

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: P638467

Luminaire Tested: GWS-SA4E-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638467
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-SA4E-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21430.5 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

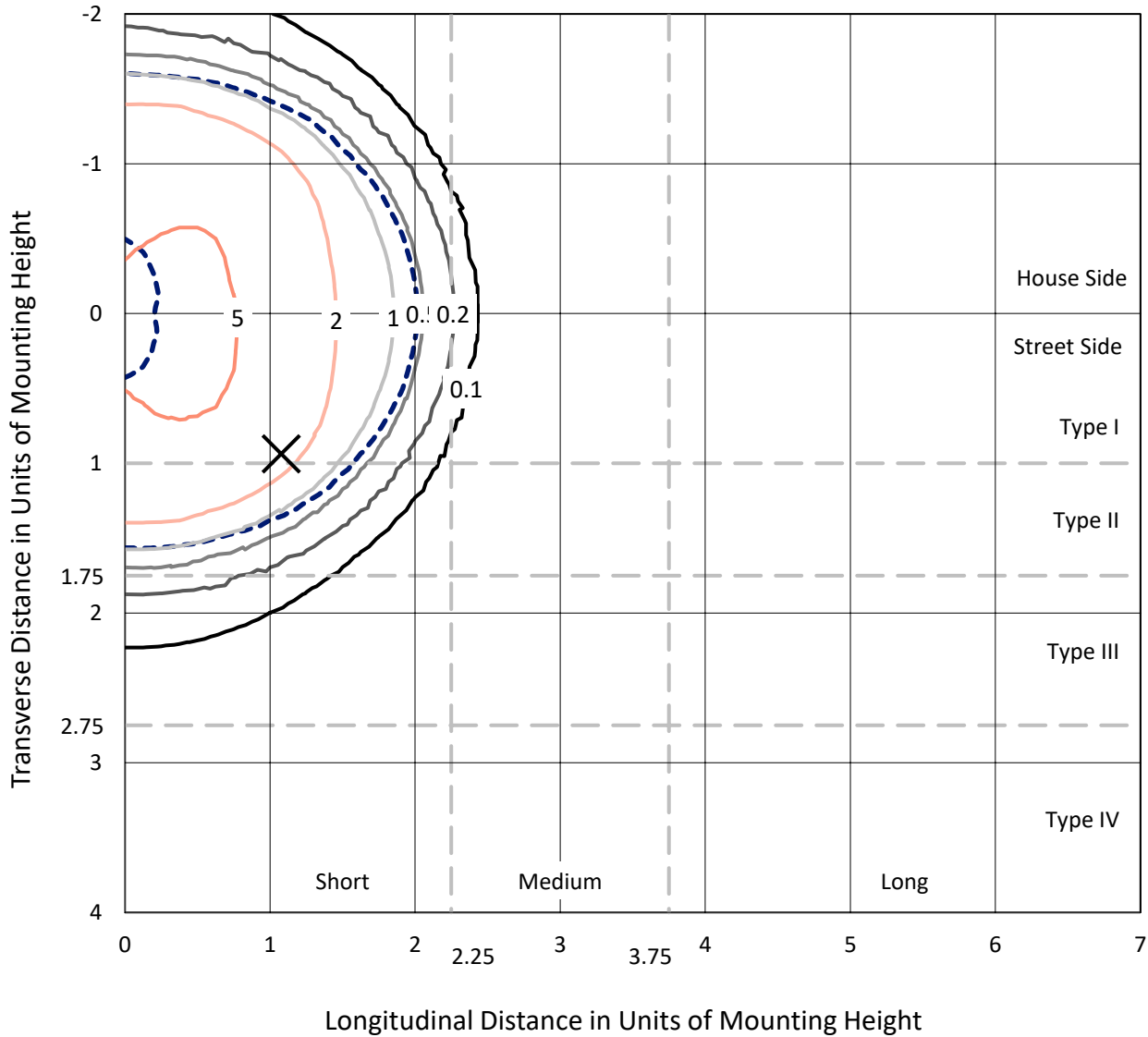
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

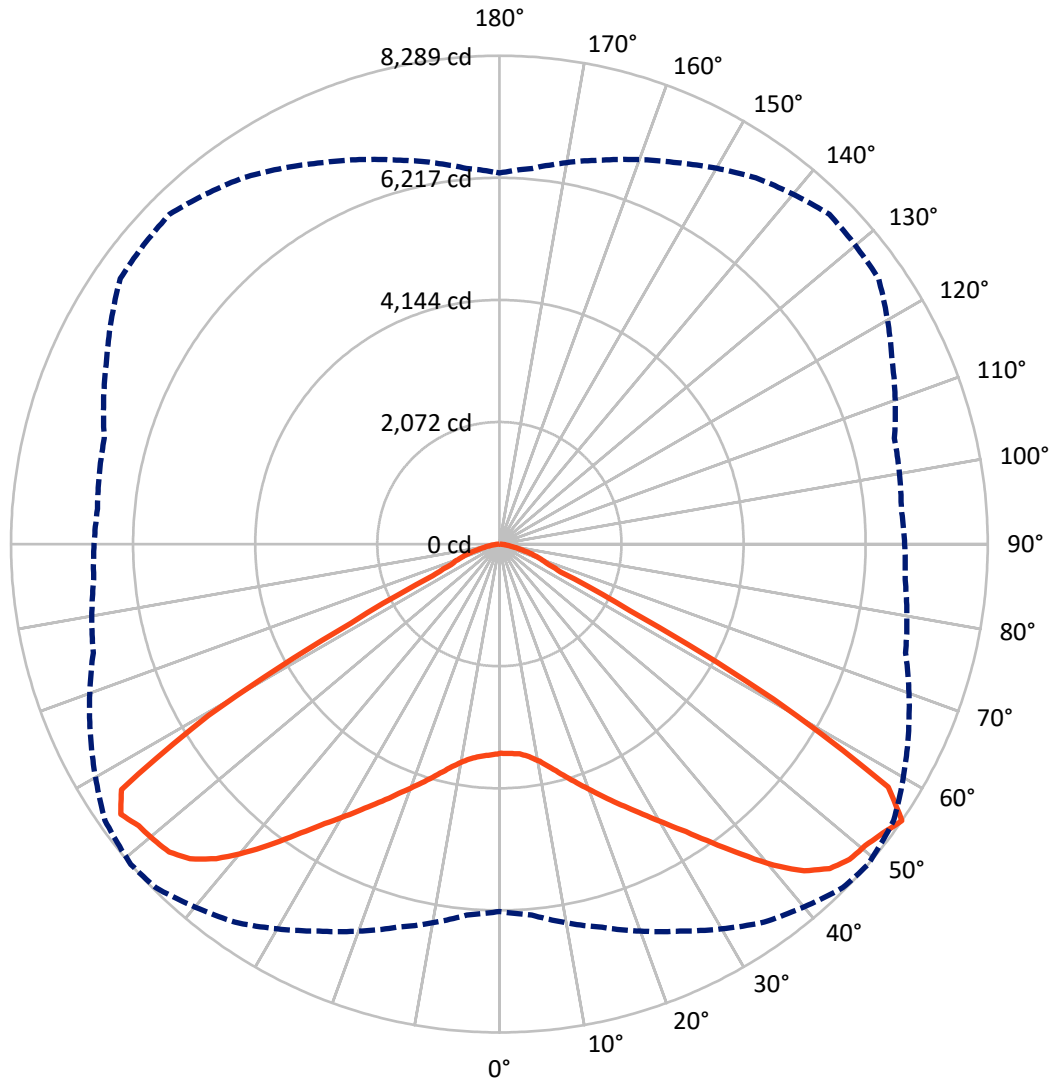
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	10610.1	0.0	10610.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	10820.4	0.0	10820.4
	% Fixture	50.5	0.0	50.5
Total	Lumens	21430.5	0.0	21430.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.3	1.6
10°-20°	1142.3	5.3
20°-30°	2175.7	10.2
30°-40°	3688.3	17.2
40°-50°	5550.7	25.9
50°-60°	6075.7	28.4
60°-70°	1921.2	9.0
70°-80°	461.1	2.2
80°-90°	69.2	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°	21430.5	100.0
0°-180°	21430.5	100.0

Coefficient of Utilization



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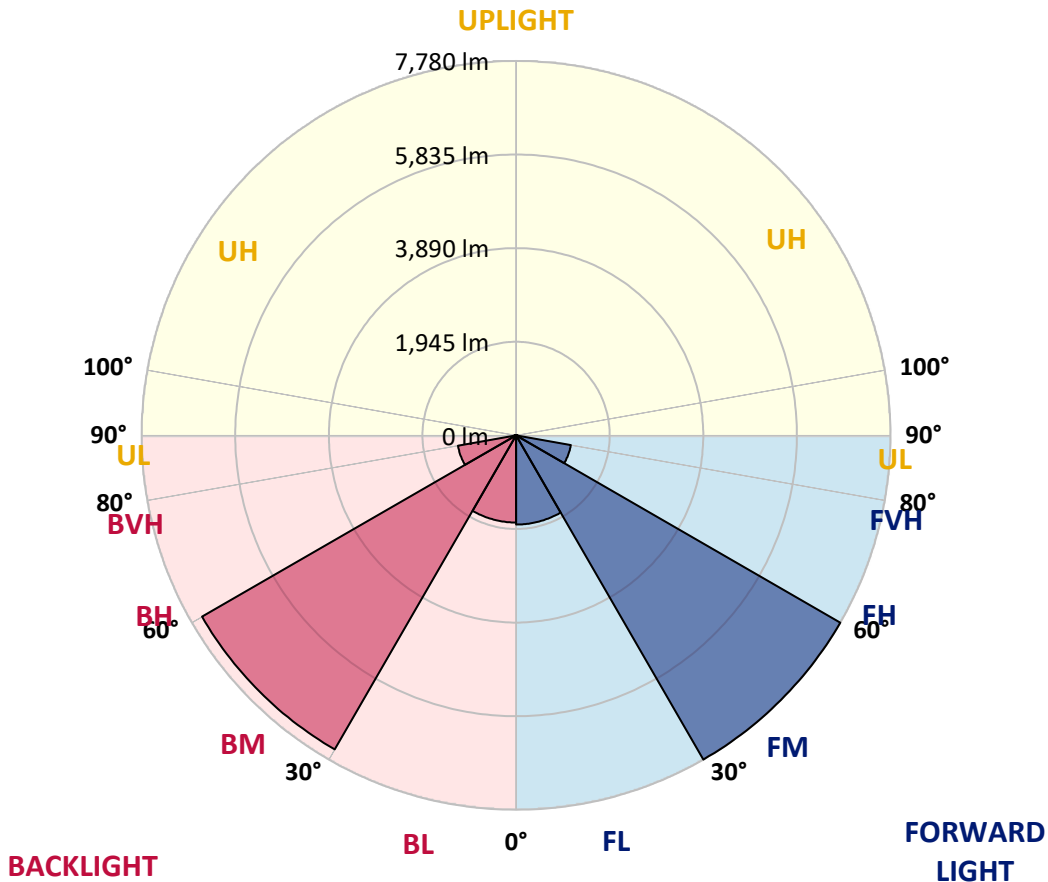
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1852.9	8.6			
FM (30°-60°)	7779.9	36.3			
FH (60°-80°)	1155.6	5.4			G1/1800
FVH (80°-90°)	32.0	0.1			G1/100
BL (0°-30°)	1811.5	8.5	B3/2500		
BM (30°-60°)	7534.9	35.2	B4/8500		
BH (60°-80°)	1226.7	5.7	B3/2500		G1/1800
