

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: P637807

Luminaire Tested: GWS-SA4D-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637807
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22082.6 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

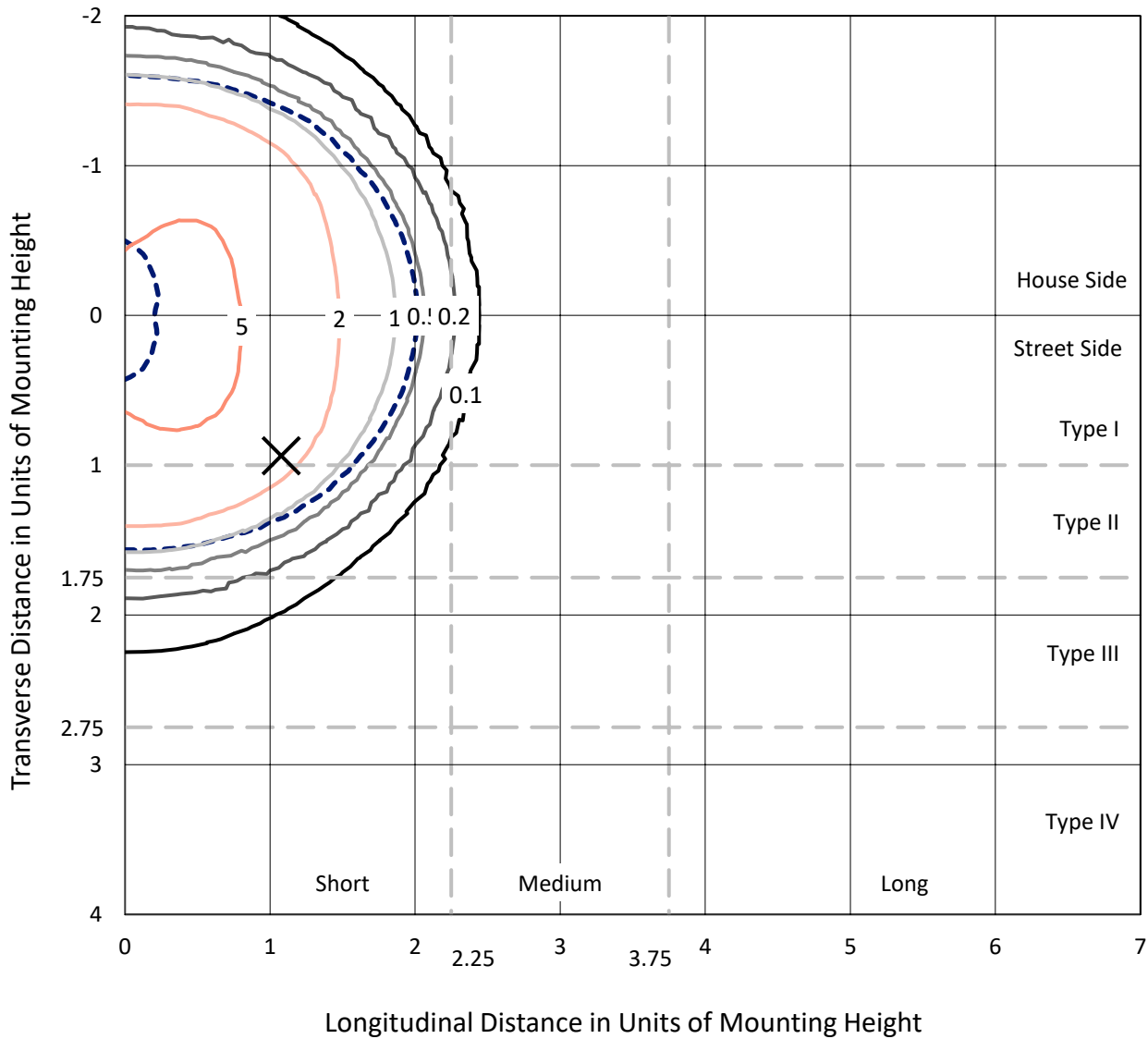
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

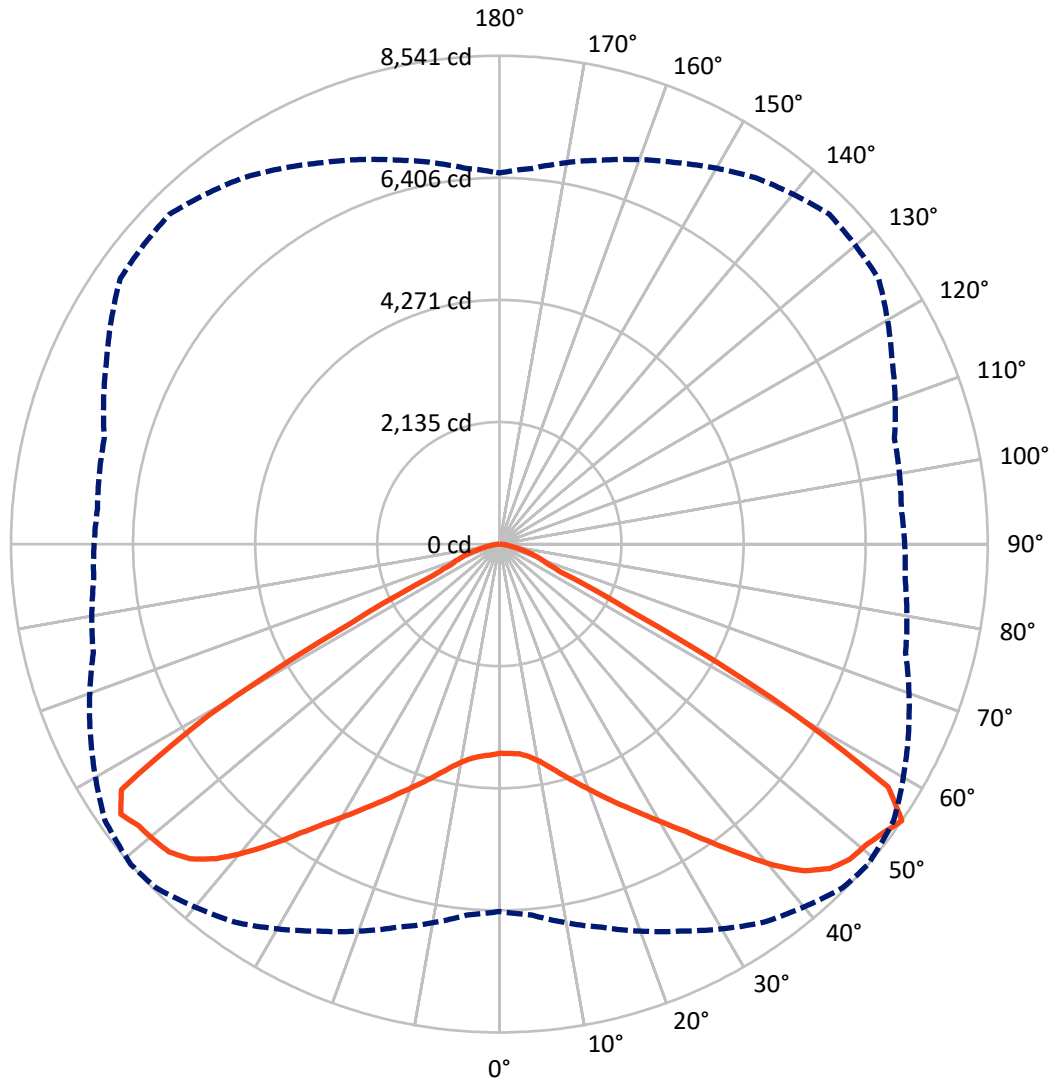
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	10933.0	0.0	10933.0
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	11149.6	0.0	11149.6
	% Fixture	50.5	0.0	50.5
Total	Lumens	22082.6	0.0	22082.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.8	1.6
10°-20°	1177.1	5.3
20°-30°	2241.9	10.2
30°-40°	3800.6	17.2
40°-50°	5719.6	25.9
50°-60°	6260.6	28.4
60°-70°	1979.6	9.0
70°-80°	475.1	2.2
80°-90°	71.3	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°	22082.6	100.0
0°-180°	22082.6	100.0

Coefficient of Utilization



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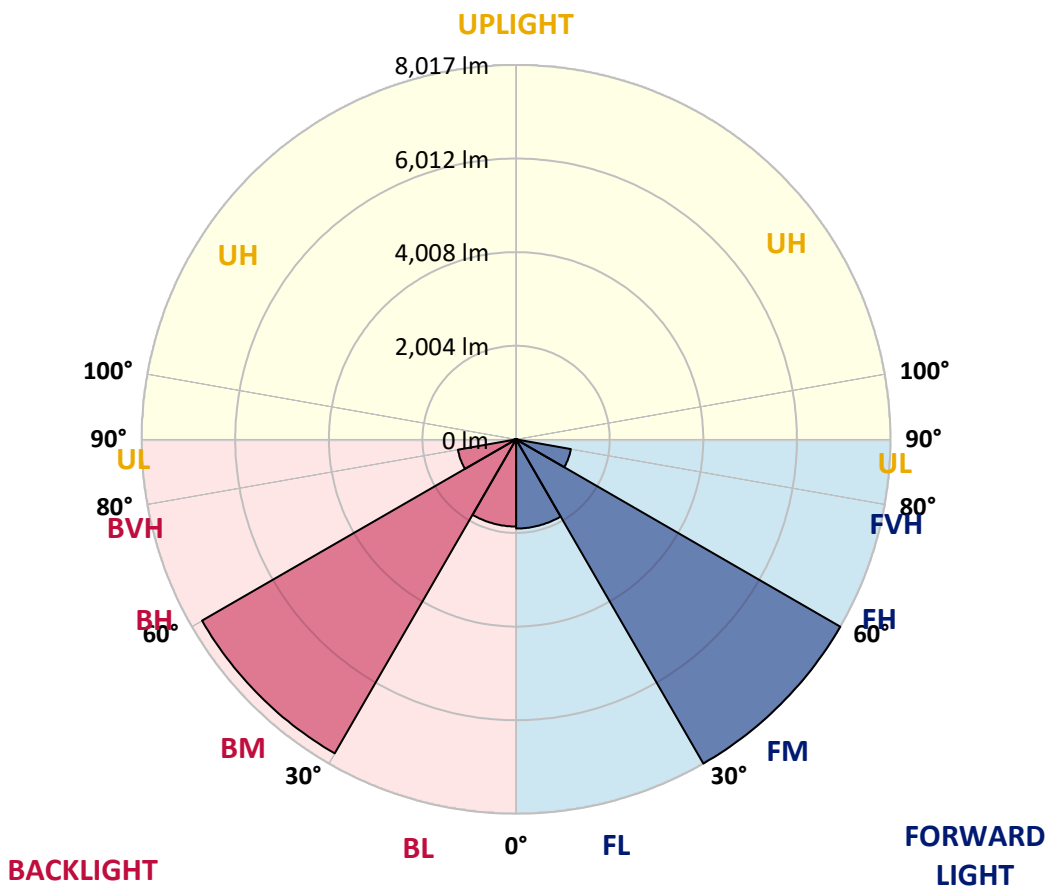
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1909.2	8.6			
FM (30°-60°)	8016.6	36.3			
FH (60°-80°)	1190.8	5.4			G1/1800
FVH (80°-90°)	33.0	0.1			G1/100
BL (0°-30°)	1866.6	8.5	B3/2500		
BM (30°-60°)	7764.1	35.2	B4/8500		
BH (60°-80°)	1264.0	5.7	B3/2500		G1/1800
BVH (80°-90°)	38.3	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°	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1
