

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: P642703

Luminaire Tested: GWS-SA6D-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642703
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-SA6D-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36875.8 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

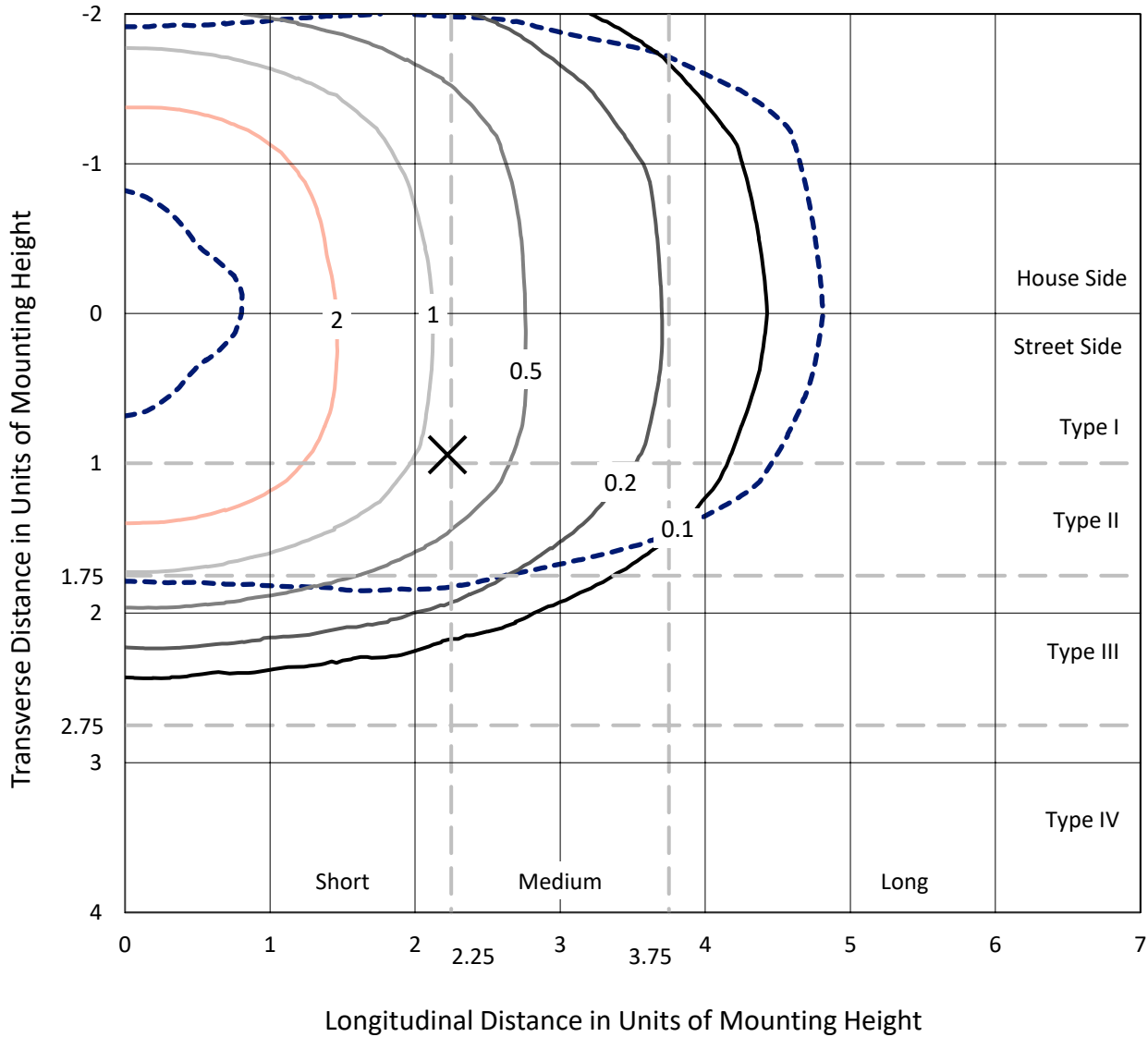
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

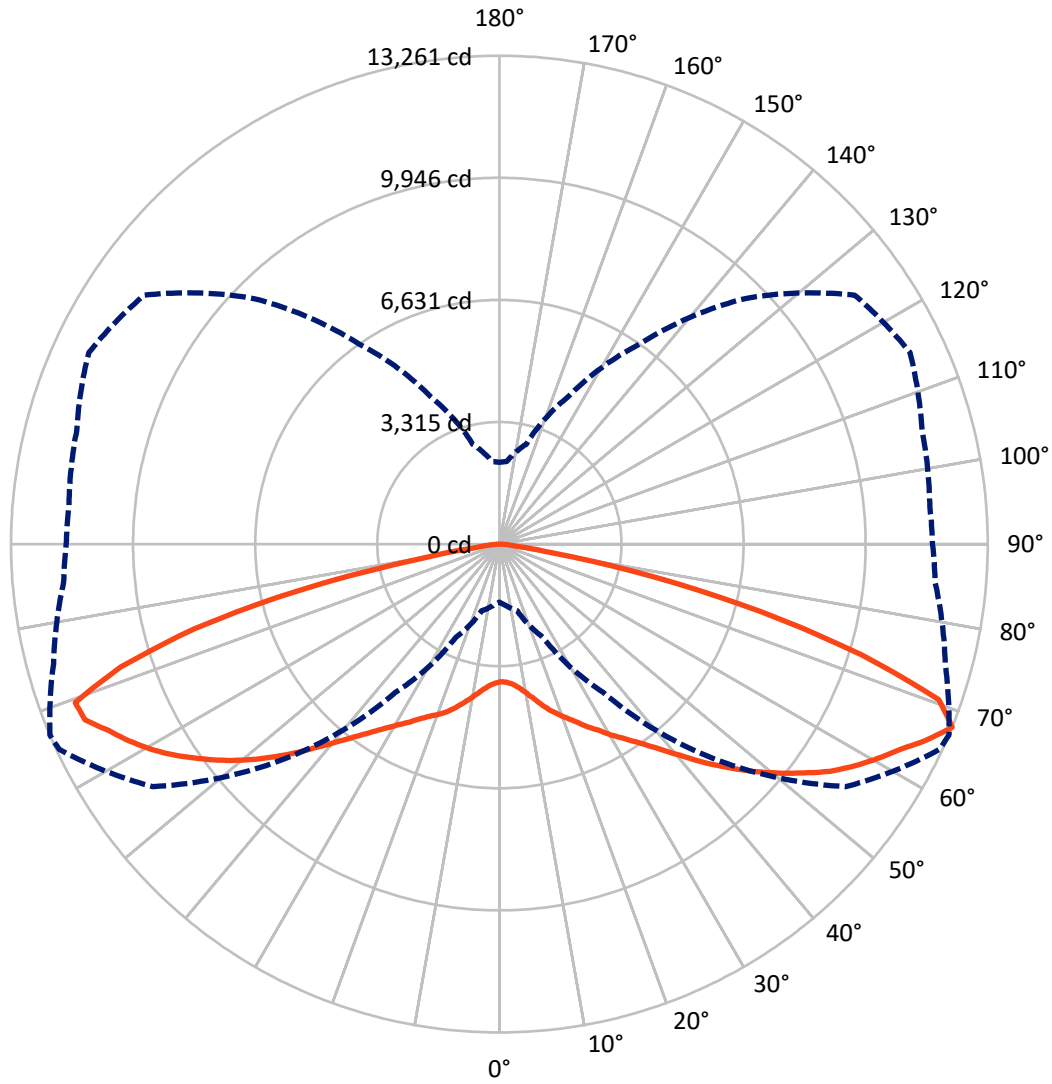
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	18234.4	0.0	18234.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	18641.4	0.0	18641.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	36875.8	0.0	36875.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.3	1.0
10°-20°	1237.6	3.4
20°-30°	2428.2	6.6
30°-40°	4136.9	11.2
40°-50°	6643.0	18.0
50°-60°	9026.5	24.5
60°-70°	8634.5	23.4
70°-80°	4105.1	11.1
80°-90°	297.5	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°	36875.8	100.0
0°-180°	36875.8	100.0

Coefficient of Utilization



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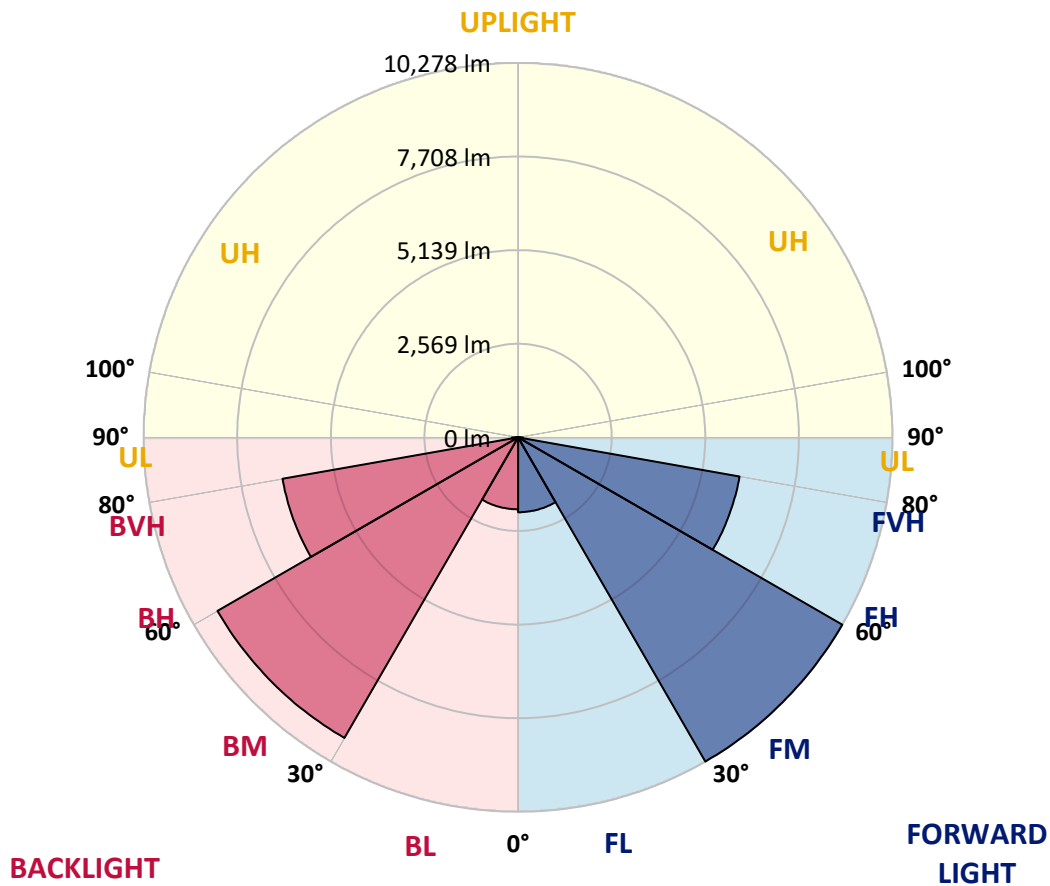
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.1	5.6			
FM (30°-60°)	10277.6	27.9			
FH (60°-80°)	6174.0	16.7			G3/7500
FVH (80°-90°)	133.7	0.4			G2/225
BL (0°-30°)	1976.1	5.4	B3/2500		
BM (30°-60°)	9528.9	25.8	B5		
BH (60°-80°)	6565.7	17.8	B5		G5
BVH (80°-90°)	163.8	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°	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9
