

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: P641257

Luminaire Tested: GWS-SA5F-740-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641257  
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-740-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

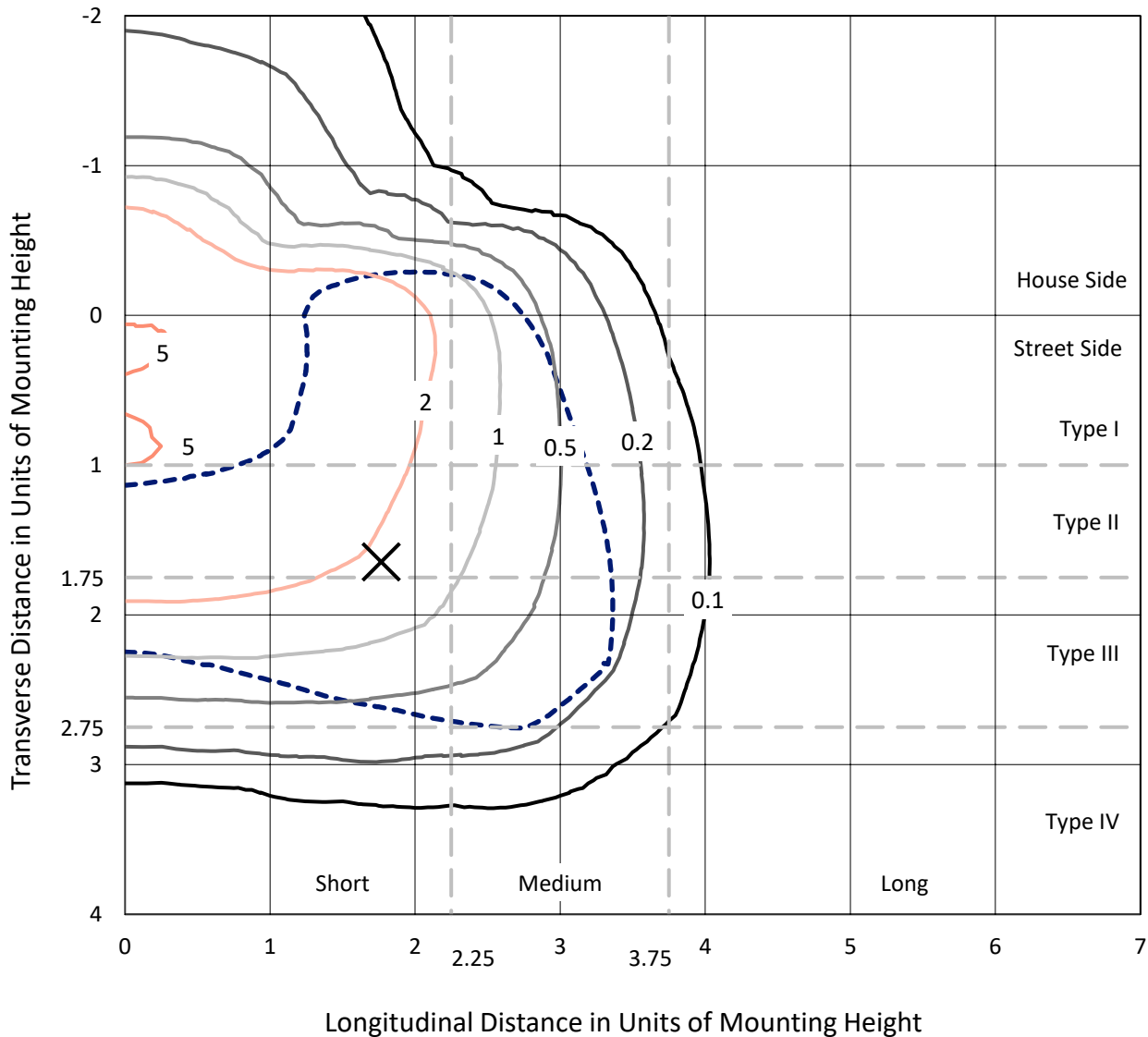
Lumens per Lamp: N/A  
Luminaire Lumens: 41380.8 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

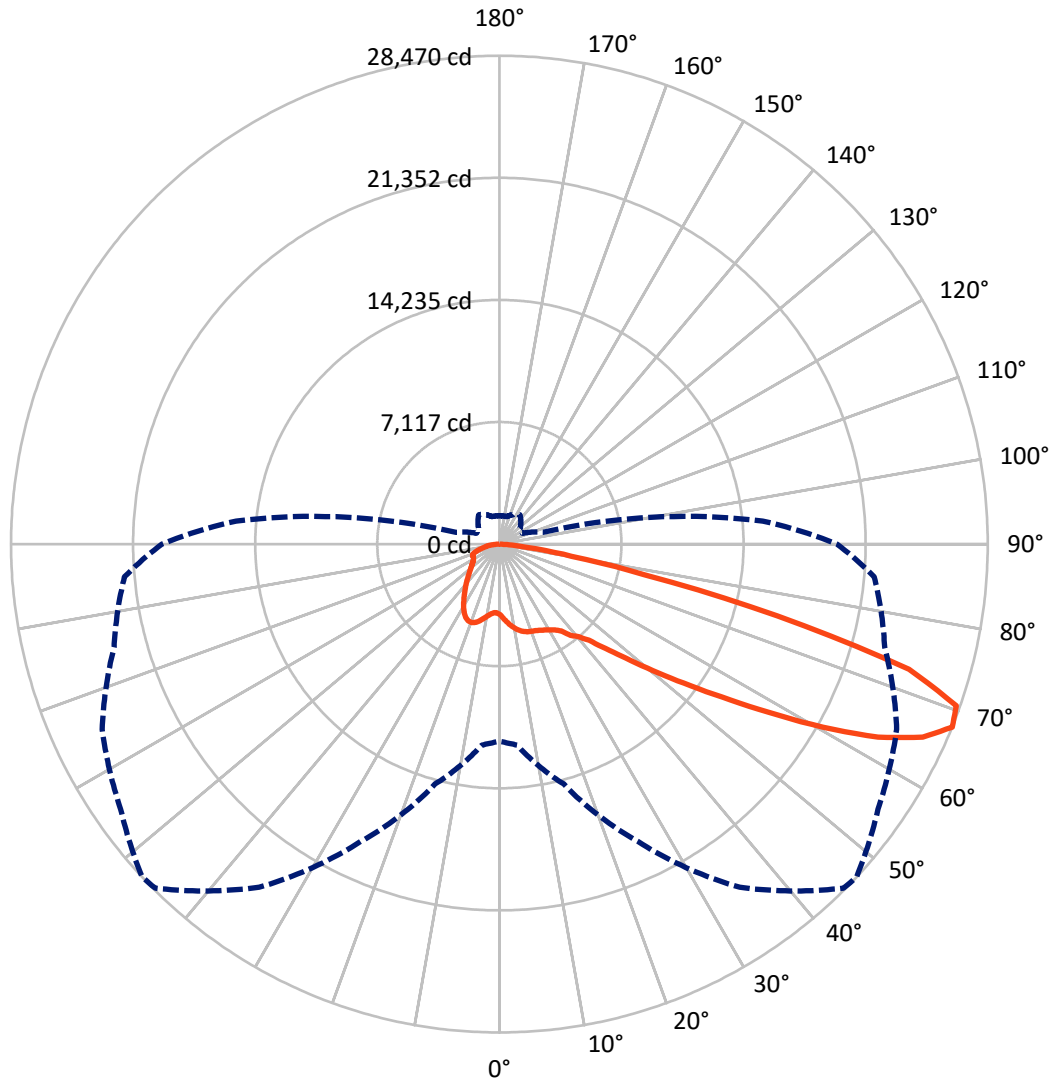
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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
<b>House Side</b>	Lumens	9431.0	0.0	9431.0
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	31949.8	0.0	31949.8
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	41380.8	0.0	41380.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.2	1.0
10°-20°	1396.8	3.4
20°-30°	2374.1	5.7
30°-40°	3477.9	8.4
40°-50°	5298.9	12.8
50°-60°	9480.9	22.9
60°-70°	12651.3	30.6
70°-80°	5721.2	13.8
80°-90°	560.5	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°	41380.8	100.0
0°-180°	41380.8	100.0

**Coefficient of Utilization**



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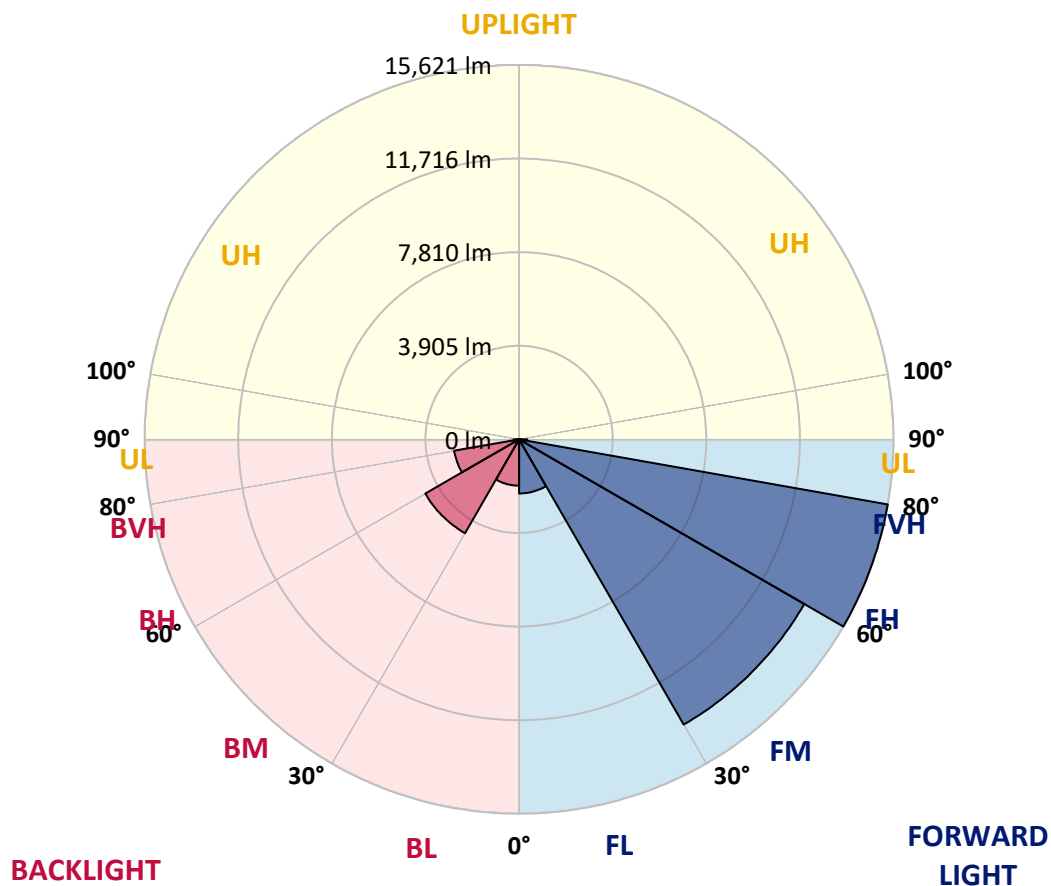
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2256.8	5.5			
FM (30°-60°)	13738.8	33.2			
FH (60°-80°)	15620.8	37.7			G5
FVH (80°-90°)	333.4	0.8			G3/500
BL (0°-30°)	1933.4	4.7	B3/2500		
BM (30°-60°)	4518.8	10.9	B3/5000		
BH (60°-80°)	2751.7	6.6	B4/5000		G4/5000
