

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: P641033

Luminaire Tested: GWS-SA5F-722-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31254.5 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

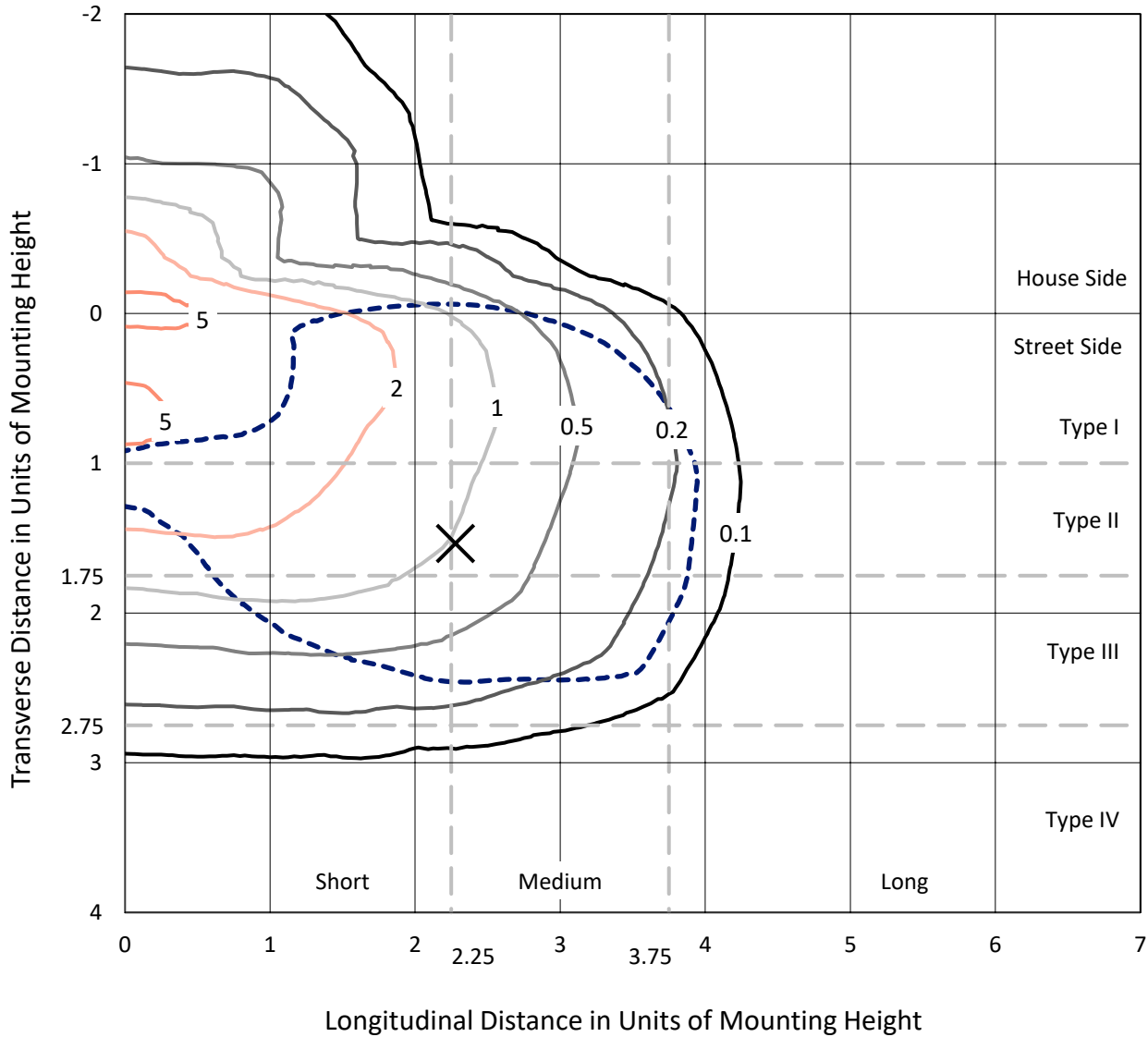
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

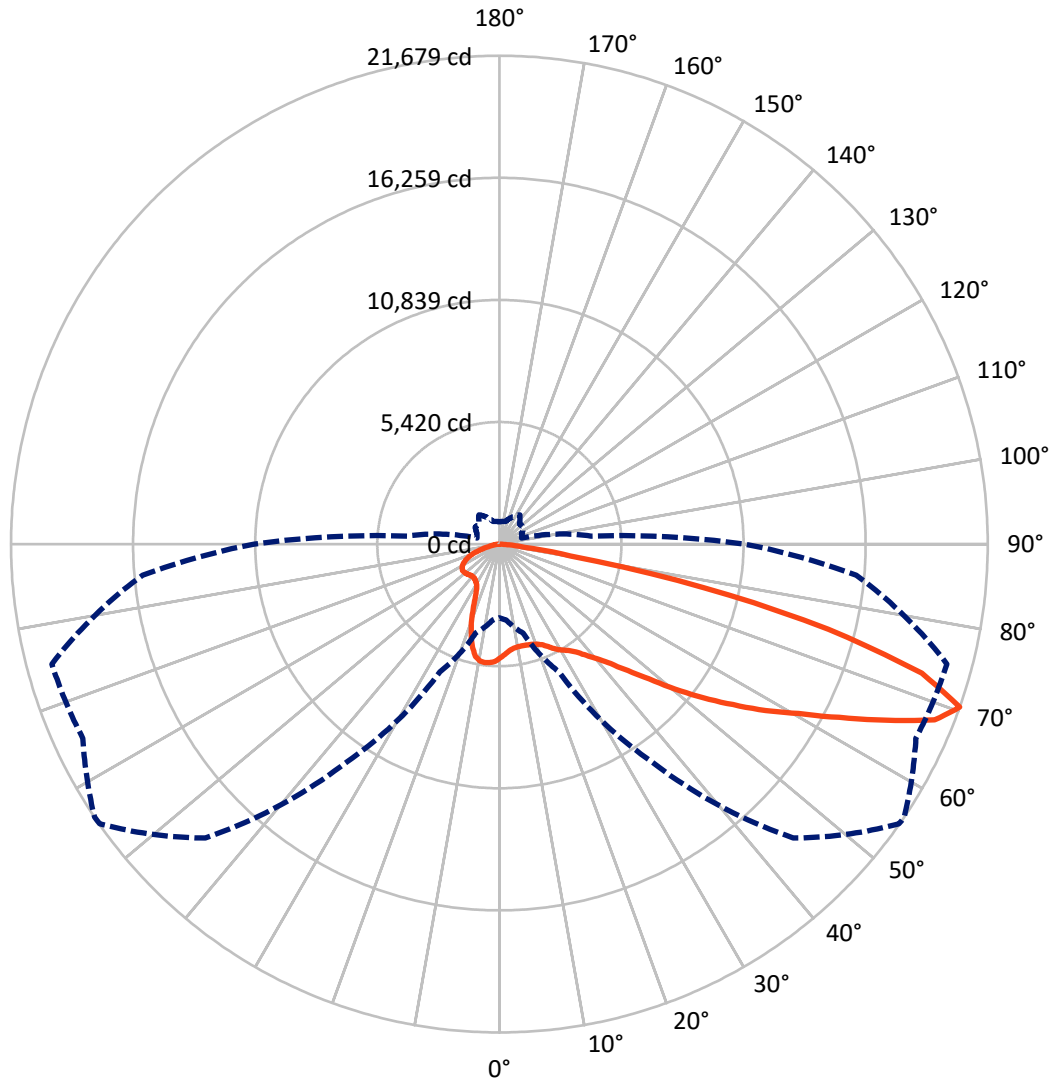
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6008.7	0.0	6008.7
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	25245.8	0.0	25245.8
	% Fixture	80.8	0.0	80.8
Total	Lumens	31254.5	0.0	31254.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.9	1.5
10°-20°	1265.0	4.0
20°-30°	2091.3	6.7
30°-40°	3126.8	10.0
40°-50°	4653.1	14.9
50°-60°	6615.4	21.2
60°-70°	8193.3	26.2
70°-80°	4524.1	14.5
80°-90°	318.6	1.0
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°	31254.5	100.0
0°-180°	31254.5	100.0

Coefficient of Utilization



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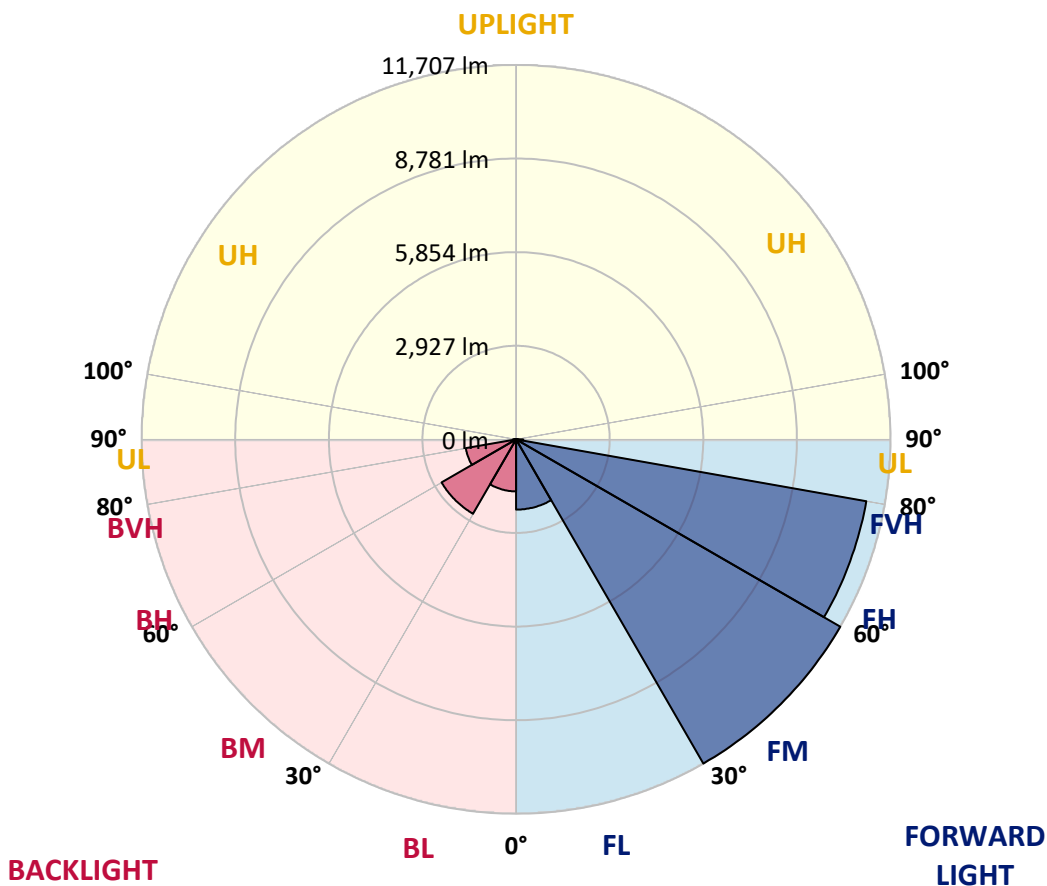
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.5	7.0			
FM (30°-60°)	11707.5	37.5			
FH (60°-80°)	11120.4	35.6			G4/12000
FVH (80°-90°)	221.4	0.7			G2/225
BL (0°-30°)	1626.6	5.2	B3/2500		
BM (30°-60°)	2687.8	8.6	B3/5000		
BH (60°-80°)	1597.1	5.1	B3/2500		G3/2500
BVH (80°-90°)	97.2	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0
2.5°	4721.0	4694.5	4725.4	4740.8	4780.5	4837.8	4888.5	4890.7	4917.1	4981.0	5042.8
