

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: P638032

Luminaire Tested: GWS-SA4E-722-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638032
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-SA4E-722-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22151.5 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

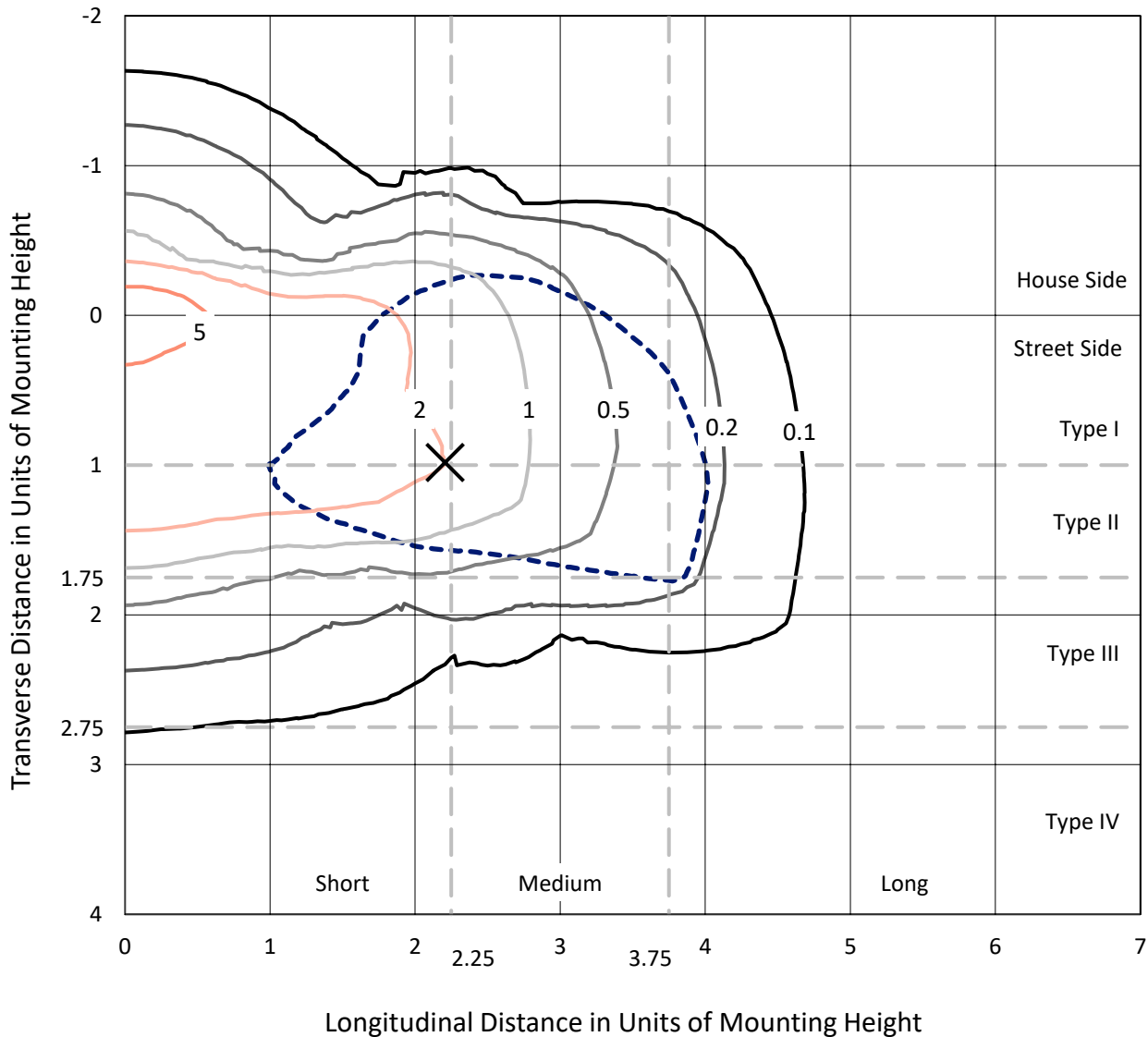
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

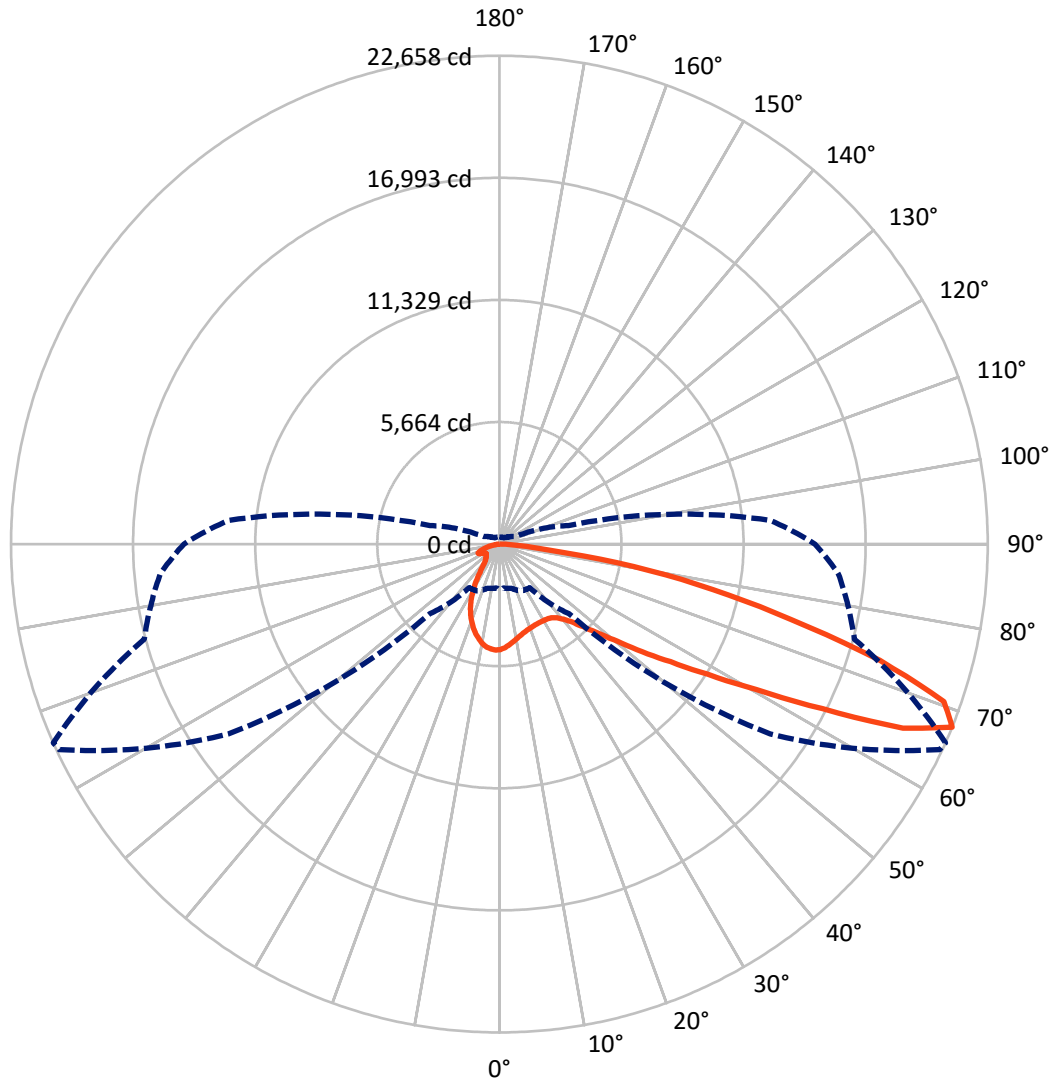
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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
House Side	Lumens	4495.1	0.0	4495.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	17656.4	0.0	17656.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	22151.5	0.0	22151.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.6	1.9
10°-20°	1055.8	4.8
20°-30°	1451.2	6.6
30°-40°	1984.0	9.0
40°-50°	3006.3	13.6
50°-60°	4673.3	21.1
60°-70°	5689.7	25.7
70°-80°	3465.9	15.6
80°-90°	395.9	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°	22151.5	100.0
