

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: P643013

Luminaire Tested: GWS-SA6E-722-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643013
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-SAGE-722-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33520.6 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

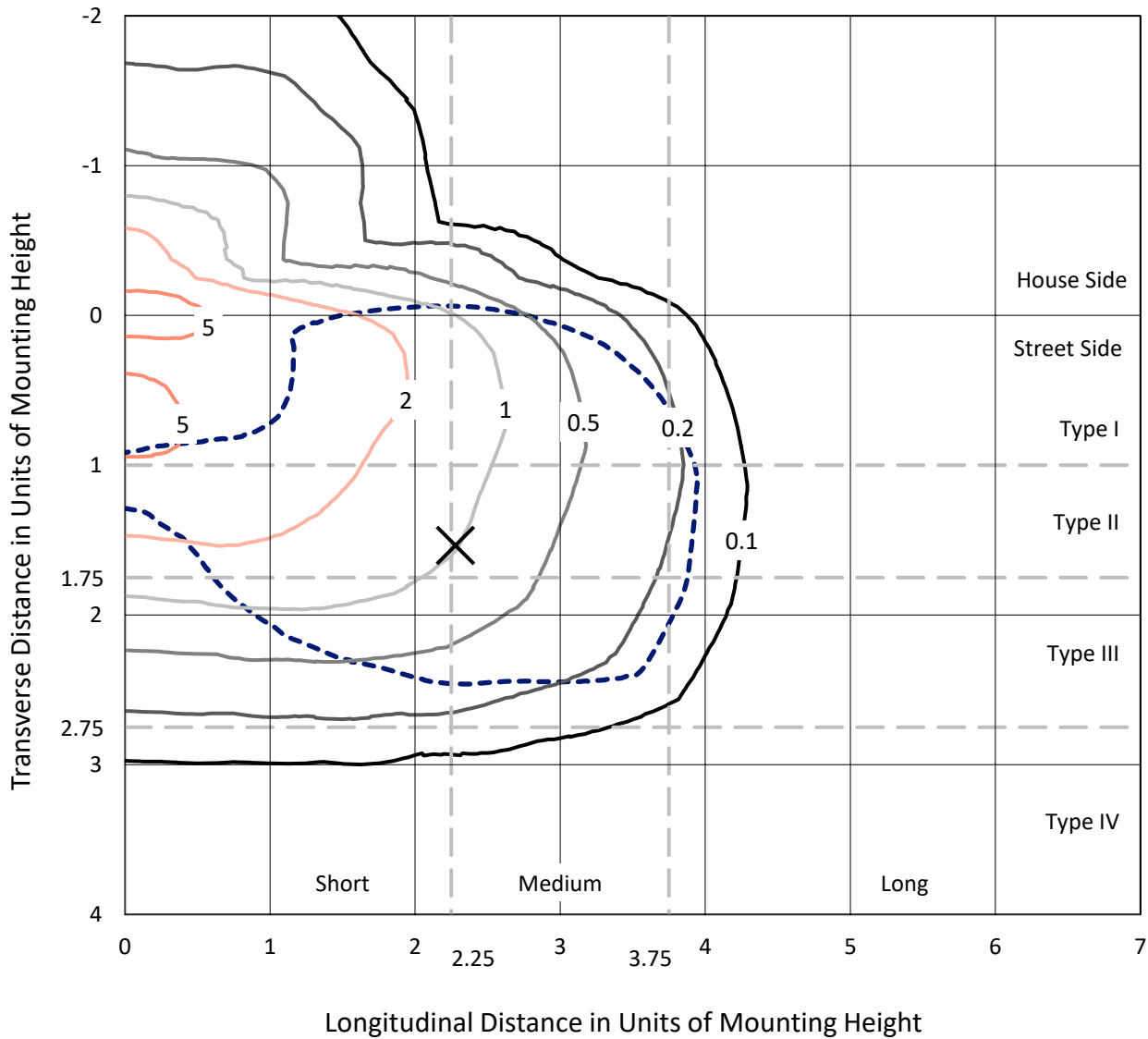
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

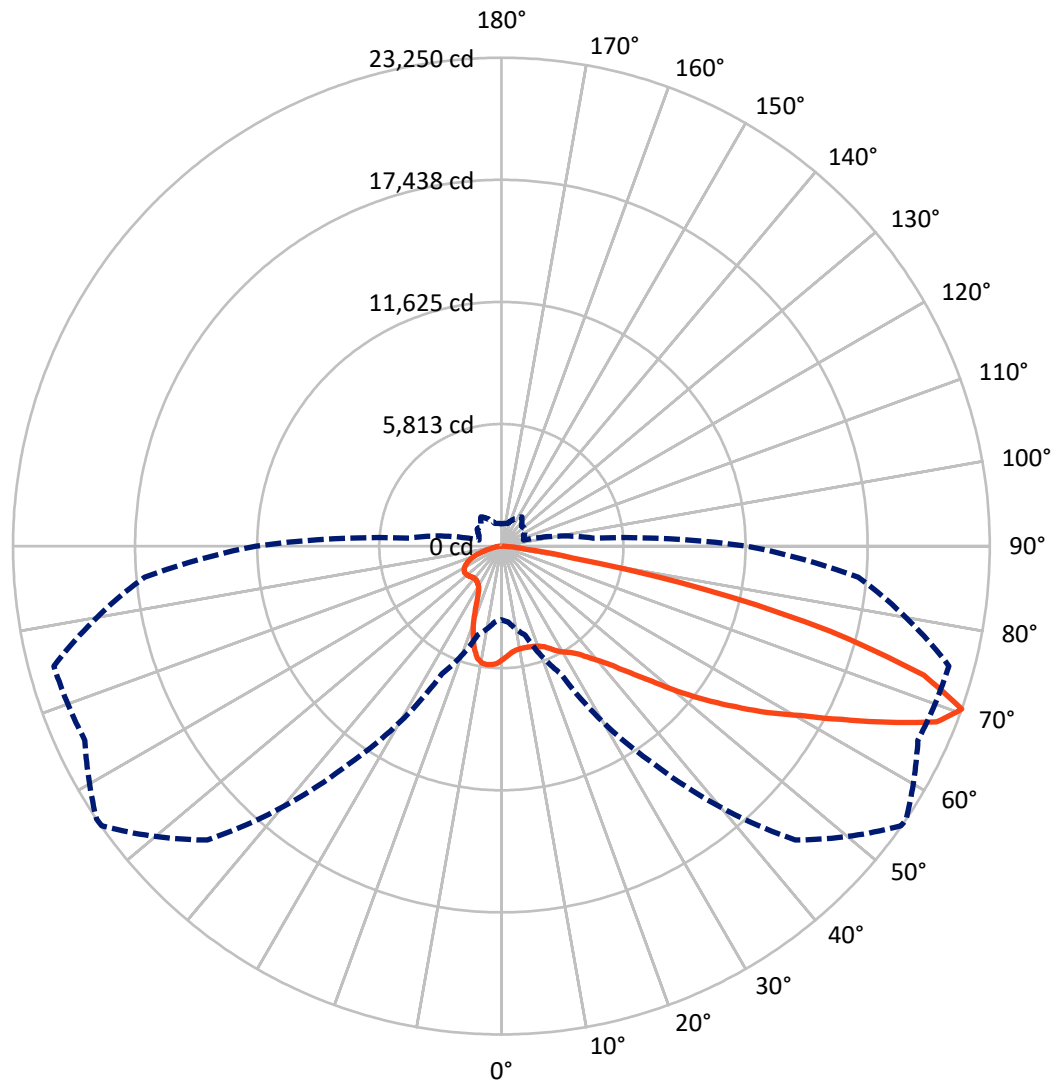
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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	6444.4	0.0	6444.4
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	27076.2	0.0	27076.2
	% Fixture	80.8	0.0	80.8
Total	Lumens	33520.6	0.0	33520.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.7	1.5
10°-20°	1356.7	4.0
20°-30°	2243.0	6.7
30°-40°	3353.5	10.0
40°-50°	4990.5	14.9
50°-60°	7095.0	21.2
60°-70°	8787.4	26.2
70°-80°	4852.1	14.5
80°-90°	341.7	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°	33520.6	100.0
0°-180°	33520.6	100.0

Coefficient of Utilization



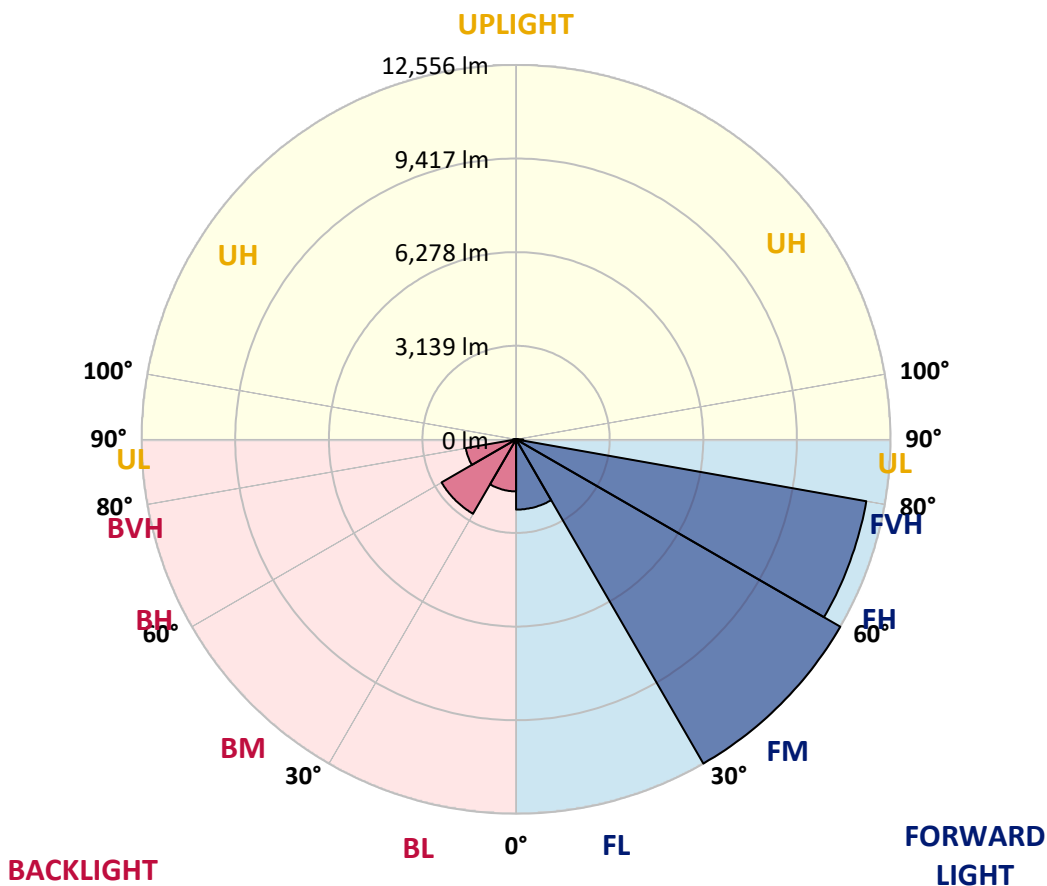
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2355.8	7.0			
FM (30°-60°)	12556.3	37.5			
FH (60°-80°)	11926.6	35.6			G4/12000
FVH (80°-90°)	237.5	0.7			G3/500
BL (0°-30°)	1744.5	5.2	B3/2500		
BM (30°-60°)	2882.7	8.6	B3/5000		
BH (60°-80°)	1712.9	5.1	B3/2500		G3/2500
BVH (80°-90°)	104.3	0.3			G2/225
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°	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7
