

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: P641662

Luminaire Tested: GWS-SA6B-735-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641662  
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-SA6B-735-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

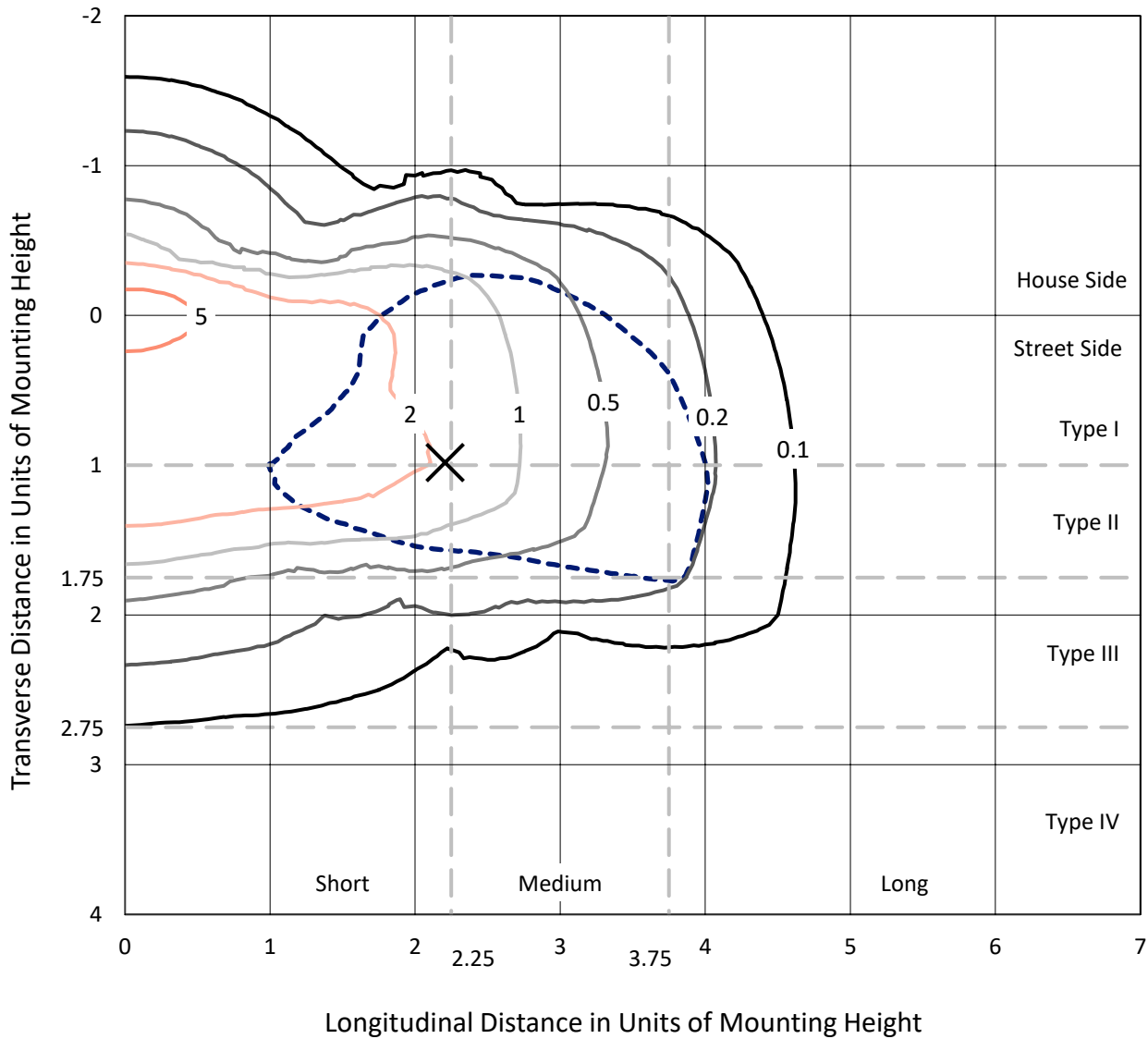
Lumens per Lamp: N/A  
Luminaire Lumens: 20520.8 lumens  
Efficiency: N/A  
Efficacy: 147.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

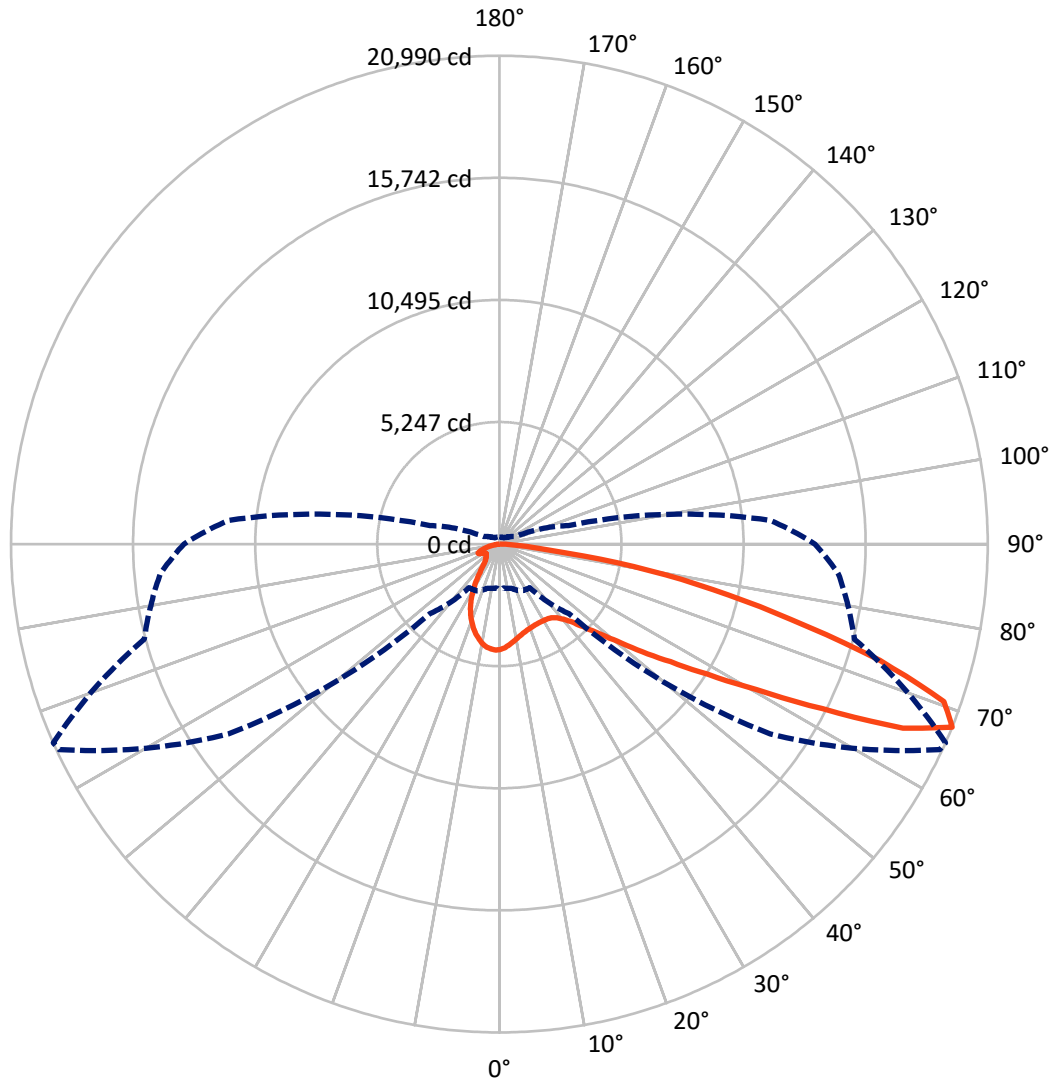
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	4164.2	0.0	4164.2
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	16356.7	0.0	16356.7
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	20520.8	0.0	20520.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.0	1.9
10°-20°	978.0	4.8
20°-30°	1344.3	6.6
30°-40°	1837.9	9.0
40°-50°	2784.9	13.6
50°-60°	4329.3	21.1
60°-70°	5270.8	25.7
70°-80°	3210.7	15.6
80°-90°	366.7	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°	20520.8	100.0
0°-180°	20520.8	100.0

**Coefficient of Utilization**



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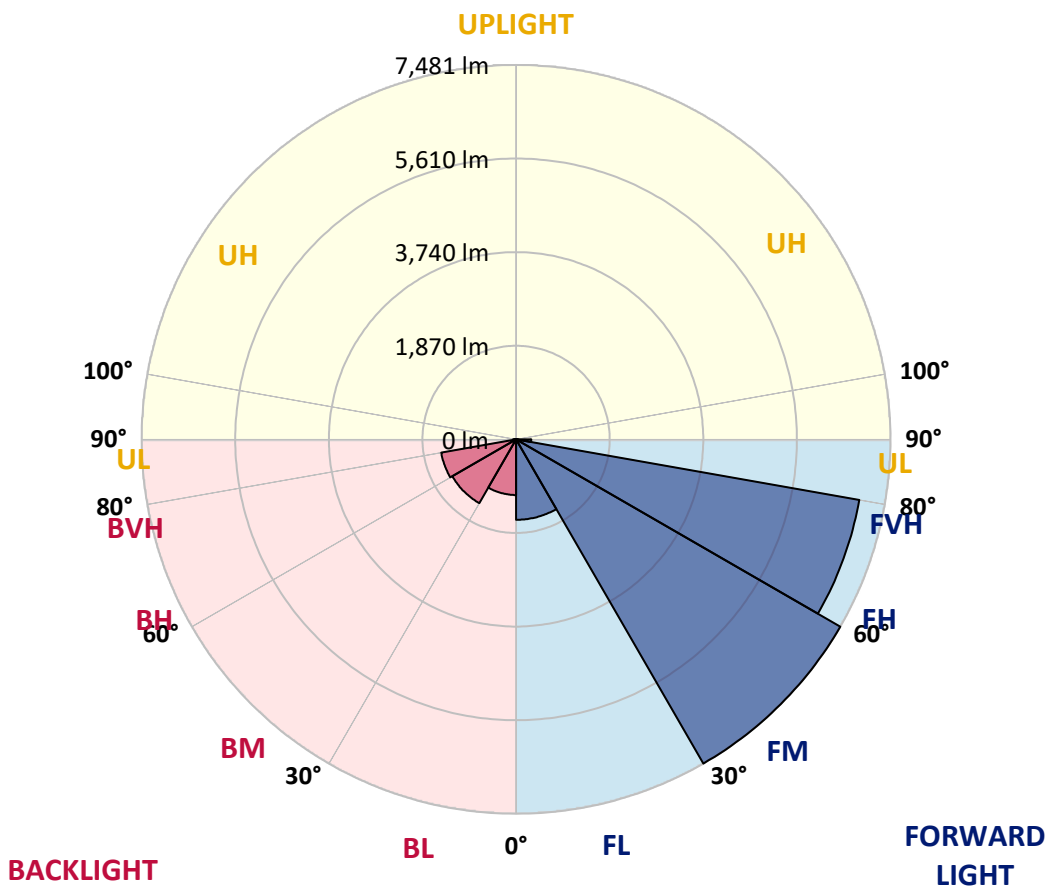
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.9	7.8			
FM (30°-60°)	7480.6	36.5			
FH (60°-80°)	6963.2	33.9			G3/7500
FVH (80°-90°)	304.9	1.5			G3/500
BL (0°-30°)	1112.4	5.4	B3/2500		
BM (30°-60°)	1471.6	7.2	B2/2500		
BH (60°-80°)	1518.3	7.4	B3/2500		G3/2500
