

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: P641359

Luminaire Tested: GWS-SA5F-760-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-760-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

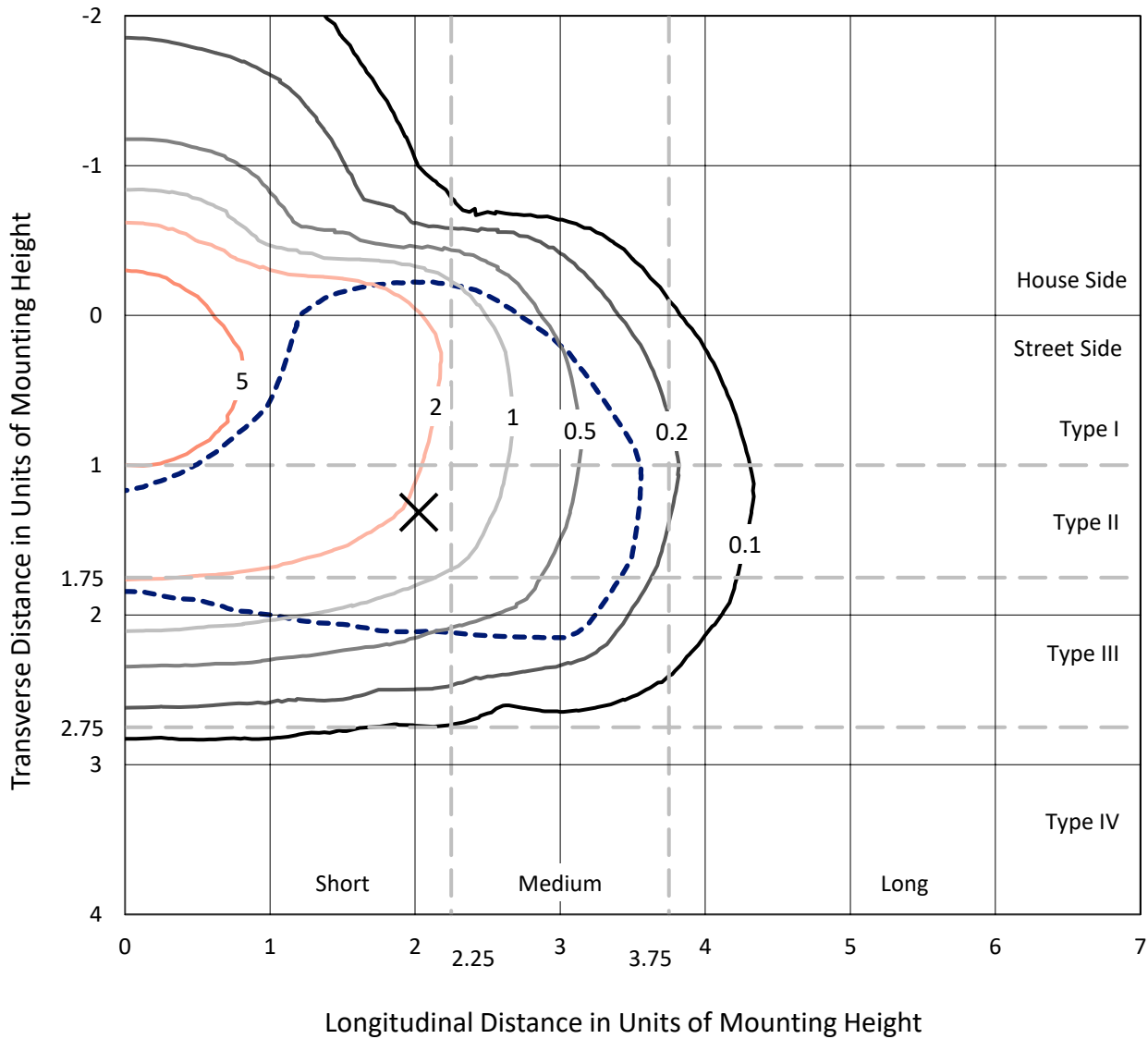
Lumens per Lamp: N/A  
Luminaire Lumens: 42138.4 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

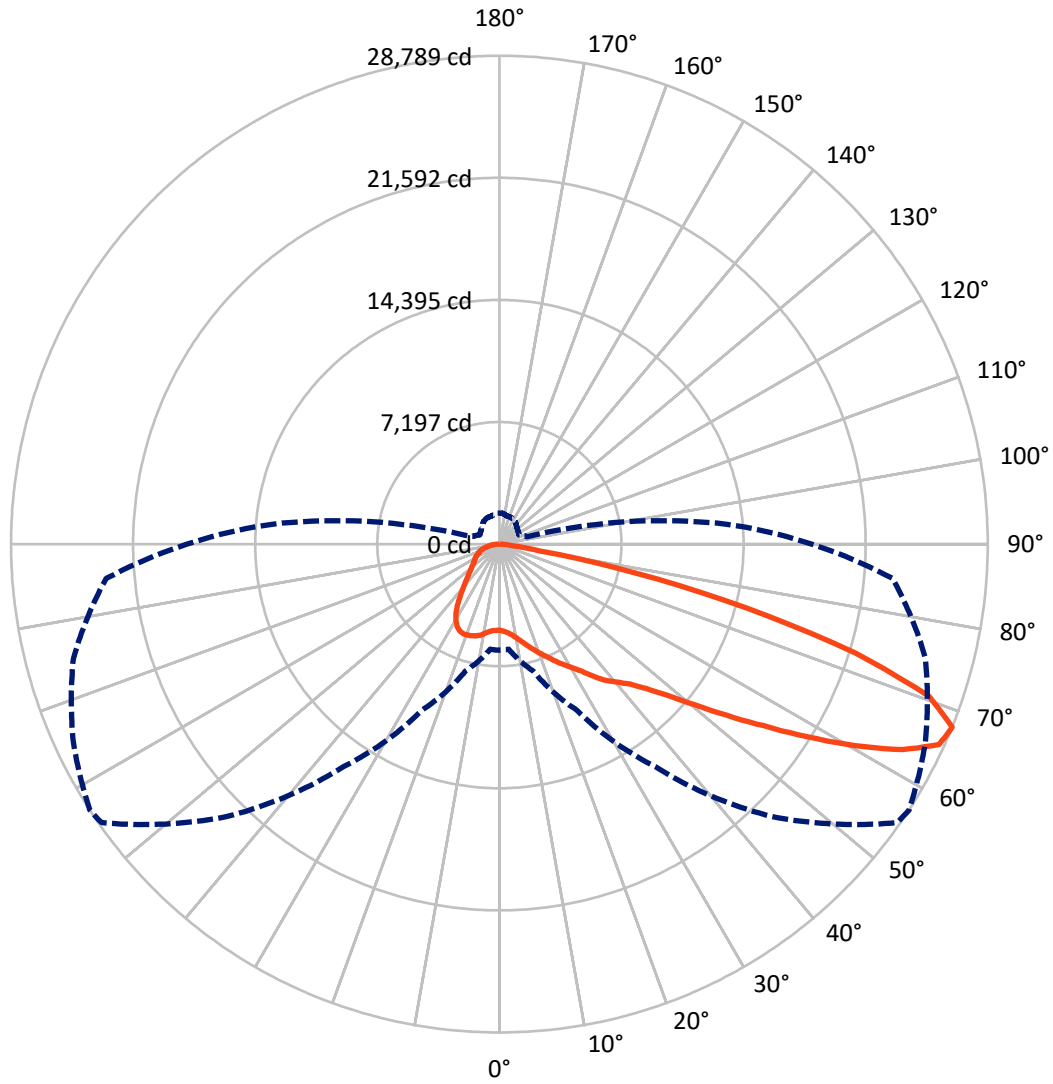
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9264.6	0.0	9264.6
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	32873.8	0.0	32873.8
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	42138.4	0.0	42138.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.6	1.2
10°-20°	1667.1	4.0
20°-30°	2972.1	7.1
30°-40°	4321.0	10.3
40°-50°	6254.0	14.8
50°-60°	9787.3	23.2
60°-70°	11417.5	27.1
70°-80°	4766.1	11.3
80°-90°	449.8	1.1
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°	42138.4	100.0
0°-180°	42138.4	100.0

**Coefficient of Utilization**



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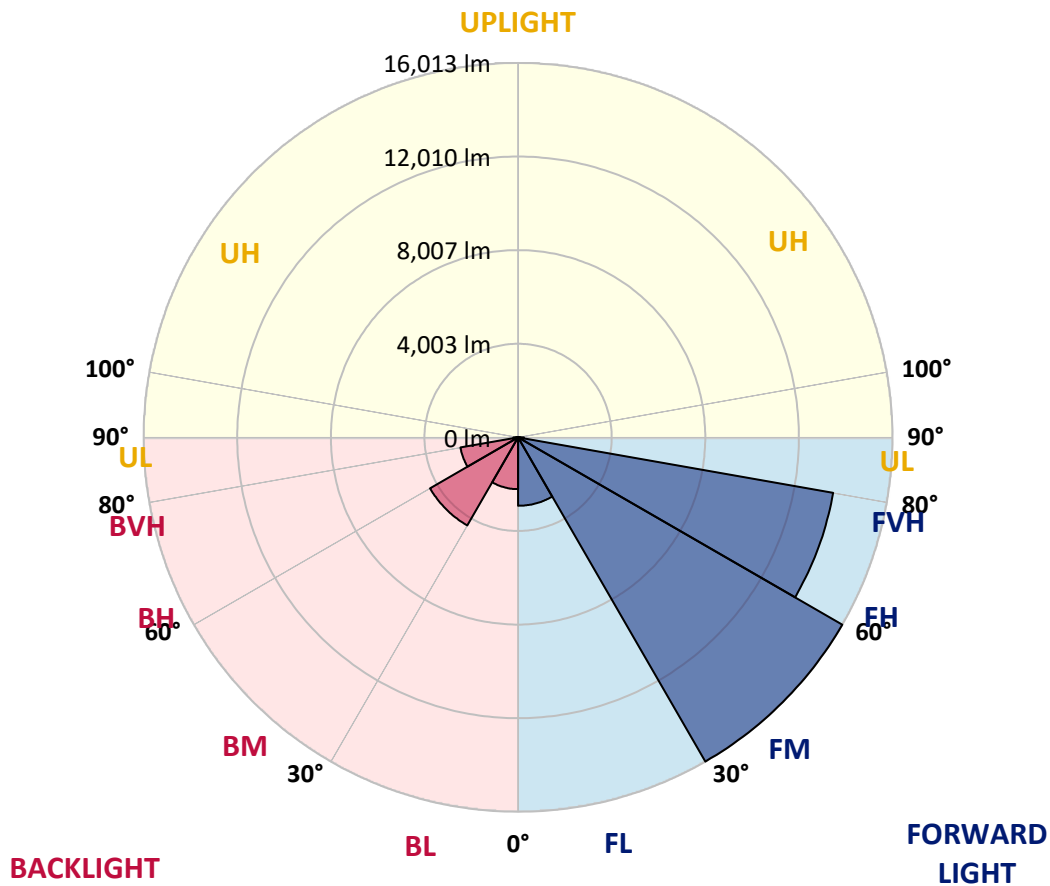
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2926.9	6.9			
FM (30°-60°)	16013.2	38.0			
FH (60°-80°)	13683.1	32.5			G5
FVH (80°-90°)	250.6	0.6			G3/500
BL (0°-30°)	2215.8	5.3	B3/2500		
BM (30°-60°)	4349.1	10.3	B3/5000		
BH (60°-80°)	2500.6	5.9	B4/5000		G4/5000
BVH (80°-90°)	199.2	0.5			G2/225
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°	55°	57°	65°	75°	85°
0°	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4