2.5°	5063.3	5034.9	5068.0	5084.5	5127.1	5188.5	5242.9	5245.3	5273.6	5342.2	5408.4
5°	4834.0	4819.8	4829.2	4878.9	4923.8	5001.8	5084.5	5091.6	5172.0	5306.7	5439.1
7.5°	4656.7	4637.8	4673.2	4737.1	4793.8	4881.2	4990.0	4999.4	5112.9	5316.2	5519.5
10°	4401.4	4387.2	4453.4	4538.5	4661.4	4805.6	4949.8	4961.6	5110.5	5377.6	5661.3
12.5°	4290.3	4290.3	4318.7	4399.0	4533.8	4725.2	4942.7	4961.6	5148.4	5472.2	5843.3
15°	4462.9	4474.7	4451.0	4446.3	4500.7	4682.7	4952.2	4980.5	5219.3	5569.1	6023.0
17.5°	4810.3	4822.2	4760.7	4663.8	4609.4	4722.9	4987.6	5018.3	5294.9	5675.5	6216.8
20°	5297.3	5311.5	5176.7	5027.8	4841.1	4838.7	5056.2	5084.5	5391.8	5791.3	6422.4
22.5°	5867.0	5876.4	5706.2	5469.8	5183.8	5053.8	5174.4	5202.7	5517.1	5952.1	6644.6
25°	6526.5	6554.8	6349.2	6006.4	5618.8	5349.3	5370.6	5403.6	5741.7	6167.2	6907.0
27.5°	7230.9	7266.3	7029.9	6651.7	6117.5	5675.5	5623.5	5651.8	5980.4	6299.5	7046.5
30°	7951.8	7977.8	7741.4	7308.9	6654.1	6044.2	5836.2	5852.8	6084.4	6363.4	7188.3
32.5°	8753.2	8731.9	8505.0	8006.2	7273.4	6486.3	6034.8	6030.1	6200.2	6491.0	7391.6
35°	9504.8	9535.6	9294.5	8743.7	7954.2	7032.3	6332.6	6313.7	6446.1	6699.0	7677.6
37.5°	10414.9	10405.5	10117.1	9521.4	8637.3	7554.7	6751.0	6717.9	6765.2	7022.9	8077.1
40°	11065.0	11131.1	10944.4	10388.9	9436.3	8197.7	7240.3	7167.0	7178.9	7422.3	8611.3
42.5°	11596.8	11658.3	11677.2	11322.6	10351.1	8991.9	7850.2	7776.9	7784.0	8129.1	9268.5
45°	12005.7	12088.5	12355.6	12251.6	11381.7	9909.1	8675.1	8599.5	8604.2	8987.2	10062.7
