

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: P641312

Luminaire Tested: GWS-SA5F-750-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42329.1 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

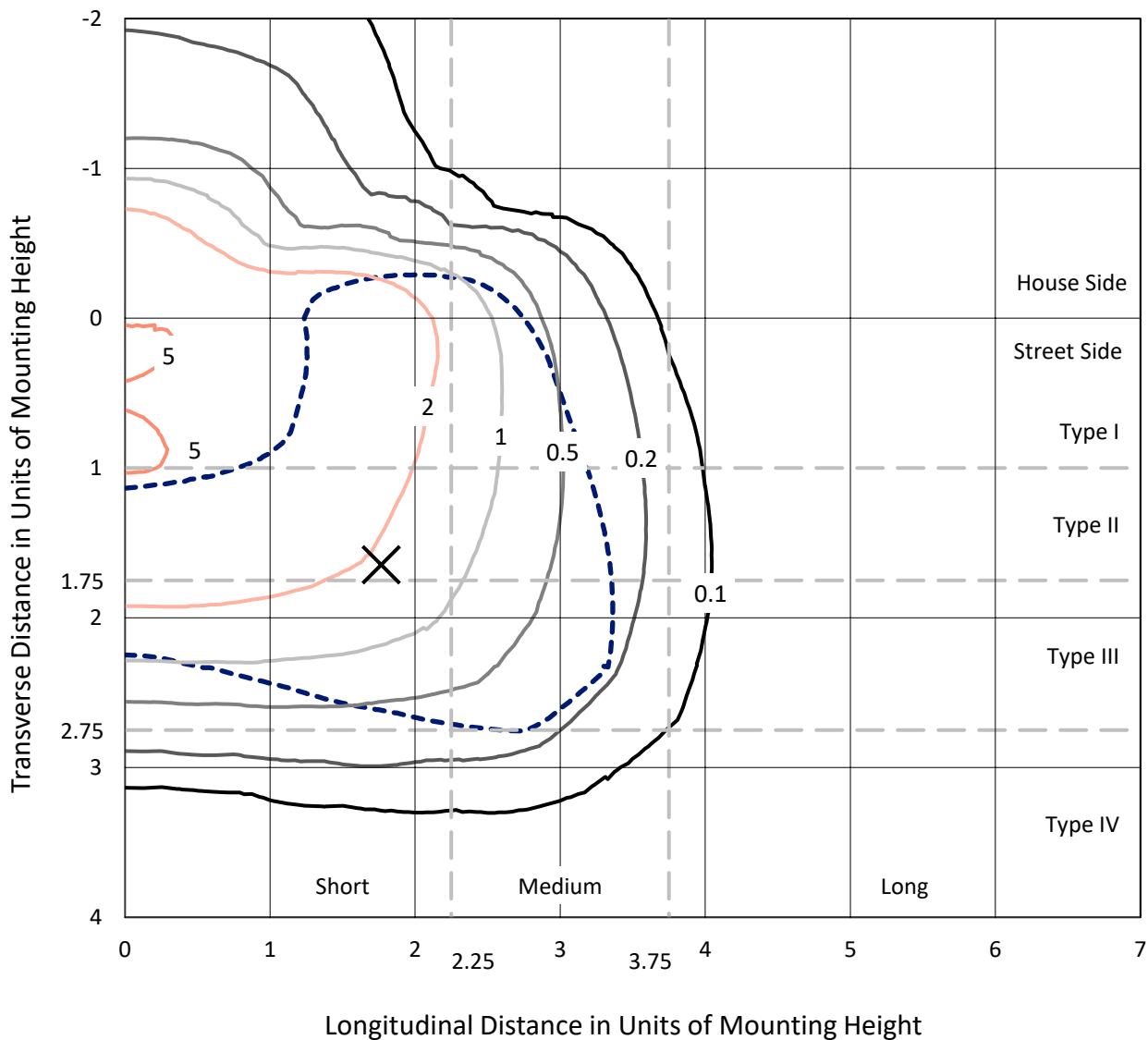
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

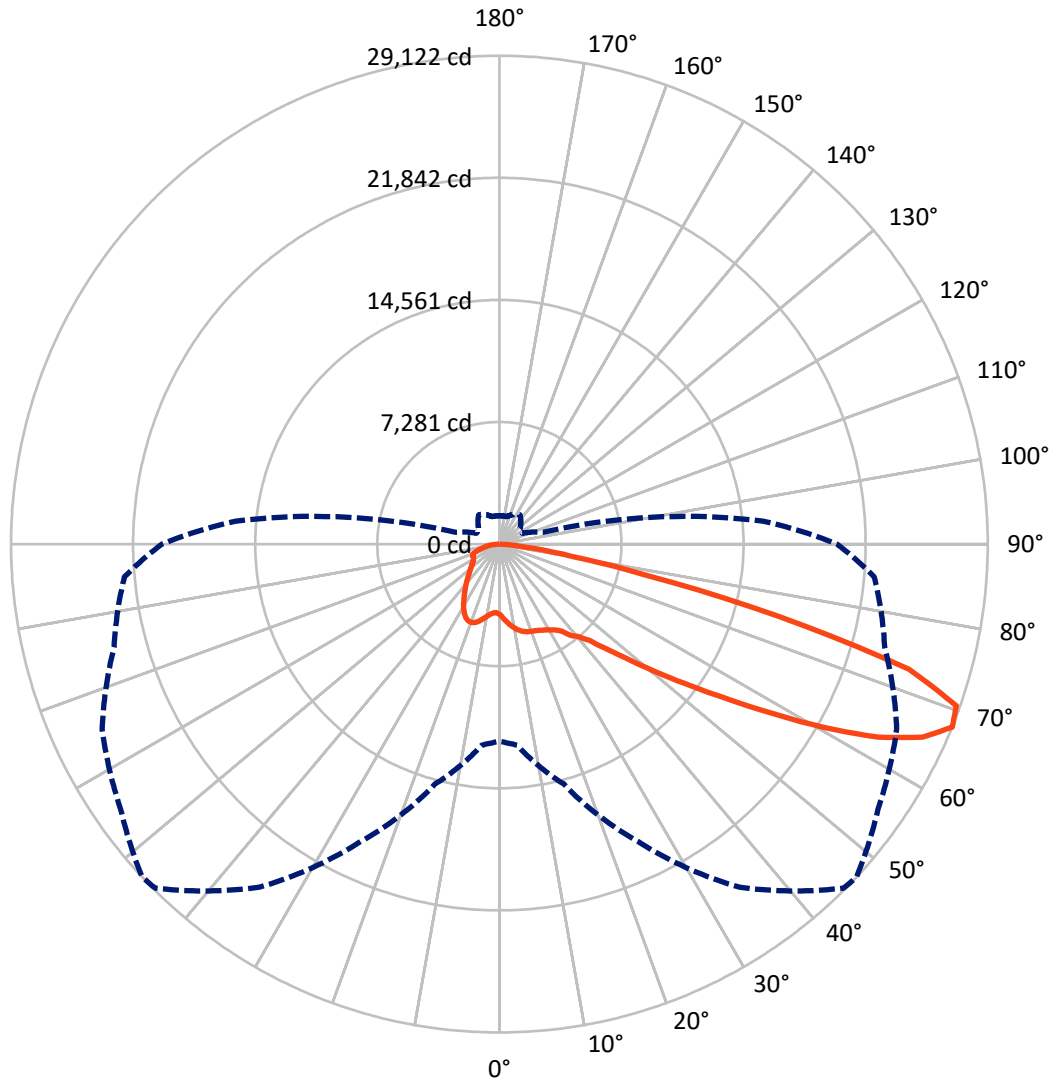
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9647.1	0.0	9647.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	32682.0	0.0	32682.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	42329.1	0.0	42329.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.9	1.0
10°-20°	1428.8	3.4
20°-30°	2428.5	5.7
30°-40°	3557.6	8.4
40°-50°	5420.4	12.8
50°-60°	9698.2	22.9
60°-70°	12941.2	30.6
70°-80°	5852.3	13.8
80°-90°	573.4	1.4
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°	42329.1	100.0
0°-180°	42329.1	100.0

Coefficient of Utilization



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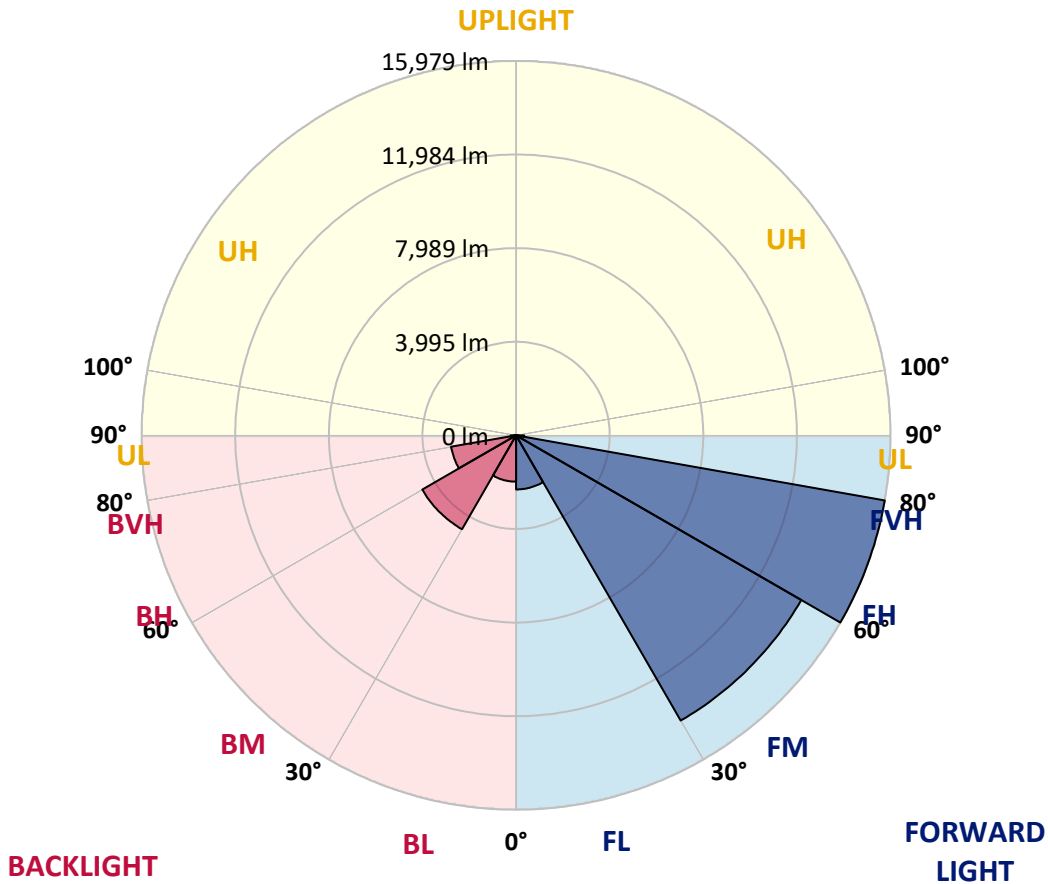
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2308.5	5.5			
FM (30°-60°)	14053.7	33.2			
FH (60°-80°)	15978.8	37.7			G5
FVH (80°-90°)	341.1	0.8			G3/500
BL (0°-30°)	1977.7	4.7	B3/2500		
BM (30°-60°)	4622.4	10.9	B3/5000		
BH (60°-80°)	2814.7	6.6	B4/5000		G4/5000
BVH (80°-90°)	232.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2
2.5°	4474.7	4490.0	4486.9	4462.4	4447.1	4419.6	4422.6	4379.8	4315.5	4272.7	4223.7
