

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: P641666

Luminaire Tested: GWS-SA6B-735-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-735-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

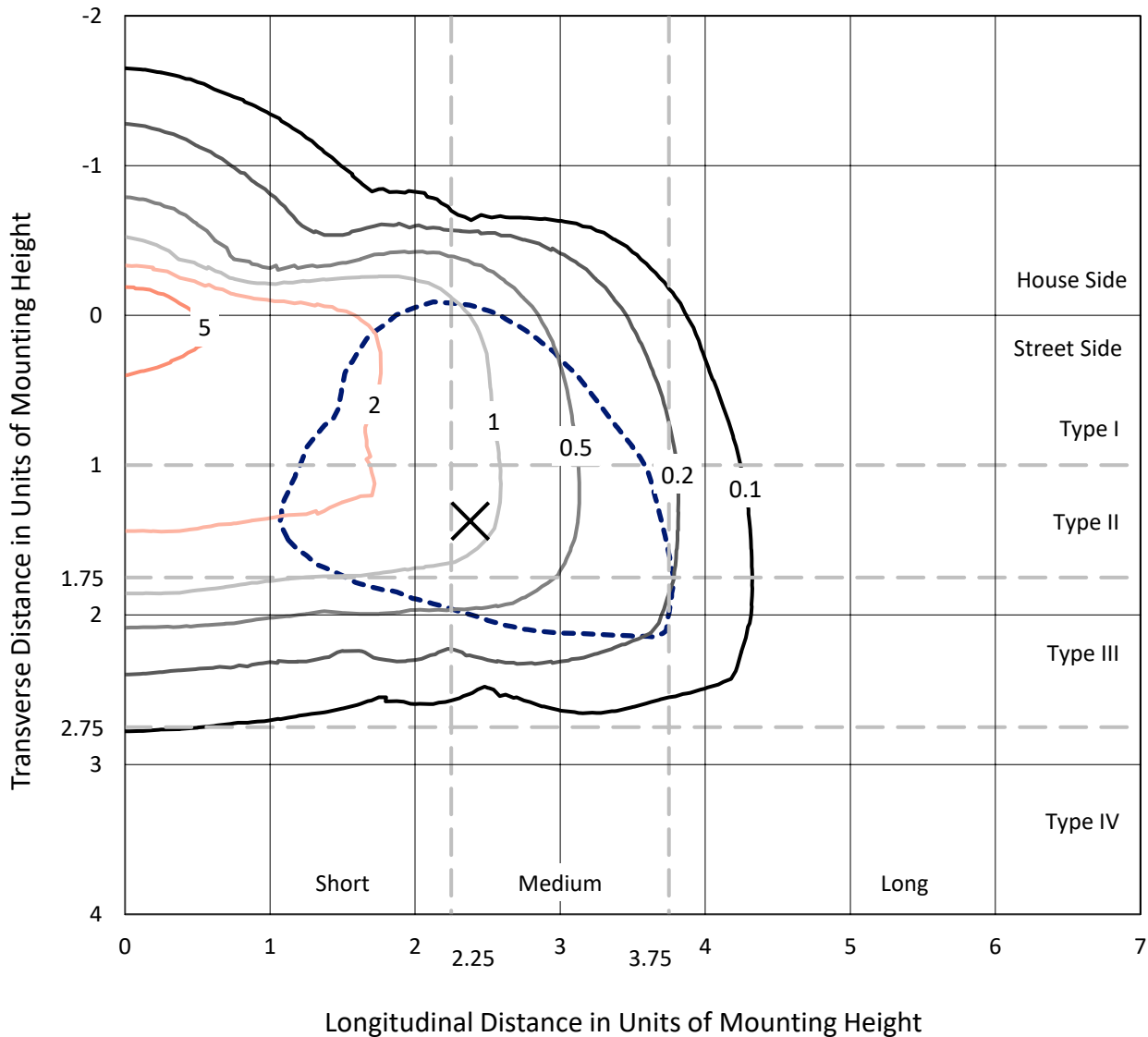
Lumens per Lamp: N/A  
Luminaire Lumens: 20461 lumens  
Efficiency: N/A  
Efficacy: 147.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

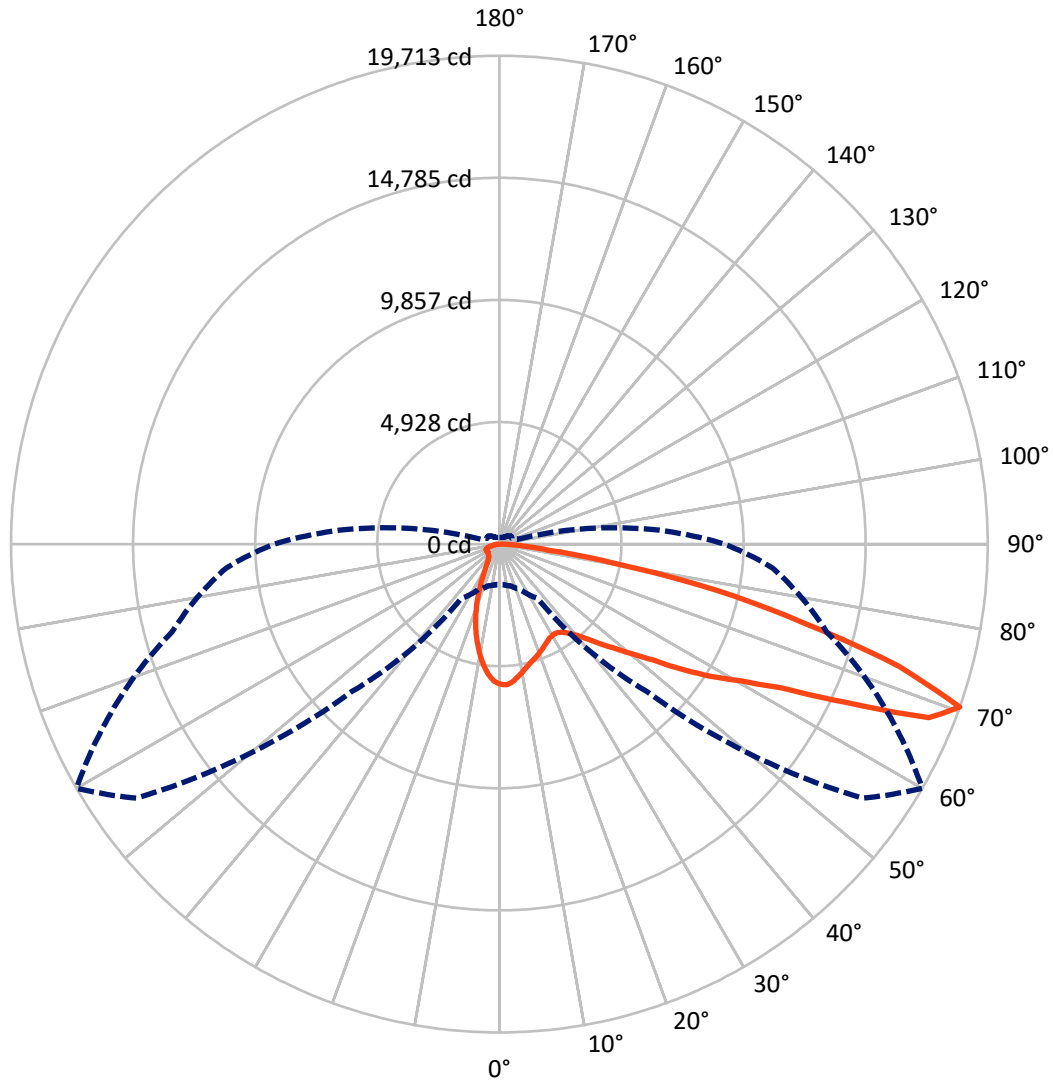
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3499.3	0.0	3499.3
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	16961.7	0.0	16961.7
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	20461.0	0.0	20461.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.0	2.4
10°-20°	1093.3	5.3
20°-30°	1400.2	6.8
30°-40°	1840.2	9.0
40°-50°	2669.8	13.0
50°-60°	4165.6	20.4
60°-70°	5453.5	26.7
70°-80°	3015.6	14.7
80°-90°	334.7	1.6
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°	20461.0	100.0
0°-180°	20461.0	100.0

**Coefficient of Utilization**



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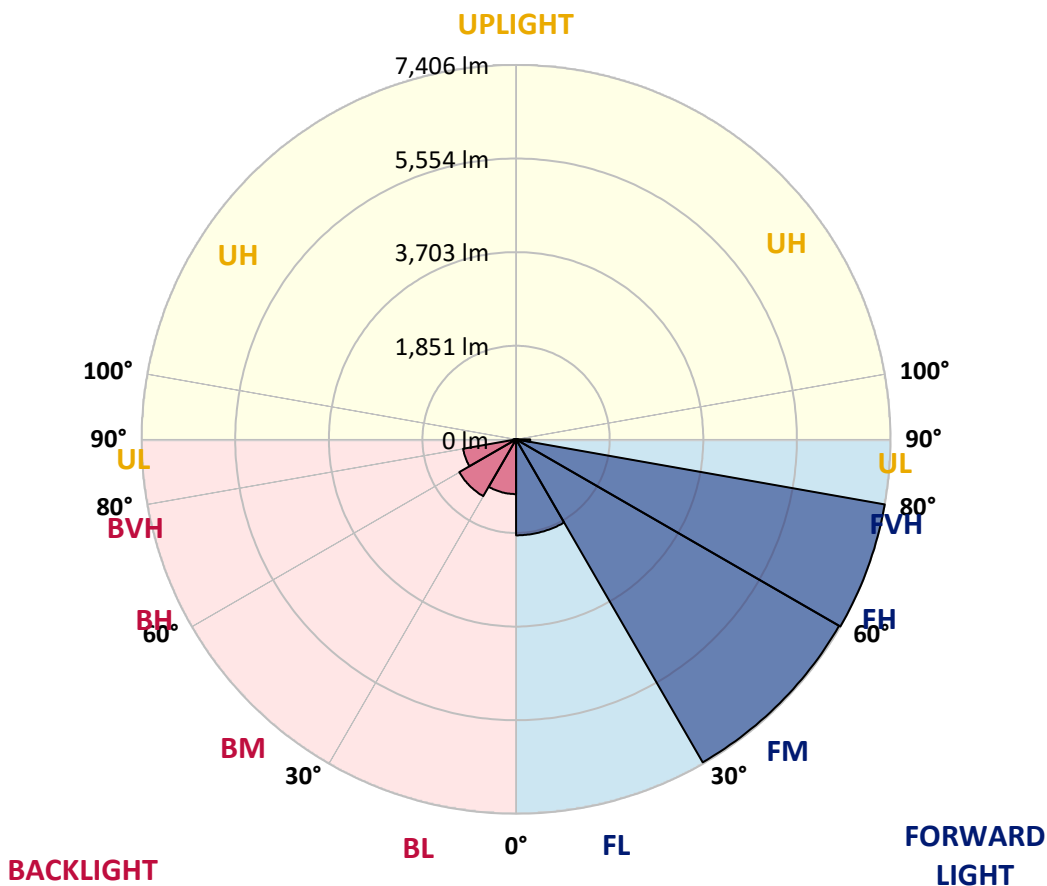
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.9	9.3			
FM (30°-60°)	7378.2	36.1			
FH (60°-80°)	7405.7	36.2			G3/7500
FVH (80°-90°)	278.9	1.4			G3/500
BL (0°-30°)	1082.6	5.3	B3/2500		
BM (30°-60°)	1297.4	6.3	B2/2500		
BH (60°-80°)	1063.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	55.8	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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8