47.5°	12173.6	12263.4	12804.7	13052.9	12476.1	11005.9	9701.0	9589.9	9606.5	10029.6	10970.4
50°	12119.2	12239.8	12972.5	13669.9	13393.3	12121.6	10927.9	10849.8	10786.0	11400.6	11956.1
52.5°	11651.2	11783.5	12956.0	14062.3	14142.6	13175.8	12194.8	12149.9	12135.8	12856.7	13057.6
55°	10273.1	10495.3	12386.3	14166.3	14728.8	14168.6	13568.2	13492.6	13565.9	14416.8	14171.0
57.5°	9509.6	9675.0	11270.6	14050.4	15208.7	15114.1	14939.2	14946.3	15029.0	16111.7	15520.7
60°	9074.6	9268.5	10651.3	13733.7	15669.6	16263.0	16374.0	16374.0	16523.0	17938.9	16891.7
62.5°	8497.9	8694.1	10072.2	13123.8	16095.1	17615.0	18177.6	18170.5	18229.6	19898.5	18232.0
65°	7327.8	7509.8	8909.2	12161.8	16303.1	19104.2	20227.0	20205.8	20087.6	21643.0	19118.4
67.5°	5320.9	5493.5	6824.3	10332.2	15553.8	20305.1	22337.9	22347.4	21640.6	22742.1	19165.7
70°	3507.9	3626.1	4387.2	6710.8	12648.7	19787.4	23222.0	23250.3	21879.3	22056.6	17057.2
72.5°	2188.9	2271.6	2739.6	4001.9	7474.3	15662.5	20952.7	21030.7	19683.4	19383.2	14015.0
75°	1453.7	1510.5	1822.5	2333.1	3458.2	8476.6	15927.3	16177.9	15776.0	15194.5	9764.9
77.5°	874.6	921.9	1160.6	1482.1	1531.7	3311.7	9296.8	9944.5	10001.2	7932.9	4089.4
80°	399.5	453.8	640.6	846.2	815.5	1153.5	3278.6	3429.9	4046.8	2519.8	1290.6
82.5°	236.4	260.0	425.5	420.8	347.5	560.2	1179.5	1210.3	1028.3	921.9	550.8
85°	94.6	111.1	179.6	158.4	127.6	182.0	444.4	465.7	446.8	401.8	203.3
87.5°	0.0	0.0	0.0	0.0	2.4	4.7	40.2	42.5	61.5	111.1	61.5