BVH (80°-90°)	37.2	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°	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1
2.5°	3497.8	3501.3	3508.3	3520.5	3532.7	3550.1	3557.1	3565.8	3564.0	3574.5	3574.5
5°	3480.4	3485.6	3496.1	3513.5	3534.4	3567.5	3576.2	3597.1	3618.1	3644.2	3652.9
7.5°	3501.3	3508.3	3520.5	3548.3	3579.7	3623.3	3640.7	3675.6	3715.7	3762.7	3781.9
10°	3541.4	3550.1	3571.0	3616.3	3666.9	3733.1	3748.8	3792.3	3856.8	3921.3	3959.7
12.5°	3586.7	3600.6	3639.0	3710.4	3785.4	3872.5	3896.9	3950.9	4020.6	4104.3	4156.6
15°	3639.0	3651.2	3710.4	3811.5	3928.3	4043.3	4071.2	4123.5	4201.9	4283.8	4357.0
17.5°	3748.8	3769.7	3839.4	3956.2	4092.1	4228.0	4259.4	4318.7	4381.4	4445.9	4515.6
20°	3898.7	3916.1	4005.0	4149.6	4310.0	4433.7	4465.1	4517.3	4547.0	4580.1	4639.3
22.5°	4048.5	4072.9	4174.0	4344.8	4533.0	4667.2	4691.6	4740.4	4719.5	4709.1	4747.4
25°	4235.0	4268.1	4367.5	4553.9	4745.7	4911.2	4930.4	4972.2	4937.4	4883.3	4881.6
27.5°	4466.8	4496.4	4599.3	4791.0	4980.9	5153.5	5190.1	5245.8	5169.2	5102.9	5055.9
30°	4742.2	4761.3	4874.6	5078.5	5273.7	5437.5	5484.6	5540.4	5482.9	5373.1	5326.0
32.5°	5062.8	5089.0	5219.7	5434.1	5608.3	5772.2	5819.2	5888.9	5826.2	5702.5	5643.2
35°	5448.0	5474.1	5611.8	5845.4	6023.1	6192.2	6225.3	6282.8	6204.4	6061.5	6014.4
37.5°	5866.3	5899.4	6073.7	6295.0	6481.5	6678.4	6680.2	6697.6	6586.1	6408.3	6356.0
40°	6336.8	6380.4	6554.7	6784.7	7009.6	7169.9	7168.2	7119.4	6931.1	6655.8	6575.6
42.5°	6802.2	6837.0	7013.0	7250.1	7474.9	7626.5	7581.2	7462.7	7190.8	6816.1	6709.8