2.5°	5582.5	5588.5	5604.9	5628.9	5652.8	5664.8	5694.8	5685.8	5679.8	5667.8	5652.8
5°	5335.5	5347.4	5362.4	5408.8	5461.2	5503.1	5570.5	5578.0	5581.0	5587.0	5563.0
7.5°	5021.1	5024.1	5060.0	5121.4	5190.3	5262.1	5374.4	5405.8	5432.8	5462.7	5443.3
10°	4673.8	4681.3	4708.2	4796.5	4914.8	5021.1	5172.3	5224.7	5281.6	5347.4	5320.5
12.5°	4389.3	4390.8	4434.2	4528.6	4657.3	4801.0	4989.7	5052.5	5127.4	5230.7	5206.7
15°	4163.3	4163.3	4203.7	4284.5	4432.7	4601.9	4826.5	4907.3	5009.1	5148.3	5106.4
17.5°	3983.6	3985.1	4010.6	4095.9	4227.7	4414.8	4681.3	4790.5	4902.8	5087.0	5024.1
20°	3889.3	3881.8	3886.3	3938.7	4051.0	4232.1	4536.0	4663.3	4814.5	5045.0	4949.2
22.5°	3884.8	3871.4	3851.9	3856.4	3922.3	4072.0	4380.4	4534.5	4724.7	5010.6	4872.9
25°	3961.2	3946.2	3911.8	3872.9	3866.9	3956.7	4233.6	4408.8	4631.9	4995.6	4799.5
27.5°	4089.9	4079.4	4034.5	3976.2	3914.8	3911.8	4122.9	4305.5	4564.5	5010.6	4747.1
30°	4260.6	4242.6	4214.2	4139.3	4046.5	3950.7	4079.4	4250.1	4519.6	5058.5	4724.7
32.5°	4453.7	4443.2	4416.3	4341.4	4242.6	4089.9	4113.9	4262.1	4519.6	5142.3	4729.2
35°	4658.8	4657.3	4657.3	4607.9	4498.6	4308.5	4250.1	4363.9	4588.4	5277.1	4777.1
37.5°	4857.9	4856.4	4904.3	4922.3	4798.0	4592.9	4482.2	4567.5	4739.6	5476.2	4895.3
40°	5019.6	5025.6	5130.4	5220.2	5151.3	4961.2	4805.5	4848.9	4985.2	5759.1	5101.9
42.5°	5182.8	5199.2	5356.4	5515.1	5542.1	5377.4	5220.2	5245.6	5337.0	6133.4	5410.3
