

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: P640522

Luminaire Tested: GWS-SA5E-722-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640522
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-SA5E-722-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27601.7 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

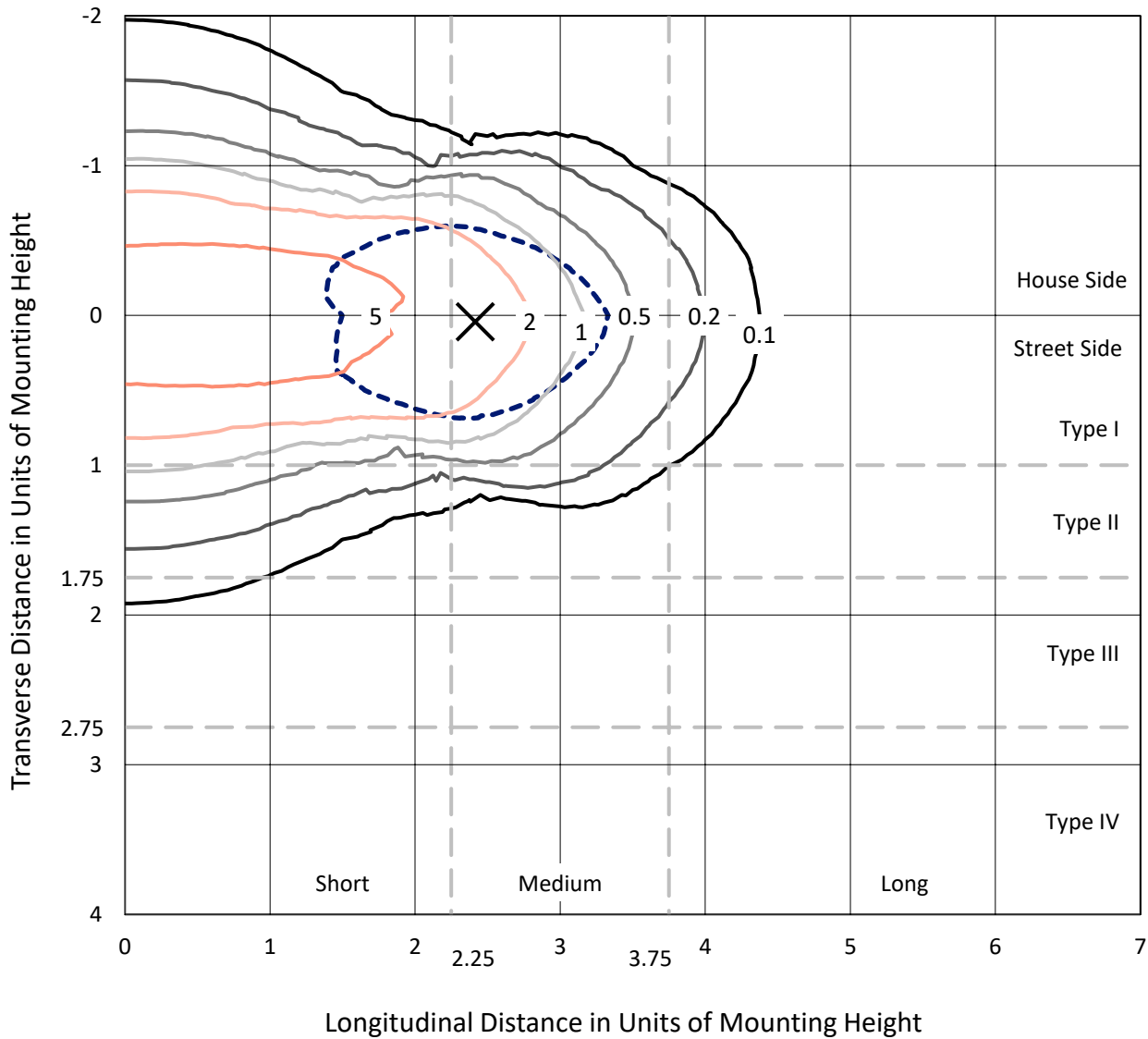
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

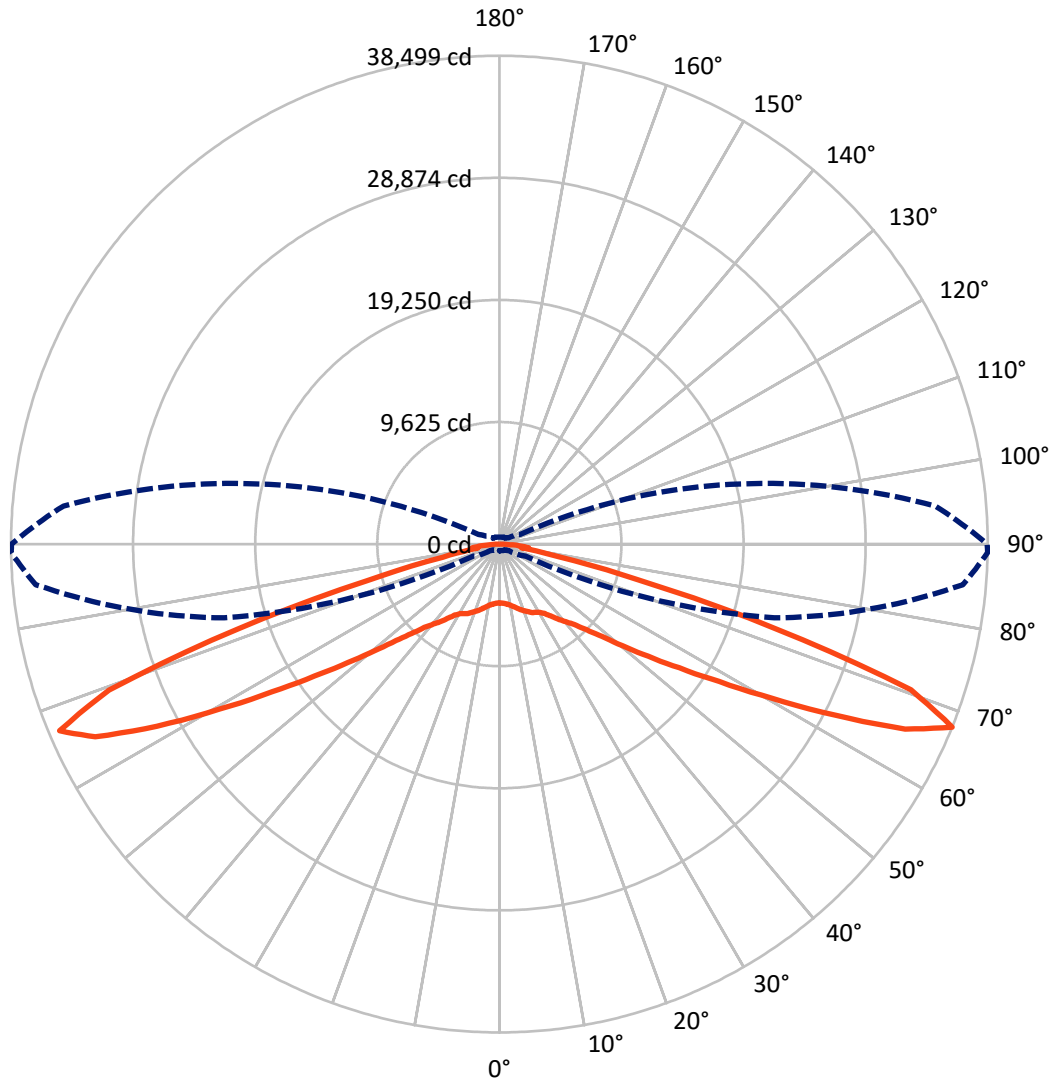
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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
House Side	Lumens	13679.9	0.0	13679.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	13921.8	0.0	13921.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	27601.7	0.0	27601.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.7	1.7
10°-20°	1513.1	5.5
20°-30°	2557.9	9.3
30°-40°	3510.3	12.7
40°-50°	4476.5	16.2
50°-60°	5616.4	20.3
60°-70°	6773.9	24.5
70°-80°	2450.6	8.9
80°-90°	238.3	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°	27601.7	100.0
0°-180°	27601.7	100.0

Coefficient of Utilization



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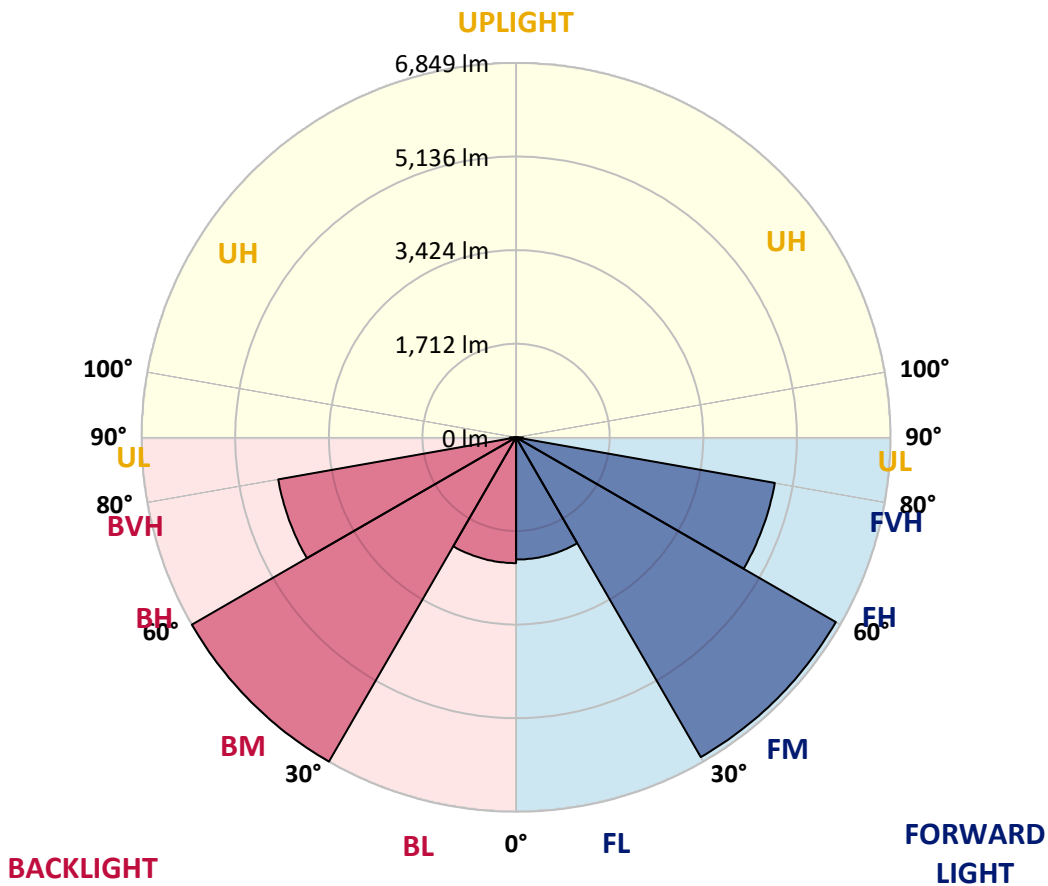
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2235.5	8.1			
FM (30°-60°)	6754.7	24.5			
FH (60°-80°)	4805.9	17.4			G2/5000
FVH (80°-90°)	125.8	0.5			G2/225
BL (0°-30°)	2300.2	8.3	B3/2500		
BM (30°-60°)	6848.6	24.8	B4/8500		
BH (60°-80°)	4418.6	16.0	B4/5000		G4/5000