45°	7138.5	7164.7	7349.4	7616.1	7844.4	7938.5	7856.6	7713.7	7345.9	6917.2	6760.3
47.5°	7297.1	7332.0	7518.5	7783.4	8041.3	8095.3	7997.7	7863.5	7436.5	7011.3	6800.4
50°	7211.7	7257.0	7467.9	7713.7	8004.7	8116.2	8046.5	7912.3	7532.4	7103.7	6871.9
52.5°	6990.4	7034.0	7300.6	7598.6	7928.0	8149.4	8147.6	8037.8	7642.2	7129.8	6875.4
55°	6234.0	6319.4	6734.2	7248.3	7833.9	8246.9	8288.8	8172.0	7659.6	7136.8	6912.0
57.5°	4057.2	4207.1	4601.0	5270.2	6444.9	7501.0	7783.4	7811.2	7534.1	7107.2	6918.9
60°	1694.0	1814.3	2126.2	2570.6	3541.4	4797.9	5345.2	5894.2	6556.4	6796.9	6854.4
62.5°	1052.7	1063.1	1094.5	1195.6	1519.7	2133.2	2485.2	2999.4	3984.1	4822.3	5209.2
65°	949.8	955.1	962.0	955.1	970.7	1045.7	1139.8	1319.3	1720.1	2136.7	2631.6
67.5°	836.5	843.5	848.7	843.5	848.7	852.2	862.7	878.4	951.6	1010.8	1056.1
70°	676.2	686.7	695.4	691.9	712.8	712.8	723.3	735.5	772.1	815.6	847.0
72.5°	515.9	507.2	517.6	521.1	540.3	550.7	566.4	580.4	622.2	648.3	688.4
75°	334.6	325.9	341.6	350.3	376.4	390.4	404.3	418.3	447.9	465.3	503.7
77.5°	181.3	179.5	195.2	207.4	235.3	252.7	263.2	273.6	298.0	303.2	327.6
80°	104.6	104.6	115.0	123.7	141.2	160.3	170.8	179.5	196.9	202.2	212.6
82.5°	57.5	57.5	62.7	68.0	81.9	92.4	101.1	108.1	123.7	129.0	134.2
85°	27.9	26.1	29.6	33.1	38.3	43.6	48.8	52.3	64.5	68.0	74.9
87.5°	3.5	3.5	3.5	5.2	7.0	10.5	12.2	12.2	19.2	22.7	26.1