45°	5360.9	5368.4	5588.5	5810.0	5940.3	5843.0	5714.2	5748.7	5769.6	6596.0	5869.9
47.5°	5533.1	5552.5	5837.0	6140.9	6387.9	6378.9	6307.0	6296.6	6301.1	7158.9	6413.3
50°	5768.1	5796.6	6130.4	6497.2	6859.5	7025.6	7046.6	6967.2	6934.3	7784.6	7090.0
52.5°	6214.2	6214.2	6513.6	6874.4	7361.0	7772.7	7913.4	7783.1	7678.3	8446.3	7808.6
55°	6772.6	6796.6	7034.6	7326.5	7943.3	8558.6	9034.7	8890.9	8594.5	9166.4	8561.6
57.5°	7021.1	7051.1	7428.3	7881.9	8705.3	9452.3	10112.5	10061.6	9629.0	9914.9	9343.1
60°	6572.0	6634.9	7154.4	7914.9	9395.5	10894.0	11359.6	11211.4	10593.1	10700.9	10190.4
62.5°	5482.2	5551.0	6127.4	7188.8	9299.6	12452.4	13325.2	12778.8	11796.7	11693.4	11319.2
65°	3271.0	3268.0	3961.2	5368.4	8118.5	12885.1	16436.1	15416.6	13656.0	13055.7	12480.9
67.5°	2079.4	2074.9	2220.1	2844.4	5402.8	11825.2	18436.1	18701.1	16181.6	14057.3	12576.7
70°	1640.8	1639.3	1744.1	2028.5	2672.2	8414.9	17879.2	19713.1	17707.0	13675.5	11073.6
72.5°	1196.1	1199.1	1360.8	1699.1	2061.4	4224.7	14477.9	16867.2	16286.4	12072.2	8989.8
75°	859.3	863.8	961.1	1300.9	1901.2	2309.9	9627.5	12683.0	12391.0	9676.9	6184.3
77.5°	546.4	552.4	637.7	911.7	1536.0	1865.3	5837.0	8953.8	8244.2	5452.2	2199.2
80°	333.8	353.3	425.2	679.7	1227.6	1399.7	2917.7	4717.2	4128.8	1495.5	739.5
82.5°	172.2	187.1	256.0	420.7	845.8	1229.1	1651.2	1982.1	1278.5	625.8	393.7
85°	53.9	62.9	89.8	170.7	402.7	762.0	1092.8	985.1	586.8	294.9	182.6