5°	4507.2	4494.0	4502.8	4549.1	4590.9	4663.7	4740.8	4747.4	4822.4	4948.0	5071.4
7.5°	4341.9	4324.2	4357.3	4416.8	4469.7	4551.3	4652.6	4661.5	4767.3	4956.8	5146.3
10°	4103.8	4090.6	4152.3	4231.7	4346.3	4480.7	4615.2	4626.2	4765.0	5014.1	5278.6
12.5°	4000.3	4000.3	4026.7	4101.6	4227.3	4405.8	4608.6	4626.2	4800.3	5102.3	5448.3
15°	4161.2	4172.2	4150.1	4145.7	4196.4	4366.1	4617.4	4643.8	4866.4	5192.6	5615.8
17.5°	4485.1	4496.2	4438.9	4348.5	4297.8	4403.6	4650.4	4679.1	4937.0	5291.8	5796.5
20°	4939.2	4952.4	4826.8	4687.9	4513.8	4511.6	4714.4	4740.8	5027.3	5399.8	5988.3
22.5°	5470.3	5479.1	5320.5	5100.1	4833.4	4712.2	4824.6	4851.0	5144.1	5549.7	6195.4
25°	6085.2	6111.7	5919.9	5600.4	5238.9	4987.7	5007.5	5038.3	5353.5	5750.2	6440.1
27.5°	6742.0	6775.1	6554.7	6202.1	5704.0	5291.8	5243.3	5269.8	5576.1	5873.7	6570.1
30°	7414.3	7438.5	7218.1	6814.8	6204.3	5635.6	5441.7	5457.1	5673.1	5933.2	6702.4
32.5°	8161.4	8141.6	7930.0	7464.9	6781.7	6047.8	5626.8	5622.4	5781.1	6052.2	6891.9
35°	8862.3	8890.9	8666.1	8152.6	7416.5	6556.9	5904.5	5886.9	6010.3	6246.1	7158.6
37.5°	9710.8	9702.0	9433.1	8877.7	8053.4	7044.0	6294.6	6263.8	6307.8	6548.1	7531.1
40°	10316.9	10378.6	10204.5	9686.6	8798.4	7643.5	6750.9	6682.5	6693.5	6920.6	8029.2
42.5°	10812.8	10870.1	10887.8	10557.2	9651.3	8384.0	7319.5	7251.2	7257.8	7579.6	8641.9
45°	11194.1	11271.3	11520.3	11423.3	10612.3	9239.2	8088.7	8018.2	8022.6	8379.6	9382.4
47.5°	11350.6	11434.4	11939.1	12170.5	11632.7	10261.8	9045.2	8941.6	8957.1	9351.6	10228.8