2.5°	5149.8	5143.8	5140.8	5158.9	5152.9	5149.8	5149.8	5146.8	5140.8	5116.6	5083.4
5°	5291.7	5279.6	5267.6	5282.7	5270.6	5258.5	5255.5	5249.5	5228.3	5192.1	5140.8
7.5°	5439.6	5427.6	5430.6	5439.6	5430.6	5424.5	5415.5	5409.4	5376.2	5318.9	5249.5
10°	5647.9	5647.9	5654.0	5663.0	5666.0	5657.0	5638.9	5629.8	5590.6	5518.1	5421.5
12.5°	5949.8	5943.7	5943.7	5937.7	5946.8	5937.7	5919.6	5904.5	5856.2	5762.6	5623.8
15°	6348.2	6324.1	6303.0	6263.7	6251.7	6218.4	6224.5	6215.4	6170.1	6043.4	5868.3
17.5°	6773.9	6770.9	6737.7	6659.2	6580.7	6526.3	6538.4	6535.4	6511.3	6339.2	6115.8
20°	7148.2	7163.3	7133.1	7072.7	6967.1	6864.4	6858.4	6873.5	6843.3	6671.2	6360.3
22.5°	7567.8	7555.7	7525.5	7447.0	7368.6	7259.9	7223.7	7211.6	7199.5	7003.3	6610.9
25°	7966.3	8002.5	7963.2	7890.8	7770.0	7652.3	7622.1	7634.2	7601.0	7341.4	6879.5
27.5°	8470.4	8485.5	8461.3	8361.7	8259.1	8093.0	8035.7	8035.7	8023.6	7658.3	7090.8
30°	9007.7	9050.0	9007.7	8926.2	8820.5	8582.1	8458.3	8446.2	8410.0	7984.4	7338.4
32.5°	9548.0	9578.2	9548.0	9469.5	9348.8	9140.5	8962.4	8935.2	8886.9	8340.6	7591.9
35°	10028.0	10055.2	10049.1	10067.2	9967.6	9705.0	9596.3	9584.3	9457.5	8805.4	7936.1
37.5°	10553.2	10586.4	10541.2	10577.4	10538.2	10290.6	10257.4	10197.0	10015.9	9243.1	8298.3
40°	11150.9	11181.1	11108.7	11123.8	11078.5	10939.6	10770.6	10689.1	10420.4	9717.1	8868.8
42.5°	11790.9	11860.3	11893.5	11866.4	11760.7	11682.2	11386.4	11283.8	11060.4	10571.4	9807.6
45°	12717.6	12820.3	12868.6	12799.1	12753.8	12642.2	12279.9	12156.2	12038.4	11775.8	11117.7
