

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: P641002

Luminaire Tested: GWS-SA5F-722-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-722-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

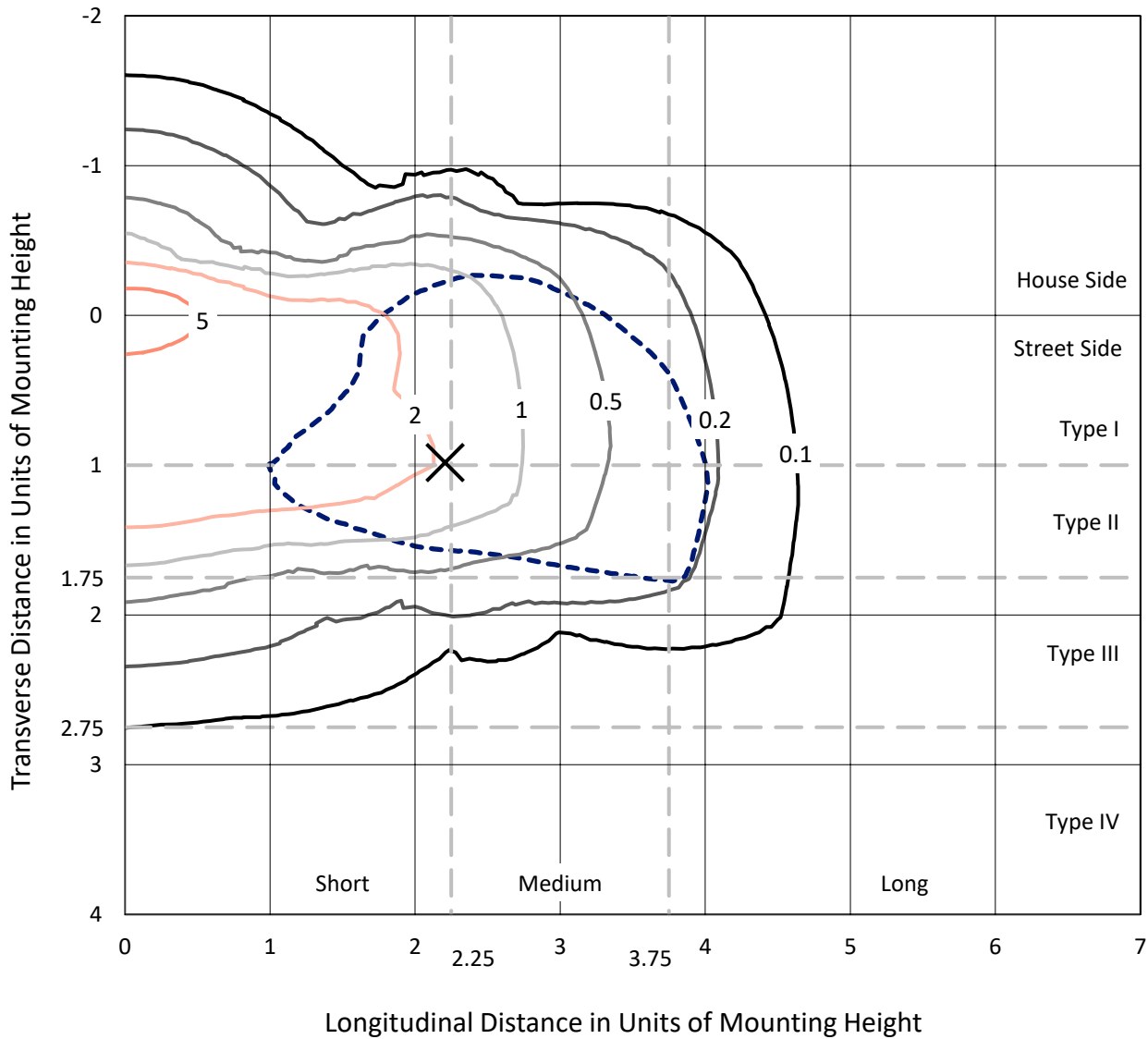
Lumens per Lamp: N/A  
Luminaire Lumens: 30212 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

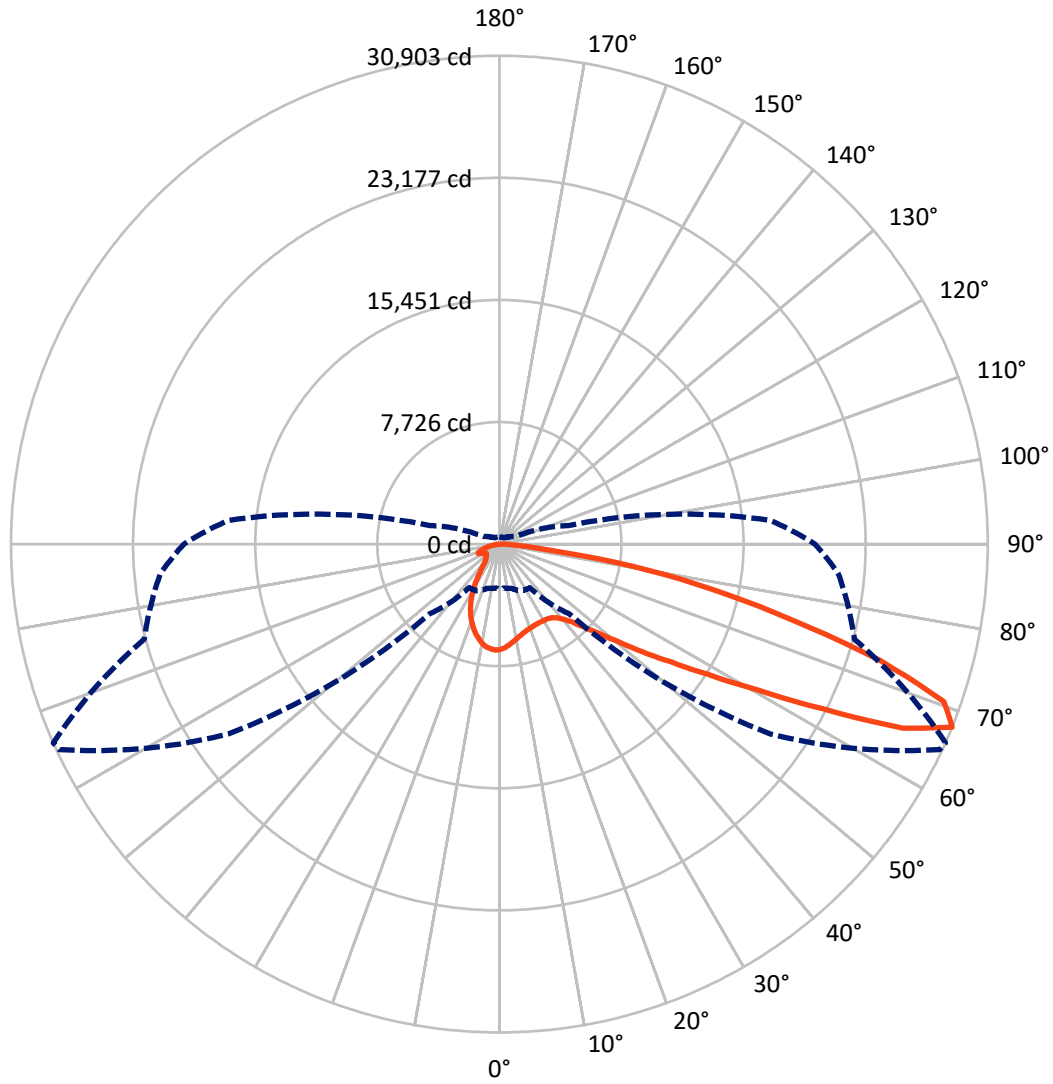
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6130.7	0.0	6130.7
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	24081.3	0.0	24081.3
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	30212.0	0.0	30212.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.9	1.9
10°-20°	1439.9	4.8
20°-30°	1979.2	6.6
30°-40°	2705.9	9.0
40°-50°	4100.2	13.6
50°-60°	6373.9	21.1
60°-70°	7760.0	25.7
70°-80°	4727.0	15.6
80°-90°	539.9	1.8
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°	30212.0	100.0
0°-180°	30212.0	100.0

**Coefficient of Utilization**



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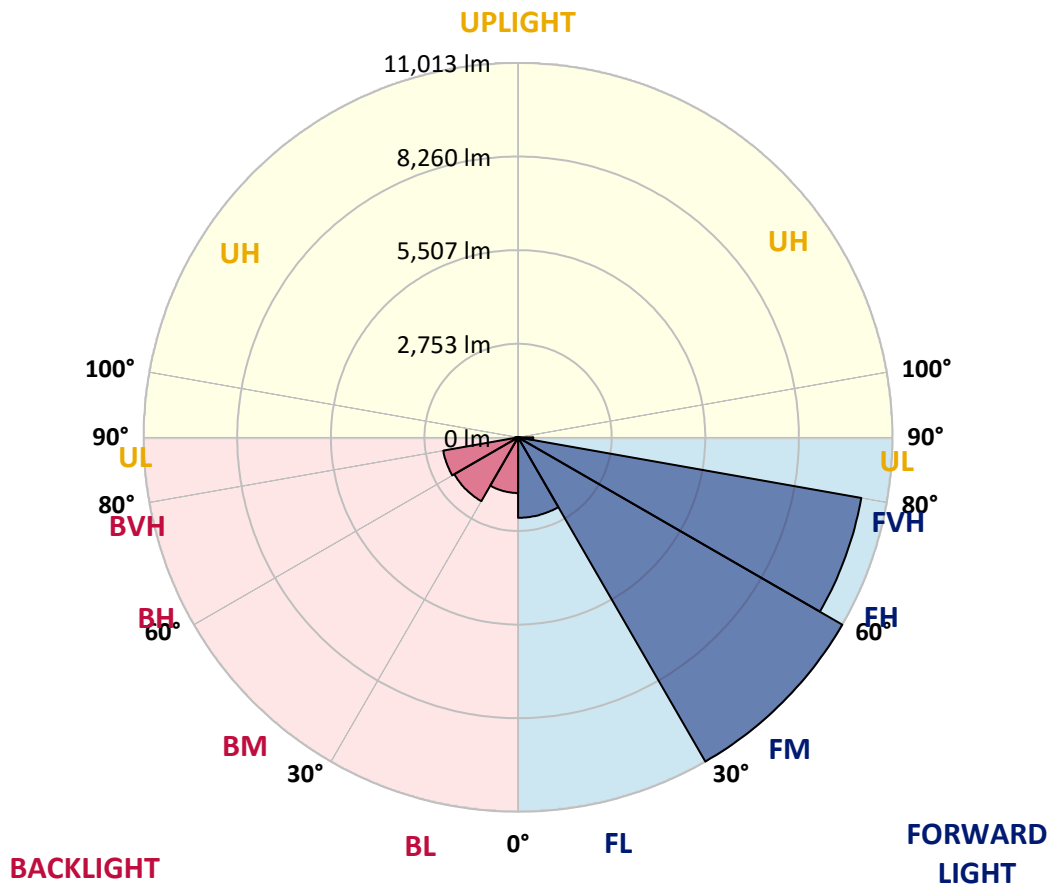
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2367.2	7.8			
FM (30°-60°)	11013.4	36.5			
FH (60°-80°)	10251.7	33.9			G4/12000
FVH (80°-90°)	448.9	1.5			G3/500
BL (0°-30°)	1637.8	5.4	B3/2500		
BM (30°-60°)	2166.5	7.2	B2/2500		
BH (60°-80°)	2235.4	7.4	B3/2500		G3/2500
BVH (80°-90°)	91.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0