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°	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7	5410.7
2.5°	5450.9	5436.7	5507.7	5562.0	5585.7	5609.3	5588.0	5580.9	5580.9	5533.7	5510.0
5°	5510.0	5517.1	5614.0	5658.9	5658.9	5640.0	5583.3	5543.1	5528.9	5467.5	5450.9
7.5°	5621.1	5651.8	5741.7	5739.3	5673.1	5569.1	5427.3	5318.6	5219.3	5176.7	5150.7
10°	5803.1	5843.3	5904.8	5805.5	5621.1	5346.9	5046.7	4810.3	4668.5	4555.0	4555.0
12.5°	6011.1	6049.0	6037.1	5807.9	5427.3	4914.3	4481.8	4209.9	4011.4	3907.4	3907.4
15°	6219.2	6249.9	6122.2	5699.1	5023.1	4339.9	3867.2	3541.0	3368.4	3271.5	3271.5
17.5°	6429.5	6427.2	6157.7	5448.6	4495.9	3704.1	3240.8	2987.8	2928.7	2912.2	2909.8
20°	6632.8	6578.5	6112.8	5030.2	3883.7	3063.5	2770.4	2786.9	2874.4	2912.2	2916.9
22.5°	6862.1	6727.4	5980.4	4495.9	3188.8	2619.1	2638.0	2775.1	2902.7	2959.5	2966.6
25°	7096.1	6855.0	5758.2	3869.5	2607.3	2456.0	2602.5	2756.2	2900.4	2973.7	2980.8
27.5°	7190.7	6855.0	5380.0	3143.9	2297.6	2387.4	2548.2	2697.1	2848.4	2933.5	2950.0
30°	7268.7	6795.9	4850.5	2489.1	2170.0	2321.3	2460.7	2597.8	2746.7	2850.7	2869.7
32.5°	7377.4	6743.9	4209.9	2092.0	2110.9	2257.4	2354.3	2470.2	2604.9	2673.5	2666.4
35°	7505.1	6663.6	3437.0	1902.9	2061.2	2203.1	2271.6	2340.2	2278.7	2276.3	2283.4
37.5°	7687.1	6592.6	2763.3	1817.8	2028.1	2165.2	2222.0	2075.4	1990.3	1954.9	1940.7
40°	7949.5	6564.3	2179.4	1768.1	2023.4	2162.9	2122.7	1895.8	1779.9	1657.0	1654.7
42.5°	8280.4	6543.0	1801.2	1744.5	2040.0	2217.2	1985.6	1777.6	1538.8	1484.5	1479.7