BVH (80°-90°)	227.1	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°	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1
2.5°	4374.4	4389.4	4386.4	4362.5	4347.5	4320.6	4323.6	4281.7	4218.8	4176.9	4129.1
5°	4760.4	4784.3	4754.4	4715.5	4655.7	4568.9	4559.9	4464.2	4344.5	4260.7	4174.0
7.5°	5095.5	5110.5	5074.6	5008.7	4922.0	4805.3	4784.3	4670.6	4521.0	4389.4	4263.7
10°	5355.8	5373.8	5325.9	5239.1	5125.4	5008.7	4993.8	4877.1	4718.5	4562.9	4404.3
12.5°	5577.2	5583.2	5532.4	5415.7	5293.0	5173.3	5158.4	5050.6	4904.0	4745.4	4571.9
15°	5705.9	5708.9	5646.1	5517.4	5400.7	5296.0	5287.0	5194.3	5059.6	4910.0	4724.5
17.5°	5696.9	5702.9	5658.0	5544.3	5442.6	5379.8	5370.8	5310.9	5206.2	5071.6	4886.1
20°	5586.2	5592.2	5562.3	5487.5	5433.6	5415.7	5418.7	5400.7	5337.9	5227.2	5038.7
22.5°	5499.4	5508.4	5481.5	5427.6	5421.7	5463.5	5472.5	5481.5	5451.6	5352.8	5170.3
25°	5541.3	5556.3	5514.4	5439.6	5451.6	5544.3	5562.3	5592.2	5568.3	5484.5	5325.9
27.5°	5831.6	5840.5	5732.8	5580.2	5544.3	5643.1	5670.0	5717.9	5699.9	5622.1	5499.4
30°	6504.8	6498.8	6268.4	5894.4	5744.8	5783.7	5804.6	5873.5	5879.4	5828.6	5711.9
32.5°	7453.3	7423.4	7067.3	6471.9	6038.0	5942.3	5966.2	6059.0	6127.8	6073.9	5915.3
35°	8455.6	8428.7	8036.7	7339.6	6579.6	6247.5	6220.5	6292.4	6397.1	6247.5	6020.1
37.5°	9410.1	9368.2	8967.3	8105.6	7246.8	6783.1	6744.2	6672.3	6609.5	6322.3	6148.7
40°	10469.3	10421.4	10071.4	9095.9	7982.9	7193.0	7094.2	6810.0	6753.1	6570.6	6483.8
42.5°	11600.3	11600.3	11310.1	10349.6	8871.5	7779.4	7650.8	7222.9	7282.7	7163.0	7061.3