2.5°	3604.2	3607.8	3615.0	3627.6	3640.2	3658.1	3665.3	3674.3	3672.5	3683.3	3683.3
5°	3586.3	3591.7	3602.4	3620.4	3642.0	3676.1	3685.1	3706.6	3728.2	3755.1	3764.1
7.5°	3607.8	3615.0	3627.6	3656.3	3688.6	3733.5	3751.5	3787.4	3828.7	3877.2	3897.0
10°	3649.1	3658.1	3679.7	3726.4	3778.4	3846.7	3862.8	3907.7	3974.2	4040.6	4080.1
12.5°	3695.8	3710.2	3749.7	3823.3	3900.6	3990.3	4015.5	4071.2	4143.0	4229.2	4283.1
15°	3749.7	3762.3	3823.3	3927.5	4047.8	4166.3	4195.1	4248.9	4329.8	4414.2	4489.6
17.5°	3862.8	3884.4	3956.2	4076.5	4216.6	4356.7	4389.0	4450.1	4514.7	4581.2	4653.0
20°	4017.3	4035.2	4126.8	4275.9	4441.1	4568.6	4600.9	4654.8	4685.3	4719.5	4780.5
22.5°	4171.7	4196.9	4301.0	4477.0	4671.0	4809.2	4834.4	4884.7	4863.1	4852.3	4891.9
25°	4363.9	4398.0	4500.4	4692.5	4890.1	5060.7	5080.4	5123.5	5087.6	5031.9	5030.1
27.5°	4602.7	4633.3	4739.2	4936.8	5132.5	5310.3	5348.0	5405.5	5326.4	5258.2	5209.7
30°	4886.5	4906.2	5023.0	5233.1	5434.2	5603.0	5651.5	5709.0	5649.7	5536.6	5488.1
32.5°	5216.9	5243.8	5378.5	5599.4	5779.0	5947.8	5996.3	6068.1	6003.5	5876.0	5814.9
35°	5613.8	5640.7	5782.6	6023.2	6206.4	6380.6	6414.7	6474.0	6393.2	6245.9	6197.4
37.5°	6044.8	6078.9	6258.5	6486.6	6678.7	6881.6	6883.4	6901.4	6786.5	6603.3	6549.4
40°	6529.7	6574.6	6754.1	6991.2	7222.8	7388.1	7386.3	7336.0	7142.0	6858.3	6775.7
42.5°	7009.1	7045.1	7226.4	7470.7	7702.3	7858.6	7811.9	7689.8	7409.6	7023.5	6914.0