50°	11299.9	11412.3	12095.6	12745.7	12487.9	11302.1	10189.1	10116.4	10056.9	10629.9	11147.8
52.5°	10863.5	10986.9	12080.1	13111.6	13186.5	12285.1	11370.4	11328.6	11315.3	11987.6	12174.9
55°	9578.6	9785.8	11549.0	13208.6	13733.1	13210.8	12651.0	12580.4	12648.8	13442.2	13213.0
57.5°	8866.7	9021.0	10508.7	13100.6	14180.5	14092.4	13929.3	13935.9	14013.0	15022.5	14471.5
60°	8461.2	8641.9	9931.2	12805.2	14610.3	15163.5	15267.1	15267.1	15406.0	16726.2	15749.8
62.5°	7923.4	8106.3	9391.2	12236.6	15007.0	16424.2	16948.8	16942.2	16997.3	18553.3	16999.5
65°	6832.4	7002.1	8306.9	11339.6	15201.0	17812.7	18859.6	18839.8	18729.6	20179.8	17826.0
67.5°	4961.2	5122.1	6362.9	9633.7	14502.3	18932.4	20827.8	20836.6	20177.6	21204.7	17870.0
70°	3270.7	3380.9	4090.6	6257.2	11793.6	18449.7	21652.1	21678.5	20400.2	20565.5	15904.1
72.5°	2040.9	2118.0	2554.4	3731.4	6969.0	14603.7	19536.3	19609.0	18352.7	18072.8	13067.5
75°	1355.5	1408.4	1699.3	2175.3	3224.5	7903.5	14850.6	15084.2	14709.5	14167.3	9104.7
77.5°	815.5	859.6	1082.2	1381.9	1428.2	3087.8	8668.3	9272.2	9325.1	7396.6	3812.9
80°	372.5	423.2	597.3	789.0	760.4	1075.6	3056.9	3198.0	3773.2	2349.5	1203.4
82.5°	220.4	242.4	396.7	392.3	324.0	522.3	1099.8	1128.4	958.7	859.6	513.5
85°	88.2	103.6	167.5	147.7	119.0	169.7	414.4	434.2	416.6	374.7	189.5
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	37.5	39.7	57.3	103.6	57.3
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°	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0