BVH (80°-90°)	61.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5
2.5°	4247.1	4262.1	4253.1	4310.0	4313.0	4384.8	4425.2	4459.7	4462.7	4507.6	4537.5
5°	3956.7	3965.6	3965.6	4019.5	4055.5	4151.3	4244.1	4342.9	4350.4	4458.2	4540.5
7.5°	3721.6	3730.6	3724.6	3796.5	3842.9	3949.2	4067.4	4218.6	4233.6	4407.3	4551.0
10°	3537.5	3534.5	3549.5	3615.3	3675.2	3802.5	3934.2	4106.4	4128.8	4348.9	4563.0
12.5°	3411.7	3414.7	3423.7	3492.6	3557.0	3682.7	3818.9	4006.1	4030.0	4281.5	4557.0
15°	3351.9	3345.9	3353.4	3416.2	3477.6	3588.4	3729.1	3922.2	3946.2	4221.6	4558.5
17.5°	3338.4	3333.9	3332.4	3377.3	3423.7	3527.0	3661.7	3857.9	3883.3	4182.7	4567.4
20°	3380.3	3374.3	3357.8	3377.3	3396.8	3483.6	3613.8	3811.4	3839.9	4157.3	4585.4
22.5°	3495.6	3485.1	3459.6	3435.7	3410.2	3462.6	3583.9	3777.0	3805.5	4140.8	4603.4
25°	3670.7	3661.7	3634.8	3580.9	3488.1	3479.1	3577.9	3762.0	3790.5	4128.8	4610.9
27.5°	3911.7	3898.3	3871.3	3793.5	3642.3	3540.5	3600.4	3760.5	3787.5	4115.3	4603.4
30°	4197.7	4188.7	4173.7	4079.4	3877.3	3670.7	3651.3	3772.5	3793.5	4107.9	4588.4
32.5°	4488.1	4479.1	4491.1	4446.2	4197.7	3886.3	3762.0	3805.5	3820.4	4106.4	4574.9
35°	4744.1	4754.6	4841.4	4848.9	4604.9	4178.2	3937.2	3881.8	3884.8	4136.3	4580.9
37.5°	5012.1	5052.5	5166.3	5263.6	5060.0	4564.5	4197.7	4025.5	4022.5	4212.7	4618.3
40°	5366.9	5384.8	5530.0	5712.7	5585.4	5094.4	4567.4	4260.6	4239.6	4368.3	4718.6
42.5°	5712.7	5756.1	5988.1	6197.7	6155.8	5691.7	5033.0	4612.4	4574.9	4643.8	4925.2