0°-180°	22151.5	100.0

Coefficient of Utilization



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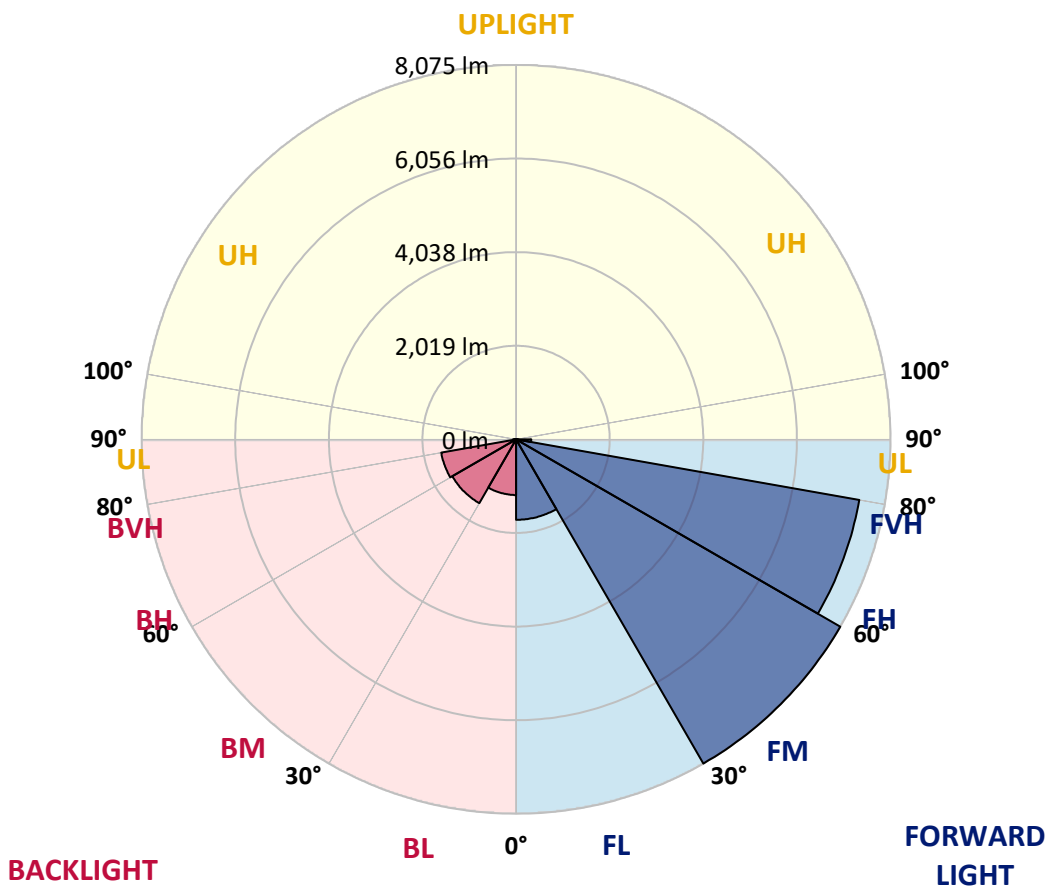
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.7	7.8			
FM (30°-60°)	8075.1	36.5			
FH (60°-80°)	7516.6	33.9			G4/12000
FVH (80°-90°)	329.1	1.5			G3/500
BL (0°-30°)	1200.8	5.4	B3/2500		
BM (30°-60°)	1588.5	7.2	B2/2500		
BH (60°-80°)	1639.0	7.4	B3/2500		G3/2500
BVH (80°-90°)	66.7	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°	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9
2.5°	4584.6	4600.7	4591.0	4652.5	4655.7	4733.3	4776.9	4814.1	4817.3	4865.8	4898.1
5°	4271.1	4280.8	4280.8	4338.9	4377.7	4481.2	4581.3	4688.0	4696.1	4812.4	4901.3
7.5°	4017.4	4027.1	4020.6	4098.2	4148.3	4263.0	4390.7	4553.9	4570.0	4757.5	4912.6
10°	3818.6	3815.4	3831.5	3902.6	3967.3	4104.6	4246.8	4432.7	4456.9	4694.5	4925.6
12.5°	3682.9	3686.1	3695.8	3770.1	3839.6	3975.4	4122.4	4324.4	4350.3	4621.7	4919.1