45°	12731.3	12764.2	12533.8	11612.3	10059.4	8886.5	8680.0	8072.6	8216.3	8162.4	8111.5
47.5°	13694.8	13757.6	13712.7	12901.9	11513.5	10232.9	9918.8	9287.4	9595.6	9724.3	9867.9
50°	14733.0	14801.8	14757.0	14436.8	13216.0	11863.6	11582.4	10930.1	11459.7	11845.7	12315.4
52.5°	16273.9	16372.7	15998.7	15876.0	15283.6	13715.7	13464.4	12722.3	13682.8	14323.1	15370.3
55°	17575.5	17572.5	17440.9	17722.1	17503.7	15980.7	15702.5	15029.2	16256.0	16935.2	18467.1
57.5°	18179.9	18251.7	18703.5	19499.4	19936.3	18748.4	18482.1	17793.9	19017.7	19370.8	21025.4
60°	18491.1	18580.8	19454.5	21028.4	22204.3	21770.4	21665.7	20789.0	21477.2	21435.3	23182.7
62.5°	18054.2	18233.8	19637.0	21728.5	23823.0	24807.4	24774.5	23449.0	23568.6	23158.7	24520.1
65°	16049.5	16244.0	18446.2	21378.4	24747.5	27117.3	27126.2	25857.6	25175.4	23996.5	24295.7
67.5°	11477.6	11755.9	14478.7	19128.4	24421.4	28365.0	28469.7	26949.7	25552.4	23254.5	21938.0
70°	6256.4	6459.9	8593.3	13904.2	21483.2	28065.7	28260.2	26423.1	23888.8	20115.8	16887.3
72.5°	2842.5	2908.3	3997.4	7629.8	14676.2	24158.1	24971.9	23580.6	19619.1	14858.7	10738.6
75°	1301.6	1331.5	1741.4	3650.3	7668.7	16166.2	16737.7	17563.5	13652.9	9383.2	5598.2
77.5°	816.8	825.8	990.4	1669.6	3823.9	8069.6	8671.1	10457.3	7994.8	4643.7	2339.8
80°	481.7	490.7	616.4	903.6	1795.3	3692.2	4263.7	4135.1	3758.1	2004.7	1065.2
82.5°	242.4	251.3	356.1	514.6	978.4	1469.1	1729.4	1738.4	1400.3	1086.1	601.4
85°	86.8	89.8	116.7	203.5	415.9	484.7	541.6	661.3	685.2	631.3	290.2
87.5°	0.0	0.0	3.0	6.0	12.0	47.9	50.9	95.7	200.5	224.4	116.7