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°	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1	3550.1
2.5°	3584.9	3562.3	3576.2	3581.5	3581.5	3576.2	3553.6	3546.6	3536.1	3520.5	3520.5
5°	3665.1	3647.7	3651.2	3642.5	3621.5	3595.4	3553.6	3532.7	3515.2	3496.1	3494.3
7.5°	3802.8	3780.1	3776.7	3743.5	3687.8	3632.0	3569.3	3530.9	3504.8	3480.4	3478.6
10°	3982.3	3961.4	3935.3	3869.0	3787.1	3705.2	3619.8	3567.5	3529.2	3494.3	3492.6
12.5°	4182.7	4158.3	4109.5	4011.9	3909.1	3828.9	3731.3	3651.2	3593.7	3546.6	3537.9
15°	4400.6	4365.7	4282.1	4167.0	4066.0	3980.6	3876.0	3761.0	3673.8	3598.9	3590.2
17.5°	4567.9	4522.6	4432.0	4323.9	4240.2	4154.8	4018.9	3874.3	3748.8	3654.7	3640.7
20°	4682.9	4646.3	4543.5	4463.3	4414.5	4339.6	4181.0	4017.2	3876.0	3757.5	3750.5
22.5°	4789.2	4745.7	4644.6	4597.5	4597.5	4547.0	4395.4	4201.9	4036.3	3898.7	3881.2
25°	4909.5	4862.4	4785.7	4780.5	4804.9	4782.3	4599.3	4391.9	4198.4	4043.3	4015.4
27.5°	5076.8	5024.5	4979.2	5010.6	5045.4	5021.0	4817.1	4576.6	4372.7	4215.8	4191.4
30°	5343.4	5279.0	5237.1	5275.5	5343.4	5272.0	5050.6	4796.2	4590.5	4418.0	4405.8
32.5°	5653.7	5580.5	5536.9	5597.9	5658.9	5547.3	5327.8	5083.8	4867.7	4686.4	4665.5
35°	6026.6	5934.2	5869.8	5951.7	6014.4	5904.6	5686.8	5455.0	5214.5	5026.2	4998.4
37.5°	6357.7	6246.2	6202.6	6317.7	6401.3	6329.9	6092.8	5875.0	5611.8	5406.2	5394.0
40°	6598.3	6488.5	6457.1	6647.1	6793.5	6776.0	6563.4	6314.2	6066.7	5829.7	5807.0
42.5°	6702.8	6626.1	6633.1	6889.3	7115.9	7227.4	7037.4	6770.8	6532.0	6286.3	6270.6