15°	3618.2	3611.8	3619.8	3687.7	3754.0	3873.5	4025.4	4233.9	4259.8	4557.1	4920.7
17.5°	3603.7	3598.8	3597.2	3645.7	3695.8	3807.3	3952.7	4164.4	4191.9	4515.1	4930.4
20°	3648.9	3642.5	3624.7	3645.7	3666.7	3760.4	3901.0	4114.3	4145.0	4487.6	4949.8
22.5°	3773.4	3762.0	3734.6	3708.7	3681.2	3737.8	3868.7	4077.2	4107.9	4469.8	4969.2
25°	3962.4	3952.7	3923.6	3865.5	3765.3	3755.6	3862.2	4061.0	4091.7	4456.9	4977.3
27.5°	4222.6	4208.1	4179.0	4094.9	3931.7	3821.8	3886.5	4059.4	4088.5	4442.4	4969.2
30°	4531.3	4521.6	4505.4	4403.6	4185.4	3962.4	3941.4	4072.3	4094.9	4434.3	4953.0
32.5°	4844.8	4835.1	4848.0	4799.5	4531.3	4195.1	4061.0	4107.9	4124.0	4432.7	4938.5
35°	5121.1	5132.4	5226.1	5234.2	4970.8	4510.2	4250.1	4190.3	4193.5	4465.0	4944.9
37.5°	5410.4	5454.0	5576.8	5681.8	5462.1	4927.2	4531.3	4345.4	4342.2	4547.4	4985.3
40°	5793.3	5812.7	5969.5	6166.6	6029.3	5499.2	4930.4	4599.1	4576.5	4715.5	5093.6
42.5°	6166.6	6213.5	6464.0	6690.2	6645.0	6144.0	5433.0	4978.9	4938.5	5012.8	5316.6
