

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: P637752

Luminaire Tested: GWS-SA4D-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637752
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-SA4D-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: 21587.9 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

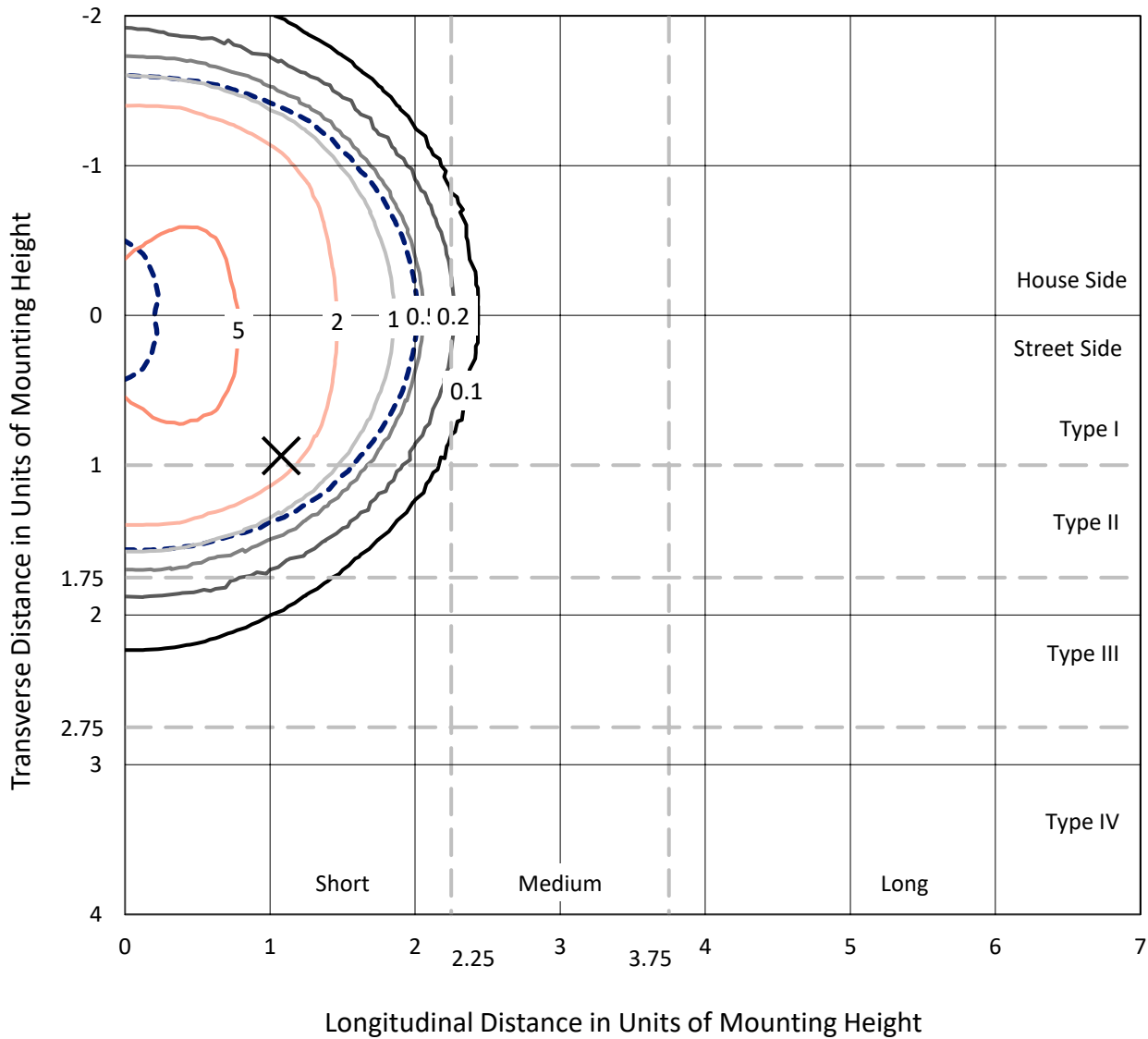
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

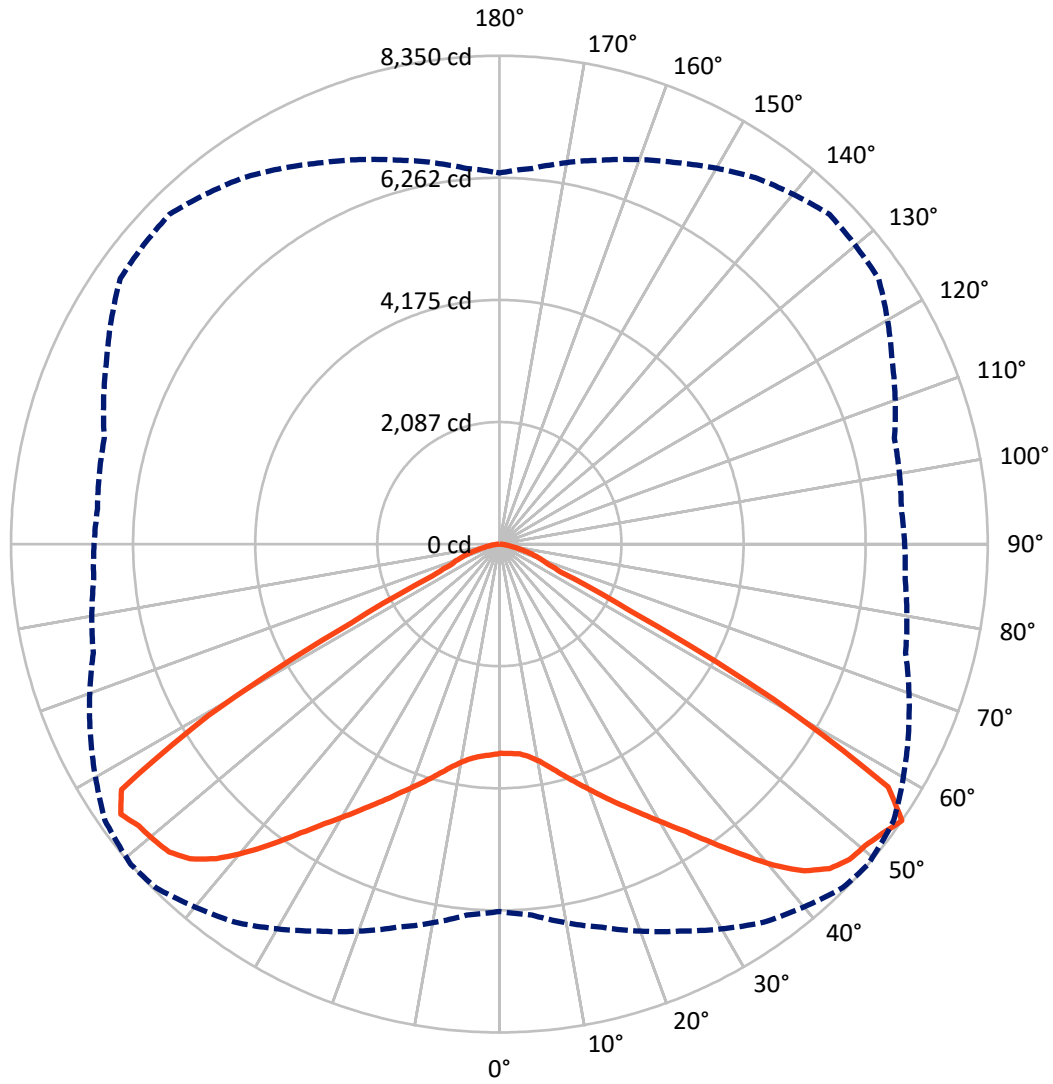
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	10688.1	0.0	10688.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	10899.8	0.0	10899.8
	% Fixture	50.5	0.0	50.5
Total	Lumens	21587.9	0.0	21587.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	1.6
10°-20°	1150.7	5.3
20°-30°	2191.7	10.2
30°-40°	3715.4	17.2
40°-50°	5591.4	25.9
50°-60°	6120.4	28.4
60°-70°	1935.3	9.0
70°-80°	464.5	2.2
80°-90°	69.7	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°	21587.9	100.0
0°-180°	21587.9	100.0

Coefficient of Utilization



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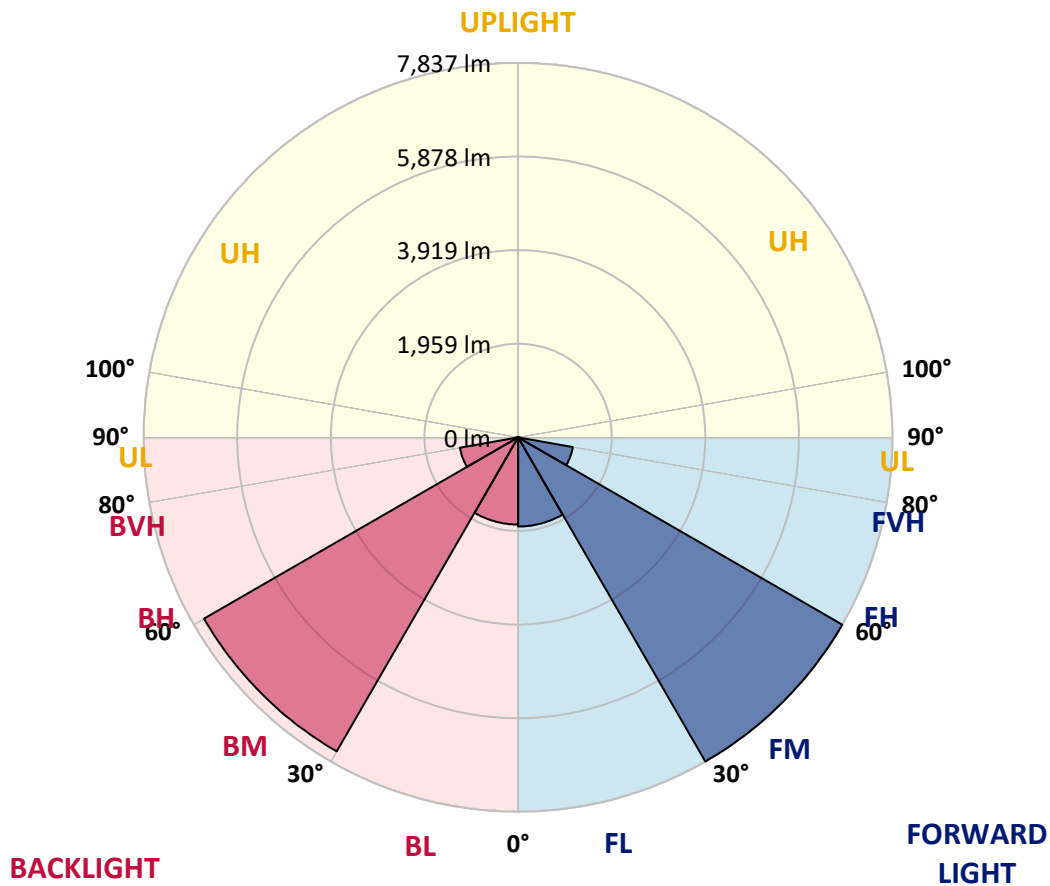
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1866.5	8.6			
FM (30°-60°)	7837.0	36.3			
FH (60°-80°)	1164.1	5.4			G1/1800
FVH (80°-90°)	32.3	0.1			G1/100
BL (0°-30°)	1824.8	8.5	B3/2500		
BM (30°-60°)	7590.2	35.2	B4/8500		
BH (60°-80°)	1235.7	5.7	B3/2500		G1/1800
BVH (80°-90°)	37.4	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°	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2
