	6938.8	6926.3	7290.6	7617.5	7867.0	7789.6	7632.4	7345.5	7086.0	7011.2
45°	7500.2	7415.4	7432.8	7804.6	8171.4	8443.3	8366.0	8181.3	7869.5	7570.0	7510.2
47.5°	7989.2	7919.4	7934.3	8328.6	8732.8	9004.7	8907.4	8682.9	8318.6	7999.2	7926.8
50°	8490.7	8410.9	8433.3	8847.5	9284.2	9541.2	9391.5	9059.6	8657.9	8346.0	8283.6
52.5°	8989.7	8894.9	8952.3	9344.0	9795.7	10000.3	9723.3	9321.6	8932.4	8623.0	8553.1
55°	9563.6	9463.8	9401.4	9820.6	10267.2	10352.1	9972.8	9503.7	9042.1	8690.3	8647.9
57.5°	10087.6	10002.7	9885.5	10304.6	10634.0	10571.6	10164.9	9453.8	8775.2	8323.6	8263.7
60°	10556.7	10484.3	10382.0	10738.8	10888.5	10748.8	10010.2	8862.5	8116.5	7644.9	7617.5
62.5°	10988.3	10911.0	10816.1	11120.5	11100.6	10776.2	9306.6	7954.3	6956.3	6449.8	6404.9
65°	11330.1	11260.3	11232.8	11472.3	11439.9	10239.8	8211.3	6467.2	5082.5	4511.1	4493.6
67.5°	11427.4	11400.0	11547.2	11953.9	11447.4	9161.9	6439.8	4289.0	2729.6	2188.2	2155.7
70°	11063.2	11060.7	11482.3	12063.7	10409.4	6998.7	3800.0	1933.7	1372.3	1217.6	1197.6
72.5°	10589.1	10581.6	10915.9	10406.9	7719.8	3829.9	1599.3	1035.5	858.3	815.9	815.9
75°	9810.6	9790.7	10042.7	7916.9	4341.4	1442.2	848.3	711.1	673.7	666.2	666.2
77.5°	7996.7	7829.5	7432.8	4892.8	1514.5	708.6	561.4	558.9	536.4	533.9	533.9
80°	2629.8	2629.8	3056.5	1866.3	668.7	436.6	396.7	416.7	394.2	379.3	376.8
82.5°	429.2	591.3	840.8	533.9	361.8	272.0	244.5	259.5	272.0	217.1	217.1
85°	169.7	222.1	324.4	249.5	167.2	109.8	117.3	129.7	114.8	99.8	97.3
87.5°	64.9	79.8	114.8	59.9	34.9	20.0	12.5	12.5	10.0	10.0	10.0
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)