BVH (80°-90°)	112.6	0.4			G2/225
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°	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7
2.5°	4646.6	4642.6	4632.7	4662.5	4656.5	4658.5	4670.4	4662.5	4648.6	4624.8	4658.5
5°	4777.4	4775.5	4753.6	4771.5	4751.7	4737.8	4735.8	4716.0	4700.1	4674.4	4710.0
7.5°	4904.3	4902.3	4884.5	4916.2	4900.3	4884.5	4866.6	4827.0	4789.3	4751.7	4791.3
10°	5001.4	4999.5	4995.5	5041.1	5045.0	5051.0	5043.1	4975.7	4910.3	4864.7	4904.3
12.5°	5056.9	5062.9	5072.8	5156.1	5197.7	5237.3	5247.2	5191.7	5082.7	5017.3	5064.9
15°	5019.3	5031.2	5080.7	5231.4	5346.4	5435.6	5473.2	5427.6	5286.9	5177.9	5231.4
17.5°	4838.9	4848.8	4945.9	5175.9	5429.6	5635.8	5697.2	5669.5	5512.9	5380.1	5431.6
20°	4589.1	4610.9	4716.0	5037.1	5415.7	5774.5	5939.1	5929.2	5758.7	5554.5	5616.0
22.5°	4363.1	4388.9	4499.9	4854.7	5322.6	5810.2	6182.9	6208.7	5982.7	5729.0	5778.5
25°	4109.4	4133.2	4275.9	4638.7	5162.0	5782.5	6391.1	6508.0	6236.4	5929.2	5974.8
27.5°	3849.7	3867.5	4008.3	4394.8	4951.9	5730.9	6555.6	6837.1	6486.2	6067.9	6099.7
30°	3621.7	3645.5	3774.4	4151.0	4721.9	5627.9	6690.4	7188.0	6773.6	6224.5	6250.3
32.5°	3401.7	3421.5	3562.3	3911.2	4478.1	5469.3	6811.3	7600.3	7199.9	6515.9	6515.9
35°	3124.2	3159.8	3318.4	3681.2	4248.1	5259.1	6898.5	8080.0	7782.7	6946.1	6948.1
37.5°	2868.4	2888.3	3054.8	3421.5	4006.3	5021.3	6906.5	8577.6	8520.1	7493.2	7497.2
40°	2577.0	2602.8	2781.2	3144.0	3728.8	4771.5	6831.1	9041.4	9293.2	8056.2	8034.4