2.5°	3523.5	3527.0	3534.0	3546.3	3558.6	3576.2	3583.2	3592.0	3590.2	3600.7	3600.7
5°	3505.9	3511.2	3521.7	3539.3	3560.4	3593.7	3602.5	3623.6	3644.6	3671.0	3679.7
7.5°	3527.0	3534.0	3546.3	3574.4	3606.0	3649.9	3667.5	3702.6	3742.9	3790.4	3809.7
10°	3567.4	3576.2	3597.2	3642.9	3693.8	3760.5	3776.3	3820.2	3885.2	3950.1	3988.7
12.5°	3613.0	3627.1	3665.7	3737.7	3813.2	3901.0	3925.5	3980.0	4050.2	4134.4	4187.1
15°	3665.7	3678.0	3737.7	3839.5	3957.1	4073.0	4101.1	4153.8	4232.8	4315.3	4389.0
17.5°	3776.3	3797.4	3867.6	3985.2	4122.2	4259.1	4290.7	4350.4	4413.6	4478.5	4548.8
20°	3927.3	3944.8	4034.4	4180.1	4341.6	4466.3	4497.9	4550.5	4580.4	4613.7	4673.4
22.5°	4078.3	4102.8	4204.7	4376.7	4566.3	4701.5	4726.1	4775.2	4754.2	4743.6	4782.3
25°	4266.1	4299.5	4399.5	4587.4	4780.5	4947.3	4966.6	5008.7	4973.6	4919.2	4917.4
27.5°	4499.6	4529.5	4633.0	4826.2	5017.5	5191.3	5228.2	5284.4	5207.1	5140.4	5093.0
30°	4777.0	4796.3	4910.4	5115.8	5312.5	5477.5	5524.9	5581.1	5523.1	5412.5	5365.1
32.5°	5100.0	5126.4	5258.0	5474.0	5649.5	5814.6	5862.0	5932.2	5869.0	5744.3	5684.6
35°	5488.0	5514.4	5653.0	5888.3	6067.4	6237.7	6271.0	6329.0	6250.0	6106.0	6058.6
37.5°	5909.4	5942.7	6118.3	6341.2	6529.1	6727.5	6729.2	6746.8	6634.4	6455.4	6402.7
40°	6383.4	6427.3	6602.8	6834.6	7061.0	7222.6	7220.8	7171.6	6982.0	6704.7	6623.9
42.5°	6852.1	6887.2	7064.6	7303.3	7529.8	7682.5	7636.9	7517.5	7243.6	6866.2	6759.1