2.5°	5082.4	5069.2	5135.3	5186.0	5208.1	5230.1	5210.3	5203.6	5203.6	5159.6	5137.5
5°	5137.5	5144.1	5234.5	5276.4	5276.4	5258.7	5205.8	5168.4	5155.2	5097.9	5082.4
7.5°	5241.1	5269.8	5353.5	5351.3	5289.6	5192.6	5060.4	4959.0	4866.4	4826.8	4802.5
10°	5410.8	5448.3	5505.6	5413.0	5241.1	4985.4	4705.5	4485.1	4352.9	4247.1	4247.1
12.5°	5604.8	5640.0	5629.0	5415.2	5060.4	4582.1	4178.8	3925.3	3740.2	3643.2	3643.2
15°	5798.7	5827.4	5708.4	5313.8	4683.5	4046.5	3605.7	3301.6	3140.7	3050.3	3050.3
17.5°	5994.9	5992.7	5741.4	5080.2	4192.0	3453.7	3021.7	2785.9	2730.8	2715.3	2713.1
20°	6184.4	6133.7	5699.5	4690.1	3621.2	2856.4	2583.1	2598.5	2680.1	2715.3	2719.7
22.5°	6398.2	6272.6	5576.1	4192.0	2973.2	2442.0	2459.7	2587.5	2706.5	2759.4	2766.0
25°	6616.4	6391.6	5368.9	3607.9	2431.0	2290.0	2426.6	2569.9	2704.3	2772.6	2779.2
27.5°	6704.6	6391.6	5016.3	2931.3	2142.3	2226.0	2375.9	2514.8	2655.8	2735.2	2750.6
30°	6777.3	6336.5	4522.6	2320.8	2023.3	2164.3	2294.4	2422.2	2561.0	2658.0	2675.7
32.5°	6878.7	6288.0	3925.3	1950.5	1968.2	2104.8	2195.2	2303.2	2428.8	2492.7	2486.1
35°	6997.7	6213.1	3204.6	1774.2	1921.9	2054.1	2118.0	2182.0	2124.7	2122.5	2129.1
37.5°	7167.4	6147.0	2576.5	1694.9	1891.0	2018.9	2071.8	1935.1	1855.8	1822.7	1809.5
40°	7412.1	6120.5	2032.1	1648.6	1886.6	2016.7	1979.2	1767.6	1659.6	1545.0	1542.8
42.5°	7720.6	6100.7	1679.4	1626.6	1902.1	2067.4	1851.4	1657.4	1434.8	1384.1	1379.7