5°	4869.5	4894.0	4863.4	4823.6	4762.4	4673.6	4664.4	4566.5	4444.1	4358.4	4269.6
7.5°	5212.3	5227.6	5190.9	5123.5	5034.8	4915.4	4894.0	4777.7	4624.6	4490.0	4361.4
10°	5478.6	5496.9	5448.0	5359.2	5242.9	5123.5	5108.2	4988.9	4826.6	4667.5	4505.3
12.5°	5705.1	5711.2	5659.1	5539.8	5414.3	5291.9	5276.6	5166.4	5016.4	4854.2	4676.7
15°	5836.7	5839.7	5775.4	5643.8	5524.5	5417.4	5408.2	5313.3	5175.6	5022.5	4832.8
17.5°	5827.5	5833.6	5787.7	5671.4	5567.3	5503.1	5493.9	5432.7	5325.5	5187.8	4998.0
20°	5714.2	5720.4	5689.8	5613.2	5558.1	5539.8	5542.8	5524.5	5460.2	5347.0	5154.1
22.5°	5625.5	5634.7	5607.1	5552.0	5545.9	5588.7	5597.9	5607.1	5576.5	5475.5	5288.8
25°	5668.3	5683.6	5640.8	5564.3	5576.5	5671.4	5689.8	5720.4	5695.9	5610.2	5448.0
27.5°	5965.2	5974.4	5864.2	5708.1	5671.4	5772.4	5799.9	5848.9	5830.5	5751.0	5625.5
30°	6653.9	6647.7	6412.1	6029.5	5876.5	5916.2	5937.7	6008.1	6014.2	5962.1	5842.8
32.5°	7624.1	7593.5	7229.3	6620.2	6176.4	6078.5	6102.9	6197.8	6268.2	6213.1	6050.9
35°	8649.4	8621.9	8220.9	7507.8	6730.4	6390.6	6363.1	6436.6	6543.7	6390.6	6158.0
37.5°	9625.7	9582.9	9172.8	8291.3	7412.9	6938.5	6898.7	6825.3	6761.0	6467.2	6289.6
40°	10709.2	10660.2	10302.2	9304.4	8165.8	7357.8	7256.8	6966.0	6907.9	6721.2	6632.4
42.5°	11866.1	11866.1	11569.3	10586.8	9074.8	7957.7	7826.1	7388.4	7449.6	7327.2	7223.1
45°	13023.1	13056.7	12821.1	11878.4	10289.9	9090.1	8879.0	8257.6	8404.5	8349.5	8297.4
47.5°	14008.6	14072.9	14027.0	13197.5	11777.4	10467.4	10146.1	9500.3	9815.5	9947.1	10094.0