45°	7191.0	7217.3	7403.4	7672.0	7902.0	7996.8	7914.3	7770.3	7399.9	6968.0	6810.0
47.5°	7350.7	7385.8	7573.7	7840.5	8100.4	8154.8	8056.5	7921.3	7491.2	7062.8	6850.4
50°	7264.7	7310.3	7522.8	7770.3	8063.5	8175.9	8105.6	7970.4	7587.7	7155.8	6922.3
52.5°	7041.7	7085.6	7354.2	7654.4	7986.2	8209.2	8207.5	8096.8	7698.3	7182.2	6925.9
55°	6279.8	6365.8	6783.7	7301.6	7891.4	8307.5	8349.7	8232.0	7715.9	7189.2	6962.7
57.5°	4087.0	4238.0	4634.8	5308.9	6492.2	7556.1	7840.5	7868.6	7589.5	7159.4	6969.8
60°	1706.4	1827.6	2141.8	2589.5	3567.4	4833.2	5384.4	5937.5	6604.6	6846.9	6904.8
62.5°	1060.4	1070.9	1102.5	1204.3	1530.9	2148.9	2503.5	3021.4	4013.3	4857.8	5247.5
65°	956.8	962.1	969.1	962.1	977.9	1053.4	1148.2	1329.0	1732.8	2152.4	2651.0
67.5°	842.7	849.7	855.0	849.7	855.0	858.5	869.0	884.8	958.6	1018.3	1063.9
70°	681.2	691.7	700.5	697.0	718.0	718.0	728.6	740.9	777.7	821.6	853.2
72.5°	519.7	510.9	521.4	524.9	544.2	554.8	570.6	584.6	626.8	653.1	693.5
75°	337.1	328.3	344.1	352.9	379.2	393.3	407.3	421.3	451.2	468.7	507.4
77.5°	182.6	180.8	196.6	208.9	237.0	254.6	265.1	275.6	300.2	305.5	330.1
80°	105.3	105.3	115.9	124.6	142.2	161.5	172.0	180.8	198.4	203.7	214.2
82.5°	57.9	57.9	63.2	68.5	82.5	93.0	101.8	108.8	124.6	129.9	135.2
85°	28.1	26.3	29.8	33.4	38.6	43.9	49.2	52.7	65.0	68.5	75.5
87.5°	3.5	3.5	3.5	5.3	7.0	10.5	12.3	12.3	19.3	22.8	26.3