45°	8117.3	6069.8	1503.1	1622.1	1939.5	2107.0	1838.1	1505.3	1353.3	1331.2	1331.2
47.5°	8595.6	6021.3	1423.8	1622.1	1981.4	2089.4	1798.5	1472.3	1315.8	1340.0	1355.5
50°	9144.4	5959.6	1381.9	1617.7	2023.3	2089.4	1714.7	1465.7	1307.0	1432.6	1483.3
52.5°	9730.7	5889.1	1353.3	1600.1	2051.9	2091.6	1719.1	1487.7	1315.8	1454.6	1496.5
55°	10378.6	5878.1	1313.6	1562.6	2060.7	2034.3	1730.1	1536.2	1329.0	1318.0	1320.2
57.5°	11196.3	6010.3	1284.9	1507.5	2025.5	1917.5	1752.2	1571.5	1313.6	1315.8	1331.2
60°	12051.5	6259.4	1309.2	1454.6	1952.7	1807.3	1767.6	1553.8	1238.6	1203.4	1207.8
62.5°	12778.8	6448.9	1329.0	1430.4	1847.0	1710.3	1752.2	1514.1	1196.8	1188.0	1207.8
65°	13082.9	6292.4	1280.5	1379.7	1692.7	1591.3	1719.1	1463.5	1161.5	1128.4	1130.7
67.5°	12745.7	5558.5	1185.8	1267.3	1518.6	1439.2	1666.2	1397.3	1113.0	1073.3	1064.5
70°	10887.8	4084.0	1022.7	1088.8	1307.0	1260.7	1584.7	1311.4	1035.9	1007.2	987.4
72.5°	8774.1	2891.6	848.5	866.2	1024.9	1062.3	1443.6	1203.4	947.7	866.2	837.5
75°	6107.3	1816.1	707.5	689.9	740.5	811.1	1126.2	998.4	817.7	731.7	705.3
77.5°	2627.2	932.3	553.2	544.4	493.7	562.0	864.0	833.1	685.4	586.3	570.8
80°	879.4	540.0	398.9	383.5	328.4	394.5	608.3	665.6	537.8	434.2	407.7
82.5°	440.8	313.0	253.5	229.2	220.4	249.1	359.3	414.4	372.5	299.7	253.5
85°	216.0	178.5	138.9	136.6	114.6	108.0	149.9	176.3	167.5	123.4	116.8
87.5°	79.3	70.5	44.1	35.3	22.0	15.4	8.8	8.8	6.6	6.6	6.6
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)