50°	15070.6	15141.0	15095.1	14767.6	13518.9	12135.5	11847.8	11180.6	11722.3	12117.1	12597.6
52.5°	16646.9	16747.9	16365.3	16239.8	15633.8	14030.0	13772.9	13013.9	13996.4	14651.3	15722.6
55°	17978.3	17975.2	17840.5	18128.2	17904.8	16346.9	16062.3	15373.7	16628.5	17323.3	18890.3
57.5°	18596.5	18670.0	19132.1	19946.3	20393.1	19178.0	18905.6	18201.7	19453.5	19814.7	21507.2
60°	18914.8	19006.6	19900.4	21510.3	22713.1	22269.3	22162.2	21265.4	21969.4	21926.5	23713.9
62.5°	18468.0	18651.6	20087.1	22226.5	24368.9	25375.9	25342.2	23986.3	24108.8	23689.4	25082.0
65°	16417.3	16616.3	18868.9	21868.4	25314.6	27738.7	27747.9	26450.2	25752.3	24546.4	24852.5
67.5°	11740.7	12025.3	14810.5	19566.7	24981.0	29015.0	29122.1	27567.3	26138.0	23787.4	22440.7
70°	6399.8	6607.9	8790.2	14222.8	21975.5	28708.9	28907.9	27028.6	24436.2	20576.8	17274.3
72.5°	2907.6	2975.0	4089.0	7804.7	15012.5	24711.7	25544.2	24121.0	20068.7	15199.2	10984.7
75°	1331.4	1362.0	1781.3	3734.0	7844.5	16536.7	17121.3	17966.0	13965.8	9598.2	5726.5
77.5°	835.6	844.7	1013.1	1707.8	3911.5	8254.6	8869.8	10697.0	8178.1	4750.1	2393.4
80°	492.8	501.9	630.5	924.3	1836.4	3776.8	4361.4	4229.8	3844.2	2050.6	1089.6
82.5°	247.9	257.1	364.2	526.4	1000.8	1502.8	1769.1	1778.2	1432.4	1111.0	615.2
85°	88.8	91.8	119.4	208.1	425.4	495.8	554.0	676.4	700.9	645.8	296.9
87.5°	0.0	0.0	3.1	6.1	12.2	49.0	52.0	97.9	205.1	229.5	119.4
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°	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2	4196.2