47.5°	13716.8	13810.4	13964.3	13994.5	14030.7	13946.2	13436.1	13315.3	13336.5	13306.3	12729.7
50°	14513.7	14592.2	14939.4	15310.7	15618.6	15642.7	14990.7	14860.9	14975.6	15072.2	14670.7
52.5°	15093.3	15162.7	15621.6	16388.3	17085.6	17601.8	16898.5	16750.6	16844.1	17061.5	16877.3
55°	15564.2	15660.8	16140.8	17318.1	18727.8	19542.8	19093.0	18905.9	18866.6	19135.3	19241.0
57.5°	15811.8	15841.9	16515.1	18045.6	19932.2	21447.6	21643.8	21432.5	21058.2	21206.1	21755.5
60°	15247.3	15298.6	16219.3	18232.7	20883.1	23337.3	24321.4	24146.3	23349.4	23430.9	24037.6
62.5°	13686.6	13759.1	14866.9	17342.2	20961.6	24599.1	26793.6	26682.0	25613.4	25172.6	25353.7
65°	10978.9	11003.0	12150.1	15138.6	19400.9	24756.1	28517.3	28490.1	27195.1	26162.7	25387.0
67.5°	6260.7	6218.4	7751.9	10797.8	16011.0	22715.4	28629.0	28789.0	27708.3	25999.7	23273.9
70°	2713.8	2719.8	3426.2	5327.9	10363.1	18359.5	26591.4	26866.1	26223.1	23286.0	18516.5
72.5°	1255.8	1273.9	1578.8	2306.3	4425.4	11389.4	21683.1	21930.6	21378.2	18637.2	13472.3
75°	887.5	902.6	1053.5	1322.2	2034.6	4437.4	14504.7	15023.9	15292.5	13940.2	8877.9
77.5°	673.2	694.3	769.8	917.7	1255.8	1572.7	6939.9	8177.6	9741.2	8672.6	4573.3
80°	428.7	428.7	510.2	612.8	766.7	818.1	2004.4	2375.7	4766.5	3574.1	1796.1
82.5°	289.8	298.8	347.1	389.4	440.7	464.9	860.3	917.7	1376.5	1216.5	739.6
85°	154.0	160.0	181.1	178.1	211.3	184.1	362.2	359.2	504.1	552.4	280.7
87.5°	0.0	0.0	3.0	3.0	6.0	9.1	39.2	42.3	105.7	169.0	93.6