45°	6725.5	6678.4	6734.2	7054.9	7352.9	7581.2	7419.1	7196.0	6925.9	6688.9	6681.9
47.5°	6749.9	6723.7	6809.1	7149.0	7502.8	7767.7	7677.1	7447.0	7173.4	6941.6	6924.2
50°	6807.4	6796.9	6892.8	7215.2	7574.2	7818.2	7715.4	7487.1	7206.5	6978.2	6936.4
52.5°	6824.8	6807.4	6945.1	7318.0	7692.7	7816.5	7595.1	7297.1	7014.8	6760.3	6716.8
55°	6878.8	6847.5	6941.6	7356.4	7856.6	7917.6	7588.2	7142.0	6748.1	6401.3	6298.5
57.5°	6892.8	6857.9	6918.9	7293.6	7678.8	7624.8	6669.7	5763.5	5021.0	4635.9	4679.4
60°	6817.9	6828.3	6723.7	6681.9	6159.1	5437.5	4083.4	3264.3	2563.7	2267.4	2331.9
62.5°	5190.1	5233.6	4876.4	4240.2	3260.8	2584.6	1709.7	1328.0	1124.1	1071.8	1080.5
65°	2619.4	2678.7	2307.5	1908.4	1418.6	1146.8	991.7	960.3	949.8	937.6	937.6
67.5°	1037.0	1054.4	1040.5	974.2	906.3	881.9	874.9	871.4	859.2	852.2	854.0
70°	833.1	847.0	826.1	784.3	756.4	754.6	751.1	744.2	735.5	735.5	740.7
72.5°	679.7	693.6	664.0	637.9	617.0	601.3	592.6	587.3	575.1	575.1	580.4
75°	500.2	508.9	484.5	481.0	458.4	442.7	428.7	421.8	406.1	399.1	404.3
77.5°	332.9	331.1	318.9	318.9	310.2	291.0	275.4	259.7	238.8	224.8	228.3
80°	216.1	216.1	210.9	210.9	202.2	186.5	167.3	151.6	139.4	129.0	129.0
82.5°	137.7	135.9	134.2	132.5	129.0	113.3	99.3	88.9	80.2	73.2	74.9
85°	76.7	76.7	73.2	73.2	66.2	57.5	50.5	43.6	38.3	36.6	36.6
87.5°	26.1	26.1	24.4	24.4	20.9	15.7	12.2	10.5	8.7	7.0	8.7
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)