2.5°	4208.4	4162.5	4147.2	4131.9	4107.4	4098.2	4079.8	4061.5	4061.5	4043.1	4033.9
5°	4229.8	4168.6	4128.8	4110.5	4095.2	4104.3	4104.3	4110.5	4131.9	4119.6	4125.8
7.5°	4306.3	4235.9	4180.9	4165.5	4165.5	4202.3	4226.8	4257.4	4297.2	4303.3	4303.3
10°	4441.0	4358.4	4300.2	4291.0	4306.3	4358.4	4395.1	4431.8	4480.8	4483.9	4490.0
12.5°	4587.9	4505.3	4447.1	4459.4	4474.7	4542.0	4581.8	4612.4	4661.4	4661.4	4658.3
15°	4740.9	4649.1	4600.2	4624.6	4670.6	4747.1	4753.2	4756.3	4780.7	4774.6	4771.6
17.5°	4900.1	4802.2	4765.4	4802.2	4851.1	4887.9	4857.3	4814.4	4805.2	4793.0	4786.9
20°	5056.2	4955.2	4939.9	4967.4	4982.7	4952.1	4857.3	4777.7	4740.9	4722.6	4716.5
22.5°	5190.9	5105.2	5096.0	5096.0	5019.5	4912.3	4771.6	4664.4	4615.5	4591.0	4584.9
25°	5350.0	5270.4	5255.1	5172.5	4976.6	4780.7	4591.0	4493.0	4453.2	4441.0	4444.1
27.5°	5536.7	5481.6	5432.7	5197.0	4854.2	4548.1	4333.9	4291.0	4275.7	4291.0	4300.2
30°	5766.3	5711.2	5601.0	5166.4	4658.3	4245.1	4040.1	4037.0	4082.9	4122.7	4128.8
32.5°	5953.0	5928.5	5747.9	5068.4	4382.9	3911.5	3737.1	3749.3	3831.9	3887.0	3896.2
35°	6099.9	6139.7	5870.3	4906.2	4055.4	3596.3	3458.5	3464.7	3510.6	3587.1	3590.1
37.5°	6308.0	6442.7	5980.5	4658.3	3678.9	3323.9	3198.4	3152.5	3146.3	3167.8	3173.9
40°	6727.3	6929.3	6060.1	4297.2	3314.7	3079.0	2938.2	2849.5	2773.0	2714.8	2696.4
42.5°	7360.9	7593.5	6106.0	3859.5	2990.3	2837.2	2678.1	2564.8	2430.2	2307.7	2264.9
45°	8523.9	8600.4	6106.0	3394.3	2702.6	2610.7	2451.6	2316.9	2145.5	2001.7	1971.1