2.5°	6252.8	6274.9	6261.6	6345.4	6349.8	6455.6	6515.1	6565.8	6570.2	6636.3	6680.4
5°	5825.2	5838.5	5838.5	5917.8	5970.7	6111.8	6248.4	6393.9	6404.9	6563.6	6684.8
7.5°	5479.2	5492.4	5483.6	5589.4	5657.7	5814.2	5988.3	6210.9	6233.0	6488.7	6700.2
10°	5208.1	5203.7	5225.7	5322.7	5410.9	5598.2	5792.2	6045.6	6078.7	6402.7	6717.9
12.5°	5023.0	5027.4	5040.6	5142.0	5236.8	5421.9	5622.5	5898.0	5933.2	6303.5	6709.1
15°	4934.8	4926.0	4937.0	5029.6	5120.0	5283.0	5490.2	5774.5	5809.8	6215.4	6711.3
17.5°	4915.0	4908.4	4906.2	4972.3	5040.6	5192.7	5391.0	5679.8	5717.2	6158.0	6724.5
20°	4976.7	4967.9	4943.6	4972.3	5000.9	5128.8	5320.5	5611.4	5653.3	6120.6	6750.9
22.5°	5146.4	5131.0	5093.5	5058.2	5020.8	5097.9	5276.4	5560.8	5602.6	6096.3	6777.4
25°	5404.3	5391.0	5351.4	5272.0	5135.4	5122.2	5267.6	5538.7	5580.6	6078.7	6788.4
27.5°	5759.1	5739.3	5699.6	5585.0	5362.4	5212.5	5300.7	5536.5	5576.2	6058.9	6777.4
30°	6180.1	6166.9	6144.8	6006.0	5708.4	5404.3	5375.6	5554.1	5585.0	6047.8	6755.3
32.5°	6607.7	6594.4	6612.1	6546.0	6180.1	5721.7	5538.7	5602.6	5624.7	6045.6	6735.5
35°	6984.6	7000.0	7127.8	7138.8	6779.6	6151.4	5796.6	5715.0	5719.4	6089.7	6744.3
37.5°	7379.1	7438.6	7606.1	7749.4	7449.6	6720.1	6180.1	5926.6	5922.2	6202.1	6799.4
40°	7901.4	7927.9	8141.7	8410.6	8223.2	7500.3	6724.5	6272.7	6241.8	6431.3	6947.1
42.5°	8410.6	8474.5	8816.1	9124.7	9063.0	8379.7	7409.9	6790.6	6735.5	6836.9	7251.2
45°	9058.5	9120.3	9503.8	9900.5	10012.9	9373.7	8287.1	7526.7	7471.6	7447.4	7808.9