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°	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1	4102.1
2.5°	4114.1	4069.2	4054.3	4039.3	4015.4	4006.4	3988.4	3970.5	3970.5	3952.5	3943.6
5°	4135.1	4075.2	4036.3	4018.4	4003.4	4012.4	4012.4	4018.4	4039.3	4027.3	4033.3
7.5°	4209.9	4141.0	4087.2	4072.2	4072.2	4108.1	4132.1	4162.0	4200.9	4206.9	4206.9
10°	4341.5	4260.7	4203.9	4194.9	4209.9	4260.7	4296.6	4332.5	4380.4	4383.4	4389.4
12.5°	4485.1	4404.3	4347.5	4359.5	4374.4	4440.3	4479.1	4509.1	4556.9	4556.9	4554.0
15°	4634.7	4545.0	4497.1	4521.0	4565.9	4640.7	4646.7	4649.7	4673.6	4667.7	4664.7
17.5°	4790.3	4694.6	4658.7	4694.6	4742.5	4778.4	4748.4	4706.5	4697.6	4685.6	4679.6
20°	4942.9	4844.2	4829.2	4856.2	4871.1	4841.2	4748.4	4670.6	4634.7	4616.8	4610.8
22.5°	5074.6	4990.8	4981.8	4981.8	4907.0	4802.3	4664.7	4559.9	4512.1	4488.1	4482.1
25°	5230.2	5152.4	5137.4	5056.6	4865.1	4673.6	4488.1	4392.4	4353.5	4341.5	4344.5
27.5°	5412.7	5358.8	5310.9	5080.6	4745.4	4446.2	4236.8	4194.9	4179.9	4194.9	4203.9
30°	5637.1	5583.2	5475.5	5050.6	4554.0	4150.0	3949.6	3946.6	3991.4	4030.3	4036.3
32.5°	5819.6	5795.7	5619.1	4954.9	4284.7	3823.9	3653.3	3665.3	3746.1	3799.9	3808.9
35°	5963.2	6002.1	5738.8	4796.3	3964.5	3515.7	3381.1	3387.0	3431.9	3506.7	3509.7
37.5°	6166.7	6298.3	5846.5	4554.0	3596.5	3249.4	3126.7	3081.8	3075.9	3096.8	3102.8
40°	6576.6	6774.1	5924.3	4200.9	3240.4	3010.0	2872.4	2785.6	2710.8	2654.0	2636.0
42.5°	7196.0	7423.4	5969.2	3773.0	2923.3	2773.7	2618.1	2507.4	2375.7	2256.0	2214.1