45°	6152.8	6194.7	6455.2	6724.7	6801.0	6366.9	5628.8	5112.4	5074.9	5058.5	5304.0
47.5°	6592.9	6636.3	6869.9	7259.1	7527.1	7211.2	6404.3	5772.6	5711.2	5646.8	5875.9
50°	6889.3	6940.2	7163.3	7630.4	8259.1	8265.1	7323.5	6637.8	6560.0	6458.2	6681.3
52.5°	6878.9	6911.8	7124.4	7663.3	8786.1	9476.2	8554.0	7739.7	7676.8	7455.2	7649.8
55°	6338.4	6387.8	6601.9	7275.6	8843.0	10624.4	10362.5	9039.1	8926.8	8530.1	8744.2
57.5°	5253.1	5295.0	5510.6	6341.4	8338.5	11212.8	12658.9	10694.8	10540.6	9700.8	9947.8
60°	3965.6	3914.7	4016.5	4744.1	7131.9	11227.8	14685.9	12940.4	12682.9	10952.3	11158.9
62.5°	2976.1	2925.2	2947.7	3152.8	4835.4	10320.5	15841.6	16012.3	15587.1	12365.5	12325.1
65°	2351.8	2323.4	2387.8	2528.5	2818.9	7859.4	15850.6	19334.2	19066.2	14003.3	13521.2
67.5°	1916.2	1898.2	1964.1	2224.6	2286.0	4223.1	14212.8	20885.1	20989.9	15796.7	14630.5
70°	1543.4	1516.5	1619.8	1962.6	2125.8	2555.4	10181.3	20094.7	20263.8	16865.6	14317.6
72.5°	1065.9	1067.4	1119.8	1589.8	2052.4	2206.6	5759.1	16732.3	17099.1	15897.0	12587.1
75°	718.6	724.6	739.5	1049.4	1890.8	2140.8	3068.9	12667.9	12926.9	13139.5	10404.4
77.5°	434.1	437.1	471.6	634.7	1303.9	1998.5	2079.4	9182.8	9386.4	8661.8	6449.2
80°	251.5	262.0	293.4	425.2	880.3	1501.5	1609.3	5630.3	5860.9	3850.4	2049.4
82.5°	110.8	118.3	160.2	247.0	513.5	1277.0	1256.0	2224.6	2191.7	1073.4	711.1
85°	19.5	24.0	34.4	77.8	188.6	673.7	974.6	982.1	923.7	407.2	294.9