45°	7355.7	7382.7	7573.0	7847.8	8083.1	8180.0	8095.6	7948.4	7569.4	7127.7	6966.0
47.5°	7519.2	7555.1	7747.2	8020.2	8286.0	8341.7	8241.1	8102.8	7662.8	7224.6	7007.3
50°	7431.2	7477.9	7695.2	7948.4	8248.3	8363.2	8291.4	8153.1	7761.6	7319.8	7081.0
52.5°	7203.1	7248.0	7522.8	7829.8	8169.3	8397.3	8395.5	8282.4	7874.7	7346.8	7084.6
55°	6423.7	6511.7	6939.1	7468.9	8072.3	8497.9	8541.0	8420.7	7892.7	7353.9	7122.3
57.5°	4180.7	4335.1	4741.0	5430.6	6641.0	7729.3	8020.2	8048.9	7763.4	7323.4	7129.5
60°	1745.6	1869.5	2190.9	2648.9	3649.1	4943.9	5507.8	6073.5	6755.9	7003.8	7063.0
62.5°	1084.7	1095.5	1127.8	1231.9	1566.0	2198.1	2560.9	3090.6	4105.3	4969.1	5367.8
65°	978.7	984.1	991.3	984.1	1000.3	1077.5	1174.5	1359.4	1772.5	2201.7	2711.7
67.5°	862.0	869.2	874.6	869.2	874.6	878.2	888.9	905.1	980.5	1041.6	1088.3
70°	696.8	707.6	716.5	712.9	734.5	734.5	745.3	757.8	795.6	840.5	872.8
72.5°	531.6	522.6	533.4	537.0	556.7	567.5	583.6	598.0	641.1	668.1	709.4
75°	344.8	335.8	352.0	361.0	387.9	402.3	416.6	431.0	461.5	479.5	519.0
77.5°	186.8	185.0	201.1	213.7	242.4	260.4	271.2	281.9	307.1	312.5	337.6
80°	107.8	107.8	118.5	127.5	145.5	165.2	176.0	185.0	202.9	208.3	219.1
82.5°	59.3	59.3	64.7	70.0	84.4	95.2	104.2	111.3	127.5	132.9	138.3
85°	28.7	26.9	30.5	34.1	39.5	44.9	50.3	53.9	66.4	70.0	77.2
87.5°	3.6	3.6	3.6	5.4	7.2	10.8	12.6	12.6	19.8	23.3	26.9
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°	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1	3658.1