2.5°	3656.8	3662.0	3669.7	3685.1	3700.5	3723.6	3746.7	3744.2	3754.4	3762.1	3769.8
5°	3636.3	3641.4	3654.3	3674.8	3697.9	3736.4	3785.2	3805.8	3821.2	3849.4	3875.1
7.5°	3680.0	3690.2	3708.2	3736.4	3772.4	3821.2	3888.0	3923.9	3947.0	3998.4	4042.0
10°	3739.0	3751.9	3787.8	3841.7	3895.7	3970.1	4054.9	4108.8	4124.2	4191.0	4273.2
12.5°	3795.5	3810.9	3870.0	3967.6	4065.2	4165.3	4265.5	4332.2	4337.4	4427.2	4519.7
15°	3885.4	3898.2	3977.8	4103.7	4252.6	4391.3	4514.6	4560.8	4581.3	4645.5	4761.1
17.5°	4083.1	4098.5	4201.3	4337.4	4494.0	4640.4	4763.7	4802.2	4802.2	4856.1	4951.1
20°	4296.3	4311.7	4447.8	4622.4	4812.4	4961.4	5056.4	5020.5	5007.6	5023.0	5089.8
22.5°	4535.1	4563.3	4694.3	4897.2	5130.9	5313.2	5362.0	5254.1	5218.2	5182.2	5197.6
25°	4840.7	4874.1	5002.5	5218.2	5446.7	5639.3	5667.6	5500.7	5480.1	5354.3	5308.1
27.5°	5192.5	5218.2	5377.4	5590.5	5803.7	5965.5	5996.3	5790.9	5721.5	5546.9	5439.0
30°	5647.0	5670.2	5808.8	6019.4	6204.3	6317.3	6355.8	6073.3	6019.4	5752.3	5585.4
32.5°	6142.7	6152.9	6294.2	6497.1	6661.4	6769.3	6715.3	6386.6	6307.0	6006.6	5778.0
35°	6710.2	6710.2	6892.5	7056.9	7187.8	7218.7	7115.9	6741.0	6648.6	6322.4	6037.4
37.5°	7267.5	7282.9	7452.4	7647.5	7763.1	7757.9	7570.5	7159.6	7054.3	6699.9	6384.1
40°	7870.9	7904.3	8073.8	8292.1	8402.5	8387.1	8099.5	7642.4	7534.5	7115.9	6807.8
42.5°	8425.6	8479.6	8677.3	8900.7	9021.4	9011.1	8710.7	8197.1	8091.8	7619.3	7311.1
45°	8867.3	8923.8	9170.3	9481.1	9673.7	9655.7	9352.7	8772.3	8643.9	8148.3	7809.3