45°	8705.9	6509.9	1612.1	1739.8	2080.1	2259.8	1971.4	1614.5	1451.4	1427.7	1427.7
47.5°	9218.8	6457.9	1527.0	1739.8	2125.1	2240.9	1928.9	1579.0	1411.2	1437.2	1453.7
50°	9807.4	6391.7	1482.1	1735.0	2170.0	2240.9	1839.0	1571.9	1401.7	1536.5	1590.8
52.5°	10436.2	6316.1	1451.4	1716.1	2200.7	2243.2	1843.8	1595.6	1411.2	1560.1	1605.0
55°	11131.1	6304.3	1408.8	1675.9	2210.2	2181.8	1855.6	1647.6	1425.4	1413.6	1415.9
57.5°	12008.1	6446.1	1378.1	1616.8	2172.3	2056.5	1879.2	1685.4	1408.8	1411.2	1427.7
60°	12925.3	6713.2	1404.1	1560.1	2094.3	1938.3	1895.8	1666.5	1328.5	1290.6	1295.4
62.5°	13705.3	6916.5	1425.4	1534.1	1980.9	1834.3	1879.2	1623.9	1283.5	1274.1	1295.4
65°	14031.5	6748.7	1373.4	1479.7	1815.4	1706.7	1843.8	1569.6	1245.7	1210.3	1212.6
67.5°	13669.9	5961.5	1271.7	1359.2	1628.7	1543.6	1787.0	1498.6	1193.7	1151.2	1141.7
70°	11677.2	4380.1	1096.8	1167.7	1401.7	1352.1	1699.6	1406.5	1111.0	1080.3	1059.0
72.5°	9410.3	3101.3	910.1	929.0	1099.2	1139.4	1548.3	1290.6	1016.4	929.0	898.2
75°	6550.1	1947.8	758.8	739.9	794.2	869.9	1207.9	1070.8	877.0	784.8	756.4
77.5°	2817.7	999.9	593.3	583.9	529.5	602.8	926.6	893.5	735.1	628.8	612.2
80°	943.2	579.1	427.8	411.3	352.2	423.1	652.4	713.9	576.8	465.7	437.3
82.5°	472.8	335.7	271.8	245.8	236.4	267.1	385.3	444.4	399.5	321.5	271.8
85°	231.7	191.5	148.9	146.6	122.9	115.8	160.7	189.1	179.6	132.4	125.3
87.5°	85.1	75.6	47.3	37.8	23.6	16.5	9.5	9.5	7.1	7.1	7.1
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)