2.5°	3694.0	3670.7	3685.1	3690.4	3690.4	3685.1	3661.7	3654.5	3643.7	3627.6	3627.6
5°	3776.6	3758.7	3762.3	3753.3	3731.7	3704.8	3661.7	3640.2	3622.2	3602.4	3600.6
7.5°	3918.5	3895.2	3891.6	3857.5	3800.0	3742.5	3677.9	3638.4	3611.4	3586.3	3584.5
10°	4103.5	4081.9	4055.0	3986.8	3902.4	3817.9	3730.0	3676.1	3636.6	3600.6	3598.9
12.5°	4310.0	4284.9	4234.6	4134.0	4028.1	3945.5	3844.9	3762.3	3703.0	3654.5	3645.5
15°	4534.5	4498.6	4412.4	4293.8	4189.7	4101.7	3993.9	3875.4	3785.6	3708.4	3699.4
17.5°	4706.9	4660.2	4566.8	4455.5	4369.3	4281.3	4141.2	3992.1	3862.8	3765.9	3751.5
20°	4825.4	4787.7	4681.7	4599.1	4548.9	4471.6	4308.2	4139.4	3993.9	3871.8	3864.6
22.5°	4935.0	4890.1	4785.9	4737.4	4737.4	4685.3	4529.1	4329.8	4159.2	4017.3	3999.3
25°	5058.9	5010.4	4931.4	4926.0	4951.1	4927.8	4739.2	4525.5	4326.2	4166.3	4137.6
27.5°	5231.3	5177.4	5130.7	5163.0	5198.9	5173.8	4963.7	4715.9	4505.8	4344.1	4319.0
30°	5506.0	5439.6	5396.5	5436.0	5506.0	5432.4	5204.3	4942.1	4730.2	4552.4	4539.9
32.5°	5825.7	5750.3	5705.4	5768.2	5831.1	5716.1	5489.9	5238.5	5015.8	4829.0	4807.5
35°	6210.0	6114.8	6048.4	6132.8	6197.4	6084.3	5859.8	5621.0	5373.1	5179.2	5150.5
37.5°	6551.2	6436.3	6391.4	6509.9	6596.1	6522.5	6278.2	6053.8	5782.6	5570.7	5558.1
40°	6799.0	6685.9	6653.6	6849.3	7000.2	6982.2	6763.1	6506.3	6251.3	6007.1	5983.7
42.5°	6906.8	6827.8	6834.9	7098.9	7332.4	7447.3	7251.6	6976.8	6730.8	6477.6	6461.4