47.5°	9255.1	9314.2	9588.9	9917.6	10223.2	10254.0	9976.7	9352.7	9216.6	8715.8	8333.2
50°	9553.0	9581.2	9889.4	10248.9	10603.3	10775.4	10534.0	9935.6	9771.3	9275.6	8844.2
52.5°	9529.9	9568.4	9948.5	10436.4	10911.5	11193.9	11027.0	10485.2	10326.0	9786.7	9365.5
55°	9059.9	9098.4	9550.4	10261.8	11083.5	11499.5	11481.6	11009.0	10893.5	10308.0	9907.4
57.5°	8374.3	8459.0	8908.4	9676.2	10857.5	11743.5	11815.4	11486.7	11366.0	10819.0	10444.1
60°	7146.8	7259.8	7778.5	8774.9	10133.4	11661.3	12172.3	11889.9	11815.4	11294.1	10929.4
62.5°	5192.5	5274.7	5965.5	7272.6	9059.9	11075.8	12472.8	12305.9	12249.4	11720.4	11368.6
65°	3109.9	3297.3	3852.0	5143.7	7308.5	9971.6	12308.5	12850.3	12791.2	12159.5	11743.5
67.5°	1574.2	1658.9	1877.2	2788.9	4915.2	8251.0	11484.1	13189.3	13261.2	12534.4	11877.0
70°	975.8	999.0	1060.6	1376.5	2455.0	5421.1	9391.2	12305.9	12657.7	12475.4	11530.3
72.5°	783.2	788.4	798.6	857.7	1178.7	2534.6	5937.2	9637.7	10272.0	11651.0	11034.7
75°	649.7	652.3	654.8	672.8	734.4	1034.9	2889.0	6622.9	7365.0	9902.2	10230.9
77.5°	521.3	508.5	518.7	526.4	541.8	577.8	996.4	3533.6	4286.0	6499.6	7912.0
80°	339.0	333.8	354.4	362.1	377.5	400.6	531.6	1199.3	1456.1	2365.1	2516.6
82.5°	182.3	172.1	215.7	208.0	215.7	233.7	313.3	439.1	493.1	713.9	603.5
85°	56.5	56.5	59.1	69.3	84.7	82.2	136.1	215.7	238.8	305.6	226.0
87.5°	10.3	10.3	10.3	10.3	10.3	12.8	28.2	43.7	59.1	105.3	79.6
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°	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9	3733.9