47.5°	9706.5	9770.4	10114.3	10687.3	11081.8	10616.8	9428.8	8498.7	8408.4	8313.6	8650.8
50°	10142.9	10217.9	10546.3	11233.9	12159.6	12168.4	10782.1	9772.7	9658.0	9508.2	9836.6
52.5°	10127.5	10176.0	10489.0	11282.4	12935.4	13951.5	12593.8	11394.8	11302.2	10976.0	11262.6
55°	9331.8	9404.6	9719.8	10711.6	13019.2	15642.0	15256.3	13307.9	13142.6	12558.5	12873.7
57.5°	7733.9	7795.6	8113.0	9336.3	12276.4	16508.2	18637.2	15745.6	15518.5	14282.1	14645.8
60°	5838.5	5763.5	5913.4	6984.6	10500.0	16530.2	21621.5	19051.6	18672.5	16124.7	16428.8
62.5°	4381.6	4306.7	4339.7	4641.7	7119.0	15194.6	23323.0	23574.3	22948.3	18205.3	18145.7
65°	3462.5	3420.6	3515.4	3722.6	4150.2	11571.1	23336.2	28465.0	28070.5	20616.5	19906.8
67.5°	2821.2	2794.7	2891.7	3275.2	3365.5	6217.6	20925.0	30748.4	30902.6	23256.9	21539.9
70°	2272.4	2232.7	2384.8	2889.5	3129.7	3762.3	14989.6	29584.6	29833.7	24830.6	21079.3
72.5°	1569.3	1571.5	1648.6	2340.7	3021.7	3248.7	8478.9	24634.4	25174.4	23404.6	18531.4
75°	1057.9	1066.7	1088.8	1545.0	2783.7	3151.8	4518.3	18650.5	19031.8	19344.7	15318.0
77.5°	639.2	643.6	694.3	934.5	1919.7	2942.4	3061.4	13519.5	13819.2	12752.5	9494.9
80°	370.3	385.7	432.0	625.9	1296.0	2210.6	2369.3	8289.3	8628.8	5668.8	3017.3
82.5°	163.1	174.1	235.8	363.7	756.0	1880.0	1849.2	3275.2	3226.7	1580.3	1046.9
85°	28.7	35.3	50.7	114.6	277.7	991.8	1434.8	1445.8	1359.9	599.5	434.2
87.5°	0.0	0.0	0.0	0.0	0.0	6.6	216.0	387.9	385.7	169.7	149.9