87.5°	13.5	13.5	15.0	15.0	16.5	34.4	211.1	223.1	155.7	92.8	74.9
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°	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8	5661.8
2.5°	5622.9	5587.0	5572.0	5570.5	5533.1	5479.2	5443.3	5417.8	5402.8	5399.8	5399.8
5°	5522.6	5476.2	5414.8	5368.4	5268.1	5166.3	5081.0	5033.1	4977.7	4970.2	4968.7
7.5°	5389.4	5322.0	5205.2	5075.0	4899.8	4730.7	4586.9	4489.6	4392.3	4374.4	4368.4
10°	5245.6	5154.3	4955.2	4726.2	4464.2	4211.2	3991.1	3819.0	3705.2	3624.3	3609.4
12.5°	5103.4	4982.2	4690.2	4348.9	3989.6	3643.8	3313.0	3031.5	2827.9	2709.7	2688.7
15°	4970.2	4801.0	4401.3	3965.7	3498.6	3025.5	2557.0	2191.7	1905.7	1803.9	1780.0
17.5°	4848.9	4637.8	4121.4	3569.0	2986.6	2368.3	1835.4	1510.5	1342.8	1291.9	1280.0
20°	4727.7	4470.2	3836.9	3151.3	2443.2	1750.0	1341.4	1188.7	1125.8	1106.3	1100.3
22.5°	4597.4	4286.0	3527.0	2739.6	1893.8	1309.9	1097.3	1030.0	1010.5	1012.0	1010.5
25°	4467.2	4098.9	3202.2	2292.0	1410.2	1062.9	958.1	932.7	937.2	950.6	953.6
27.5°	4359.4	3932.7	2883.3	1800.9	1101.8	914.7	865.3	863.8	880.3	898.2	901.2
30°	4281.5	3784.5	2568.9	1384.8	907.2	812.9	793.4	802.4	821.9	835.4	839.8
32.5°	4226.2	3657.3	2233.6	1088.4	794.9	741.0	732.1	741.0	753.0	766.5	769.5
35°	4206.7	3564.5	1904.2	887.7	718.6	688.6	682.7	687.1	693.1	700.6	703.6
37.5°	4250.1	3518.1	1559.9	772.5	672.2	654.2	645.2	642.2	643.7	646.7	648.2
40°	4378.9	3539.0	1278.5	705.1	642.2	625.8	610.8	604.8	603.3	606.3	604.8