2.5°	3785.2	3762.1	3775.0	3782.7	3780.1	3775.0	3749.3	3744.2	3731.3	3710.8	3705.6
5°	3898.2	3872.6	3875.1	3867.4	3841.7	3808.4	3751.9	3723.6	3700.5	3674.8	3672.2
7.5°	4075.4	4047.2	4039.5	4003.5	3931.6	3854.6	3764.7	3713.3	3674.8	3641.4	3636.3
10°	4301.4	4273.2	4247.5	4162.7	4044.6	3941.9	3823.8	3749.3	3692.8	3651.7	3644.0
12.5°	4553.1	4530.0	4465.8	4342.5	4201.3	4080.6	3959.9	3867.4	3785.2	3723.6	3715.9
15°	4833.0	4781.6	4684.0	4524.8	4391.3	4293.7	4147.3	4021.5	3890.5	3808.4	3790.4
17.5°	5028.2	4984.5	4868.9	4714.9	4609.6	4524.8	4352.8	4173.0	3995.8	3875.1	3849.4
20°	5166.8	5120.6	4989.6	4876.6	4843.3	4771.4	4571.1	4363.0	4157.6	4008.7	3975.3
22.5°	5267.0	5218.2	5084.7	5028.2	5074.4	5061.5	4866.4	4630.1	4386.2	4209.0	4167.9
25°	5362.0	5315.8	5197.6	5218.2	5341.5	5380.0	5169.4	4894.6	4617.3	4409.3	4360.5
27.5°	5451.9	5392.8	5338.9	5451.9	5626.5	5698.4	5475.0	5164.3	4863.8	4650.7	4612.1
30°	5590.5	5521.2	5513.5	5677.9	5955.2	6016.8	5770.3	5459.6	5161.7	4946.0	4897.2
32.5°	5765.2	5701.0	5706.1	5952.6	6273.6	6325.0	6114.4	5824.2	5526.3	5310.6	5243.9
35°	6001.4	5921.8	5965.5	6268.5	6592.1	6687.1	6517.6	6276.2	5986.0	5765.2	5690.7
37.5°	6327.6	6212.0	6301.9	6620.3	6946.5	7087.7	6956.7	6777.0	6489.4	6265.9	6196.6
40°	6743.6	6648.6	6684.5	7036.3	7372.7	7542.2	7460.1	7282.9	6997.8	6764.1	6684.5
42.5°	7236.6	7141.6	7128.8	7503.7	7840.1	8096.9	8017.3	7855.5	7560.2	7293.1	7216.1
45°	7719.4	7632.1	7650.1	8032.7	8410.2	8690.1	8610.5	8420.5	8099.5	7791.3	7729.7