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°	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0
2.5°	6709.1	6649.5	6702.4	6709.1	6698.0	6689.2	6623.1	6565.8	6559.2	6497.5	6497.5
5°	6733.3	6678.2	6704.6	6654.0	6574.6	6493.1	6352.0	6255.0	6210.9	6131.6	6131.6
7.5°	6766.4	6709.1	6678.2	6552.6	6367.4	6188.9	5961.9	5772.3	5695.2	5582.8	5578.4
10°	6797.2	6724.5	6618.7	6374.0	6078.7	5794.4	5463.8	5194.9	5012.0	4877.5	4877.5
12.5°	6795.0	6700.2	6490.9	6129.4	5721.7	5309.5	4868.7	4463.2	4220.7	4011.3	3998.1
15°	6790.6	6660.6	6327.8	5845.1	5305.1	4734.2	4134.8	3605.8	3246.5	3041.6	3023.9
17.5°	6786.2	6609.9	6144.8	5521.1	4798.2	4020.1	3228.9	2655.9	2356.1	2230.5	2234.9
20°	6786.2	6552.6	5948.7	5148.6	4214.1	3165.0	2369.3	1952.8	1877.8	1884.4	1891.1
22.5°	6766.4	6482.0	5730.5	4743.1	3563.9	2327.5	1747.8	1606.7	1646.4	1708.1	1716.9
25°	6720.1	6365.2	5477.0	4293.4	2790.3	1694.9	1426.0	1399.6	1472.3	1549.4	1571.5
27.5°	6647.3	6230.8	5192.7	3766.7	2054.2	1362.1	1254.1	1251.9	1309.2	1366.5	1386.3
30°	6570.2	6080.9	4892.9	3180.4	1487.7	1185.8	1143.9	1143.9	1172.5	1207.8	1203.4
32.5°	6479.8	5928.8	4571.1	2569.9	1212.2	1086.6	1073.4	1066.7	1071.2	1084.4	1084.4
35°	6402.7	5794.4	4240.5	1924.1	1086.6	1031.5	1018.3	1002.8	996.2	987.4	991.8
37.5°	6374.0	5688.6	3898.9	1450.2	1024.9	991.8	969.8	947.7	932.3	927.9	925.7
40°	6420.3	5644.5	3557.3	1194.6	980.8	949.9	925.7	897.0	883.8	883.8	883.8