45°	8333.0	8407.8	5969.2	3318.2	2642.0	2552.2	2396.7	2265.0	2097.5	1956.8	1926.9
47.5°	10152.1	9912.8	5975.2	2878.4	2393.7	2357.8	2223.1	2073.5	1888.0	1771.3	1753.4
50°	12892.9	12052.1	6097.9	2513.4	2187.2	2193.2	2094.5	1929.9	1762.3	1675.6	1660.6
52.5°	15998.7	14688.1	6427.0	2244.1	2013.7	2058.6	2004.7	1846.1	1696.5	1621.7	1606.7
55°	18918.9	17111.7	6708.3	2052.6	1867.1	1944.9	1941.9	1795.3	1660.6	1585.8	1576.8
57.5°	21402.4	18772.3	6666.4	1897.0	1741.4	1840.1	1885.0	1762.3	1636.7	1573.8	1564.9
60°	22946.3	19652.0	6070.9	1753.4	1645.6	1765.3	1852.1	1753.4	1648.6	1633.7	1636.7
62.5°	23616.5	19490.4	4928.0	1645.6	1582.8	1729.4	1888.0	1816.2	1759.3	1795.3	1816.2
65°	22575.3	18102.1	3626.4	1564.9	1523.0	1738.4	1971.8	1914.9	1759.3	1783.3	1792.3
67.5°	19684.9	15409.2	2621.1	1484.1	1448.2	1765.3	2091.5	1900.0	1657.6	1657.6	1639.7
70°	14185.5	11082.7	1903.0	1403.3	1373.4	1726.4	2097.5	1798.2	1540.9	1531.9	1487.1
72.5°	8536.4	6537.7	1484.1	1313.5	1259.7	1531.9	1965.8	1678.6	1427.2	1352.4	1298.6
75°	4434.3	3276.3	1244.7	1214.8	1080.1	1298.6	1798.2	1493.0	1220.8	1154.9	1125.0
77.5°	1900.0	1531.9	1068.2	1083.1	897.6	1092.1	1451.2	1292.6	1083.1	999.4	972.4
80°	936.5	870.7	843.8	867.7	718.1	843.8	1250.7	1131.0	918.6	822.8	783.9
82.5°	535.6	508.7	607.4	616.4	511.6	706.1	1056.2	957.5	760.0	655.3	592.4
85°	248.3	266.3	368.0	371.0	317.2	484.7	691.2	538.6	403.9	335.1	320.2
87.5°	98.7	116.7	161.6	158.6	92.8	89.8	59.8	32.9	26.9	23.9	20.9
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)