47.5°	8222.8	8150.9	8166.3	8572.0	8988.0	9267.9	9167.8	8936.7	8561.7	8233.0	8158.6
50°	8738.9	8656.7	8679.9	9106.1	9555.5	9820.1	9666.0	9324.4	8911.0	8590.0	8525.8
52.5°	9252.5	9154.9	9214.0	9617.2	10082.0	10292.6	10007.5	9594.1	9193.5	8875.0	8803.1
55°	9843.2	9740.4	9676.2	10107.7	10567.3	10654.7	10264.3	9781.5	9306.5	8944.4	8900.7
57.5°	10382.4	10295.1	10174.4	10605.9	10944.8	10880.6	10462.1	9730.2	9031.7	8566.9	8505.2
60°	10865.2	10790.8	10685.5	11052.7	11206.8	11063.0	10302.8	9121.6	8353.7	7868.4	7840.1
62.5°	11309.5	11229.9	11132.3	11445.6	11425.1	11091.2	9578.7	8186.8	7159.6	6638.3	6592.1
65°	11661.3	11589.4	11561.2	11807.7	11774.3	10539.1	8451.3	6656.3	5231.0	4643.0	4625.0
67.5°	11761.5	11733.2	11884.7	12303.3	11782.0	9429.7	6628.0	4414.4	2809.4	2252.1	2218.8
70°	11386.5	11384.0	11818.0	12416.3	10713.7	7203.3	3911.1	1990.2	1412.4	1253.2	1232.6
72.5°	10898.6	10890.9	11235.0	10711.2	7945.4	3941.9	1646.1	1065.7	883.4	839.7	839.7
75°	10097.4	10076.9	10336.2	8148.3	4468.3	1484.3	873.1	731.9	693.4	685.7	685.7
77.5°	8230.5	8058.4	7650.1	5035.9	1558.8	729.3	577.8	575.2	552.1	549.6	549.6
80°	2706.7	2706.7	3145.8	1920.9	688.2	449.4	408.3	428.9	405.7	390.3	387.8
82.5°	441.7	608.6	865.4	549.6	372.4	279.9	251.7	267.1	279.9	223.4	223.4
85°	174.6	228.6	333.8	256.8	172.1	113.0	120.7	133.5	118.1	102.7	100.2
87.5°	66.8	82.2	118.1	61.6	36.0	20.5	12.8	12.8	10.3	10.3	10.3
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)