42.5°	2281.7	2319.3	2489.8	2844.7	3429.4	4466.2	6630.9	9483.5	10274.5	8708.4	8654.9
45°	1996.2	2020.0	2190.5	2525.5	3086.5	4101.5	6309.8	9907.7	11440.1	9699.6	9622.3
47.5°	1675.1	1685.0	1861.4	2182.6	2731.7	3695.1	5849.9	10286.3	12720.7	11011.9	10879.1
50°	1389.6	1403.5	1542.3	1817.8	2297.5	3213.4	5277.0	10508.4	14352.1	12801.9	12572.0
52.5°	1124.0	1137.9	1248.9	1468.9	1899.1	2664.3	4567.3	10456.8	16007.4	15024.1	14689.1
55°	907.9	917.8	993.2	1165.6	1494.7	2119.1	3728.8	9994.9	17845.0	17926.3	17204.7
57.5°	767.2	771.1	822.7	927.7	1167.6	1633.4	2878.4	8904.7	19771.8	21629.3	20443.8
60°	685.9	687.9	711.7	777.1	921.8	1246.9	2109.2	7168.1	21768.0	26262.0	24636.5
62.5°	634.3	634.3	654.2	691.8	765.2	959.5	1550.2	5148.1	23201.3	31303.1	29687.5
65°	584.8	584.8	598.7	630.4	670.0	783.0	1163.6	3320.4	23905.0	35517.5	35158.7
67.5°	521.4	523.3	533.2	566.9	602.6	654.2	882.1	2246.0	22444.0	36683.2	38499.0
70°	461.9	463.9	477.7	499.5	529.3	565.0	689.9	1548.2	16336.4	30551.8	34423.3
72.5°	396.5	404.4	414.3	438.1	455.9	481.7	563.0	1003.1	9505.3	19652.9	22755.3
75°	325.1	335.0	346.9	370.7	382.6	392.5	463.9	715.6	4573.3	9959.3	11341.0
77.5°	251.8	261.7	275.5	297.4	305.3	317.2	354.8	517.4	2190.5	4414.7	4759.6
80°	168.5	172.5	184.4	210.1	224.0	231.9	261.7	352.9	951.5	1772.2	1756.4
82.5°	103.1	105.1	109.0	124.9	130.8	138.8	170.5	216.1	454.0	2014.1	2309.4
85°	37.7	35.7	33.7	43.6	51.5	59.5	79.3	109.0	198.2	1383.7	1548.2
87.5°	0.0	0.0	0.0	2.0	4.0	4.0	7.9	15.9	47.6	517.4	354.8