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°	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4	5077.4
2.5°	5101.5	5065.3	5083.4	5077.4	5095.5	5095.5	5062.3	5053.2	5056.3	5020.0	5008.0
5°	5146.8	5104.6	5113.6	5101.5	5119.7	5134.7	5119.7	5119.7	5137.8	5110.6	5095.5
7.5°	5249.5	5201.2	5201.2	5186.1	5207.2	5219.3	5207.2	5225.3	5258.5	5231.3	5216.2
10°	5412.5	5355.1	5358.1	5340.0	5349.1	5343.0	5294.7	5279.6	5288.7	5264.5	5252.5
12.5°	5623.8	5545.3	5545.3	5509.1	5487.9	5424.5	5324.9	5288.7	5294.7	5273.6	5264.5
15°	5826.0	5753.6	5738.5	5666.0	5569.4	5451.7	5361.1	5337.0	5343.0	5321.9	5306.8
17.5°	6064.5	5970.9	5916.6	5783.8	5605.7	5484.9	5394.3	5337.0	5288.7	5240.4	5228.3
20°	6284.9	6167.1	6067.5	5862.2	5644.9	5478.9	5309.8	5168.0	5050.2	4986.8	4971.7
22.5°	6511.3	6360.3	6185.2	5916.6	5641.9	5370.2	5059.3	4845.0	4669.9	4576.3	4594.4
25°	6725.6	6535.4	6296.9	5967.9	5545.3	5128.7	4706.1	4386.1	4186.9	4114.4	4093.3
27.5°	6903.7	6668.2	6399.6	5943.7	5346.1	4781.6	4223.1	3866.9	3673.7	3592.2	3571.1
30°	7102.9	6837.3	6547.5	5832.1	5032.1	4295.6	3676.7	3386.9	3248.1	3169.6	3172.6
32.5°	7332.3	7054.6	6755.8	5617.7	4630.6	3770.3	3227.0	3027.7	2916.0	2837.5	2825.5
35°	7640.2	7365.5	6894.6	5294.7	4120.5	3287.3	2919.0	2756.0	2617.2	2514.5	2493.4
37.5°	8020.6	7833.4	6909.7	4863.1	3574.1	2955.3	2698.7	2523.6	2354.6	2218.7	2203.6
40°	8672.6	8458.3	6786.0	4322.7	3109.2	2740.9	2514.5	2312.3	2116.1	1965.1	1944.0
42.5°	9602.4	9161.6	6520.3	3713.0	2759.1	2571.9	2339.5	2082.9	1883.6	1778.0	1762.9