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°	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2	3576.2
2.5°	3611.3	3588.5	3602.5	3607.8	3607.8	3602.5	3579.7	3572.7	3562.1	3546.3	3546.3
5°	3692.0	3674.5	3678.0	3669.2	3648.1	3621.8	3579.7	3558.6	3541.1	3521.7	3520.0
7.5°	3830.7	3807.9	3804.4	3771.0	3714.9	3658.7	3595.5	3556.9	3530.5	3505.9	3504.2
10°	4011.6	3990.5	3964.2	3897.4	3814.9	3732.4	3646.4	3593.7	3555.1	3520.0	3518.2
12.5°	4213.5	4188.9	4139.7	4041.4	3937.8	3857.1	3758.7	3678.0	3620.1	3572.7	3563.9
15°	4432.9	4397.8	4313.5	4197.7	4095.8	4009.8	3904.5	3788.6	3700.8	3625.3	3616.5
17.5°	4601.4	4555.8	4464.5	4355.7	4271.4	4185.4	4048.4	3902.7	3776.3	3681.5	3667.5
20°	4717.3	4680.4	4576.9	4496.1	4446.9	4371.5	4211.7	4046.7	3904.5	3785.1	3778.1
22.5°	4824.4	4780.5	4678.7	4631.3	4631.3	4580.4	4427.6	4232.8	4066.0	3927.3	3909.7
25°	4945.5	4898.1	4820.9	4815.6	4840.2	4817.4	4633.0	4424.1	4229.3	4073.0	4044.9
27.5°	5114.1	5061.4	5015.8	5047.4	5082.5	5057.9	4852.5	4610.2	4404.8	4246.8	4222.2
30°	5382.7	5317.7	5275.6	5314.2	5382.7	5310.7	5087.7	4831.4	4624.3	4450.5	4438.2
32.5°	5695.2	5621.4	5577.6	5639.0	5700.4	5588.1	5366.9	5121.1	4903.4	4720.8	4699.8
35°	6070.9	5977.8	5912.9	5995.4	6058.6	5948.0	5728.5	5495.0	5252.8	5063.2	5035.1
37.5°	6404.4	6292.1	6248.2	6364.1	6448.3	6376.4	6137.6	5918.1	5653.0	5445.9	5433.6
40°	6646.7	6536.1	6504.5	6695.9	6843.3	6825.8	6611.6	6360.6	6111.3	5872.5	5849.7
42.5°	6752.1	6674.8	6681.8	6939.9	7168.1	7280.5	7089.1	6820.5	6580.0	6332.5	6316.7