42.5°	6601.1	5677.6	3209.1	1080.0	949.9	914.7	879.4	853.0	848.5	853.0	855.2
45°	6931.7	5805.4	2847.6	1022.7	923.5	879.4	837.5	817.7	817.7	822.1	822.1
47.5°	7522.3	6140.4	2490.5	987.4	897.0	850.8	806.7	786.8	784.6	789.0	789.0
50°	8545.0	6744.3	2168.8	963.2	877.2	828.7	784.6	758.2	751.6	749.4	749.4
52.5°	9834.4	7791.2	1963.8	945.5	853.0	804.5	760.4	725.1	711.9	705.3	705.3
55°	11392.6	9186.4	1963.8	932.3	822.1	775.8	725.1	689.9	670.0	661.2	661.2
57.5°	13158.0	10810.7	2303.2	921.3	797.9	742.8	687.7	652.4	630.4	617.1	617.1
60°	14954.3	12527.7	3142.9	905.9	775.8	700.9	645.8	612.7	584.1	568.6	566.4
62.5°	16816.7	14418.7	4249.4	914.7	760.4	661.2	601.7	564.2	540.0	524.6	522.4
65°	18522.6	16219.4	5216.9	983.0	762.6	625.9	551.0	517.9	498.1	478.3	476.1
67.5°	19970.7	17213.4	4538.1	1121.8	808.9	584.1	500.3	467.3	449.6	436.4	434.2
70°	18956.8	15697.1	2574.3	1207.8	872.8	540.0	443.0	421.0	403.3	394.5	392.3
72.5°	16210.6	13290.3	1721.3	1066.7	795.7	482.7	390.1	372.5	359.3	348.2	346.0
75°	13131.6	10539.7	1315.8	875.0	619.3	392.3	335.0	321.8	308.6	297.5	295.3
77.5°	7769.2	6089.7	969.8	692.1	436.4	306.4	277.7	266.7	253.5	244.6	242.4
80°	2479.5	2115.9	614.9	476.1	288.7	235.8	213.8	205.0	191.8	180.7	178.5
82.5°	945.5	817.7	326.2	242.4	191.8	160.9	143.3	134.4	125.6	114.6	112.4
85°	418.8	392.3	180.7	130.0	103.6	79.3	70.5	66.1	55.1	46.3	44.1
87.5°	147.7	147.7	77.1	37.5	22.0	11.0	6.6	2.2	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)