45°	10785.7	9946.5	6121.8	3139.4	2499.5	2405.9	2155.3	1886.7	1781.0	1705.5	1690.5
47.5°	12234.6	10861.1	5663.0	2692.6	2297.2	2254.9	1968.2	1820.3	1726.7	1663.3	1648.2
50°	13967.4	12026.4	5285.7	2342.5	2116.1	2079.9	1907.8	1781.0	1705.5	1654.2	1642.2
52.5°	15944.6	13321.4	5101.5	2091.9	1959.1	1922.9	1886.7	1772.0	1708.6	1669.3	1654.2
55°	17997.3	14685.8	4929.5	1898.7	1826.3	1847.4	1889.7	1802.1	1753.8	1702.5	1687.4
57.5°	19980.5	15965.7	4506.9	1747.8	1729.7	1811.2	1904.8	1832.3	1775.0	1723.7	1705.5
60°	21348.0	16666.0	3791.4	1627.1	1657.2	1765.9	1865.5	1787.0	1714.6	1693.5	1684.4
62.5°	21716.3	16581.5	2943.2	1503.3	1569.7	1666.3	1762.9	1711.6	1636.1	1669.3	1672.3
65°	20855.9	15675.9	2209.7	1382.5	1455.0	1536.5	1657.2	1636.1	1608.9	1699.5	1702.5
67.5°	18419.9	13451.2	1684.4	1276.9	1337.3	1436.9	1624.0	1711.6	1717.6	1832.3	1820.3
70°	13937.2	10049.1	1319.2	1177.3	1246.7	1436.9	1729.7	1768.9	1696.5	1802.1	1778.0
72.5°	9635.6	6632.0	1122.9	1089.7	1135.0	1370.5	1726.7	1726.7	1648.2	1648.2	1602.9
75°	5986.0	3900.1	978.0	978.0	978.0	1198.4	1678.4	1590.8	1452.0	1388.6	1352.4
77.5°	2955.3	1895.7	821.1	851.3	818.1	1002.2	1370.5	1301.0	1216.5	1150.1	1126.0
80°	1261.8	947.9	664.1	697.3	658.1	754.7	1086.7	1071.6	990.1	902.6	875.4
82.5°	579.6	489.0	531.3	546.4	480.0	567.5	793.9	793.9	748.6	627.9	582.6
85°	247.5	259.6	368.3	368.3	301.9	320.0	425.6	404.5	362.2	295.8	271.7
87.5°	84.5	126.8	187.2	163.0	63.4	27.2	15.1	6.0	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)