45°	6930.1	6881.6	6939.1	7269.5	7576.6	7811.9	7644.9	7415.0	7136.6	6892.4	6885.2
47.5°	6955.3	6928.3	7016.3	7366.5	7731.1	8004.0	7910.7	7673.6	7391.7	7152.8	7134.9
50°	7014.5	7003.8	7102.5	7434.8	7804.7	8056.1	7950.2	7714.9	7425.8	7190.5	7147.4
52.5°	7032.5	7014.5	7156.4	7540.7	7926.8	8054.3	7826.3	7519.2	7228.2	6966.0	6921.1
55°	7088.2	7055.8	7152.8	7580.2	8095.6	8158.5	7819.1	7359.3	6953.5	6596.1	6490.1
57.5°	7102.5	7066.6	7129.5	7515.6	7912.5	7856.8	6872.7	5938.8	5173.8	4776.9	4821.8
60°	7025.3	7036.1	6928.3	6885.2	6346.5	5603.0	4207.6	3363.6	2641.7	2336.4	2402.8
62.5°	5348.0	5392.9	5024.7	4369.3	3360.0	2663.2	1761.7	1368.4	1158.3	1104.4	1113.4
65°	2699.1	2760.2	2377.7	1966.4	1461.8	1181.7	1021.8	989.5	978.7	966.2	966.2
67.5°	1068.5	1086.5	1072.1	1003.9	933.8	908.7	901.5	897.9	885.3	878.2	880.0
70°	858.4	872.8	851.2	808.1	779.4	777.6	774.0	766.8	757.8	757.8	763.2
72.5°	700.4	714.7	684.2	657.3	635.7	619.6	610.6	605.2	592.6	592.6	598.0
75°	515.4	524.4	499.2	495.7	472.3	456.1	441.8	434.6	418.4	411.2	416.6
77.5°	343.0	341.2	328.6	328.6	319.7	299.9	283.7	267.6	246.0	231.7	235.3
80°	222.7	222.7	217.3	217.3	208.3	192.2	172.4	156.2	143.7	132.9	132.9
82.5°	141.9	140.1	138.3	136.5	132.9	116.7	102.4	91.6	82.6	75.4	77.2
85°	79.0	79.0	75.4	75.4	68.2	59.3	52.1	44.9	39.5	37.7	37.7
87.5°	26.9	26.9	25.1	25.1	21.6	16.2	12.6	10.8	9.0	7.2	9.0
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)