87.5°	0.0	0.0	0.0	0.0	0.0	4.5	146.7	263.5	262.0	115.3	101.8
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°	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5	4534.5
2.5°	4557.0	4516.5	4552.5	4557.0	4549.5	4543.5	4498.6	4459.7	4455.2	4413.3	4413.3
5°	4573.4	4536.0	4554.0	4519.5	4465.7	4410.3	4314.5	4248.6	4218.6	4164.7	4164.7
7.5°	4595.9	4557.0	4536.0	4450.7	4324.9	4203.7	4049.5	3920.7	3868.3	3792.0	3789.0
10°	4616.9	4567.4	4495.6	4329.4	4128.8	3935.7	3711.1	3528.5	3404.3	3312.9	3312.9
12.5°	4615.4	4551.0	4408.8	4163.2	3886.3	3606.4	3306.9	3031.5	2866.8	2724.6	2715.6
15°	4612.4	4524.0	4298.0	3970.1	3603.4	3215.6	2808.4	2449.1	2205.1	2065.9	2053.9
17.5°	4609.4	4489.6	4173.7	3750.1	3259.0	2730.6	2193.2	1803.9	1600.3	1515.0	1518.0
20°	4609.4	4450.7	4040.5	3497.1	2862.3	2149.7	1609.3	1326.4	1275.5	1280.0	1284.5
22.5°	4595.9	4402.8	3892.3	3221.6	2420.7	1580.9	1187.1	1091.3	1118.3	1160.2	1166.2
25°	4564.5	4323.4	3720.1	2916.2	1895.2	1151.2	968.6	950.6	1000.0	1052.4	1067.4
27.5°	4515.1	4232.1	3527.0	2558.4	1395.2	925.2	851.8	850.3	889.2	928.2	941.6
30°	4462.7	4130.3	3323.4	2160.2	1010.5	805.4	777.0	777.0	796.4	820.4	817.4
32.5°	4401.3	4027.0	3104.8	1745.5	823.4	738.0	729.1	724.6	727.6	736.5	736.5
35°	4348.9	3935.7	2880.3	1306.9	738.0	700.6	691.6	681.2	676.7	670.7	673.7
37.5°	4329.4	3863.8	2648.3	985.0	696.1	673.7	658.7	643.7	633.2	630.3	628.8
40°	4360.9	3833.9	2416.2	811.4	666.2	645.2	628.8	609.3	600.3	600.3	600.3