42.5°	4600.4	3627.3	1074.9	666.2	618.3	594.3	577.9	571.9	571.9	579.4	579.4
45°	4925.3	3801.0	928.2	637.7	597.3	567.4	549.4	546.4	552.4	564.4	565.9
47.5°	5401.3	4055.5	839.8	616.8	577.9	543.4	525.5	524.0	535.9	555.4	556.9
50°	5965.7	4422.3	791.9	601.8	564.4	524.0	506.0	507.5	521.0	541.9	546.4
52.5°	6645.4	4922.3	794.9	595.8	556.9	512.0	494.0	491.0	504.5	525.5	530.0
55°	7347.5	5530.1	853.3	597.3	546.4	506.0	482.0	471.6	483.5	498.5	500.0
57.5°	8120.0	6215.7	998.5	594.3	532.9	500.0	471.6	447.6	455.1	464.1	468.6
60°	8991.3	7022.6	1311.4	600.3	527.0	486.5	450.6	419.2	417.7	423.7	425.2
62.5°	10156.0	8120.0	1663.2	610.8	540.4	470.1	419.2	386.2	380.2	383.2	384.7
65°	11046.7	8643.9	1552.4	601.8	568.9	458.1	389.2	354.8	342.8	339.8	339.8
67.5°	10684.4	7950.8	1080.9	577.9	582.4	459.6	365.3	321.9	306.9	299.4	297.9
70°	9091.6	6458.3	751.5	553.9	567.4	456.6	339.8	294.9	275.5	265.0	263.5
72.5°	7182.8	4931.3	607.8	506.0	515.0	411.7	302.4	265.0	248.5	235.0	235.0
75°	4622.9	3009.1	507.5	450.6	420.7	320.4	262.0	236.5	220.1	206.6	206.6
77.5°	1555.4	1116.8	393.7	381.7	314.4	241.0	220.1	203.6	190.1	178.1	176.7
80°	631.8	530.0	288.9	288.9	220.1	184.1	172.2	164.7	155.7	140.7	140.7
82.5°	366.8	321.9	202.1	175.2	146.7	127.2	119.8	112.3	112.3	101.8	101.8
85°	176.7	178.1	121.3	107.8	83.8	73.4	70.4	65.9	64.4	58.4	56.9
87.5°	95.8	97.3	61.4	47.9	32.9	28.4	24.0	22.5	21.0	19.5	19.5
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)