45°	6774.9	6727.5	6783.7	7106.7	7406.9	7636.9	7473.6	7248.9	6976.8	6738.0	6731.0
47.5°	6799.5	6773.1	6859.1	7201.5	7557.9	7824.7	7733.4	7501.7	7226.1	6992.6	6975.0
50°	6857.4	6846.9	6943.4	7268.2	7629.9	7875.6	7772.1	7542.1	7259.4	7029.4	6987.3
52.5°	6874.9	6857.4	6996.1	7371.8	7749.2	7873.9	7650.9	7350.7	7066.3	6810.0	6766.1
55°	6929.4	6897.8	6992.6	7410.4	7914.3	7975.7	7643.9	7194.5	6797.7	6448.3	6344.8
57.5°	6943.4	6908.3	6969.8	7347.2	7735.2	7680.8	6718.7	5805.8	5057.9	4669.9	4713.8
60°	6867.9	6878.5	6773.1	6731.0	6204.3	5477.5	4113.4	3288.2	2582.5	2284.0	2349.0
62.5°	5228.2	5272.1	4912.2	4271.4	3284.7	2603.6	1722.2	1337.8	1132.4	1079.7	1088.5
65°	2638.7	2698.4	2324.4	1922.4	1429.1	1155.2	998.9	967.3	956.8	944.5	944.5
67.5°	1044.6	1062.1	1048.1	981.4	912.9	888.3	881.3	877.8	865.5	858.5	860.2
70°	839.2	853.2	832.2	790.0	761.9	760.2	756.7	749.6	740.9	740.9	746.1
72.5°	684.7	698.7	668.9	642.6	621.5	605.7	596.9	591.6	579.3	579.3	584.6
75°	503.9	512.6	488.1	484.5	461.7	445.9	431.9	424.9	409.1	402.0	407.3
77.5°	335.3	333.6	321.3	321.3	312.5	293.2	277.4	261.6	240.5	226.5	230.0
80°	217.7	217.7	212.4	212.4	203.7	187.8	168.5	152.7	140.4	129.9	129.9
82.5°	138.7	136.9	135.2	133.4	129.9	114.1	100.1	89.5	80.8	73.7	75.5
85°	77.2	77.2	73.7	73.7	66.7	57.9	50.9	43.9	38.6	36.9	36.9
87.5°	26.3	26.3	24.6	24.6	21.1	15.8	12.3	10.5	8.8	7.0	8.8
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)