42.5°	4483.6	3856.4	2179.7	733.5	645.2	621.3	597.3	579.4	576.4	579.4	580.8
45°	4708.2	3943.2	1934.2	694.6	627.3	597.3	568.9	555.4	555.4	558.4	558.4
47.5°	5109.4	4170.7	1691.6	670.7	609.3	577.9	547.9	534.4	532.9	535.9	535.9
50°	5804.0	4580.9	1473.1	654.2	595.8	562.9	532.9	515.0	510.5	509.0	509.0
52.5°	6679.8	5292.0	1333.9	642.2	579.4	546.4	516.5	492.5	483.5	479.1	479.1
55°	7738.2	6239.6	1333.9	633.2	558.4	527.0	492.5	468.6	455.1	449.1	449.1
57.5°	8937.3	7342.9	1564.4	625.8	541.9	504.5	467.1	443.1	428.2	419.2	419.2
60°	10157.4	8509.1	2134.8	615.3	527.0	476.1	438.6	416.2	396.7	386.2	384.7
62.5°	11422.4	9793.6	2886.3	621.3	516.5	449.1	408.7	383.2	366.8	356.3	354.8
65°	12581.1	11016.7	3543.5	667.7	518.0	425.2	374.3	351.8	338.3	324.9	323.4
67.5°	13564.6	11691.8	3082.4	762.0	549.4	396.7	339.8	317.4	305.4	296.4	294.9
70°	12876.0	10661.9	1748.5	820.4	592.8	366.8	300.9	285.9	274.0	268.0	266.5
72.5°	11010.7	9027.1	1169.2	724.6	540.4	327.9	265.0	253.0	244.0	236.5	235.0
75°	8919.3	7158.8	893.7	594.3	420.7	266.5	227.5	218.6	209.6	202.1	200.6
77.5°	5277.0	4136.3	658.7	470.1	296.4	208.1	188.6	181.1	172.2	166.2	164.7
80°	1684.2	1437.2	417.7	323.4	196.1	160.2	145.2	139.2	130.2	122.8	121.3
82.5°	642.2	555.4	221.6	164.7	130.2	109.3	97.3	91.3	85.3	77.8	76.3
85°	284.4	266.5	122.8	88.3	70.4	53.9	47.9	44.9	37.4	31.4	29.9
87.5°	100.3	100.3	52.4	25.4	15.0	7.5	4.5	1.5	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)