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°	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7
2.5°	4648.6	4626.8	4654.5	4674.4	4718.0	4733.8	4737.8	4723.9	4723.9	4700.1	4704.1
5°	4702.1	4688.2	4733.8	4767.5	4831.0	4854.7	4870.6	4860.7	4866.6	4850.8	4854.7
7.5°	4783.4	4771.5	4850.8	4916.2	4981.6	5009.4	5023.2	5015.3	5017.3	4997.5	5003.4
10°	4896.4	4900.3	4995.5	5080.7	5168.0	5195.7	5201.7	5177.9	5158.0	5122.4	5124.3
12.5°	5051.0	5070.8	5205.6	5300.8	5390.0	5429.6	5386.0	5298.8	5217.5	5156.1	5148.1
15°	5219.5	5255.2	5449.4	5570.4	5667.5	5647.7	5518.8	5322.6	5162.0	5070.8	5053.0
17.5°	5421.7	5475.2	5719.0	5863.8	5947.0	5820.1	5550.5	5257.2	5033.2	4910.3	4886.5
20°	5612.0	5697.2	6004.5	6192.8	6202.7	5917.3	5536.7	5124.3	4842.9	4692.2	4660.5
22.5°	5786.4	5895.5	6303.8	6543.7	6414.8	5960.9	5451.4	4936.0	4612.9	4436.5	4408.7
25°	5976.7	6131.4	6652.7	6876.7	6627.0	5943.0	5273.0	4702.1	4335.4	4155.0	4135.2
27.5°	6107.6	6301.9	7003.6	7217.7	6801.4	5841.9	5043.1	4446.4	4081.6	3911.2	3883.4
30°	6258.2	6506.0	7390.2	7588.4	6908.4	5693.3	4797.3	4208.5	3845.7	3661.4	3641.6
32.5°	6531.8	6843.0	7869.9	7980.9	6942.1	5508.9	4561.4	3978.6	3599.9	3415.6	3387.8
35°	6971.9	7336.6	8543.9	8419.0	6916.4	5306.7	4337.4	3709.0	3348.2	3175.7	3148.0
37.5°	7526.9	7980.9	9295.2	8813.5	6845.0	5084.7	4071.7	3483.0	3122.2	2947.7	2931.9
40°	8044.3	8603.3	10137.7	9154.4	6700.3	4811.1	3816.0	3247.1	2878.4	2694.0	2658.3
42.5°	8692.6	9435.9	11113.0	9449.8	6462.4	4484.0	3528.6	2955.7	2573.1	2406.6	2362.9