47.5°	10384.8	10139.9	6112.1	2944.3	2448.5	2411.8	2274.1	2121.0	1931.3	1811.9	1793.5
50°	13188.3	12328.3	6237.6	2570.9	2237.3	2243.5	2142.5	1974.1	1802.7	1714.0	1698.7
52.5°	16365.3	15024.7	6574.3	2295.5	2059.8	2105.7	2050.6	1888.4	1735.4	1658.9	1643.6
55°	19352.5	17503.9	6862.0	2099.6	1909.8	1989.4	1986.4	1836.4	1698.7	1622.1	1613.0
57.5°	21892.8	19202.5	6819.1	1940.5	1781.3	1882.3	1928.2	1802.7	1674.2	1609.9	1600.7
60°	23472.1	20102.4	6210.1	1793.5	1683.4	1805.8	1894.5	1793.5	1686.4	1671.1	1674.2
62.5°	24157.7	19937.1	5040.9	1683.4	1619.1	1769.1	1931.3	1857.8	1799.7	1836.4	1857.8
65°	23092.6	18516.9	3709.5	1600.7	1557.9	1778.2	2017.0	1958.8	1799.7	1824.1	1833.3
67.5°	20136.0	15762.4	2681.1	1518.1	1481.4	1805.8	2139.4	1943.5	1695.6	1695.6	1677.2
70°	14510.5	11336.7	1946.6	1435.4	1404.8	1766.0	2145.5	1839.5	1576.2	1567.1	1521.1
72.5°	8732.0	6687.5	1518.1	1343.6	1288.5	1567.1	2010.8	1717.0	1459.9	1383.4	1328.3
75°	4535.9	3351.4	1273.2	1242.6	1104.9	1328.3	1839.5	1527.3	1248.7	1181.4	1150.8
77.5°	1943.5	1567.1	1092.7	1108.0	918.2	1117.1	1484.4	1322.2	1108.0	1022.3	994.7
80°	958.0	890.6	863.1	887.6	734.6	863.1	1279.4	1156.9	939.6	841.7	801.9
82.5°	547.9	520.3	621.3	630.5	523.4	722.3	1080.4	979.4	777.4	670.3	606.0
85°	254.0	272.4	376.5	379.5	324.4	495.8	707.0	550.9	413.2	342.8	327.5
87.5°	101.0	119.4	165.3	162.2	94.9	91.8	61.2	33.7	27.5	24.5	21.4
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)