45°	9677.8	10601.5	12246.9	9733.3	6107.6	4081.6	3167.8	2600.8	2238.1	2067.6	2033.9
47.5°	10906.8	12058.6	13475.9	9901.8	5568.4	3657.4	2759.4	2226.2	1863.4	1671.1	1655.3
50°	12633.4	14177.7	14794.2	9872.0	4965.8	3153.9	2299.5	1780.1	1476.8	1338.1	1316.3
52.5°	14736.7	16838.0	16219.5	9515.2	4325.5	2581.0	1792.0	1397.5	1171.6	1072.4	1054.6
55°	17375.2	20023.6	17720.1	8750.0	3516.7	1976.4	1407.5	1102.2	947.6	888.1	880.2
57.5°	20642.1	24148.8	19165.2	7461.5	2644.4	1508.6	1084.3	909.9	836.5	800.9	798.9
60°	24953.7	28527.8	20420.1	5798.3	1893.1	1153.7	896.0	812.8	755.3	731.5	729.5
62.5°	30080.0	32504.4	21201.1	3948.8	1423.3	919.8	789.0	737.4	703.7	689.9	687.9
65°	35349.0	35018.0	20828.4	2587.0	1080.4	781.0	707.7	679.9	650.2	636.3	636.3
67.5°	38461.3	34486.7	17967.9	1796.0	856.4	685.9	638.3	612.5	563.0	551.1	551.1
70°	34066.5	27945.0	11777.1	1314.3	693.8	600.6	555.1	519.4	499.5	487.7	485.7
72.5°	22531.2	18184.0	6262.2	911.9	578.8	511.4	469.8	455.9	432.1	420.3	418.3
75°	11214.1	9550.9	3209.4	658.1	481.7	410.3	392.5	386.6	366.7	350.9	346.9
77.5°	4674.4	4252.1	1496.7	477.7	366.7	331.1	315.2	315.2	293.4	275.5	267.6
80°	1762.3	1570.0	707.7	327.1	271.6	245.8	235.9	228.0	210.1	188.3	176.4
82.5°	2357.0	1540.3	346.9	204.2	178.4	158.6	144.7	138.8	128.9	118.9	111.0
85°	1526.4	1094.3	156.6	105.1	89.2	67.4	59.5	55.5	49.6	43.6	39.6
87.5°	311.2	366.7	47.6	19.8	11.9	5.9	5.9	2.0	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)