45°	6641.7	6687.0	6968.2	7259.1	7341.5	6872.8	6076.1	5518.6	5478.2	5460.5	5725.5
47.5°	7116.8	7163.7	7415.8	7836.0	8125.2	7784.3	6913.2	6231.3	6165.0	6095.5	6342.8
50°	7436.8	7491.8	7732.5	8236.7	8915.5	8921.9	7905.5	7165.3	7081.3	6971.4	7212.2
52.5°	7425.5	7461.1	7690.5	8272.3	9484.3	10229.3	9233.8	8354.7	8286.8	8047.7	8257.7
55°	6842.1	6895.5	7126.5	7853.7	9545.7	11468.7	11185.9	9757.4	9636.2	9207.9	9439.0
57.5°	5670.5	5715.8	5948.5	6845.4	9001.1	12103.8	13664.9	11544.7	11378.2	10471.7	10738.3
60°	4280.8	4225.8	4335.7	5121.1	7698.6	12120.0	15852.9	13968.7	13690.7	11822.6	12045.6
62.5°	3212.6	3157.7	3181.9	3403.3	5219.7	11140.7	17100.5	17284.7	16825.8	13348.1	13304.5
65°	2538.7	2508.0	2577.5	2729.4	3042.9	8484.0	17110.2	20870.6	20581.3	15116.0	14595.7
67.5°	2068.5	2049.1	2120.2	2401.4	2467.6	4558.7	15342.3	22544.8	22657.9	17052.0	15793.1
70°	1666.1	1637.0	1748.5	2118.6	2294.7	2758.5	10990.4	21691.5	21874.1	18205.8	15455.4
72.5°	1150.6	1152.2	1208.8	1716.2	2215.5	2382.0	6216.7	18062.0	18457.9	17160.3	13587.3
75°	775.7	782.1	798.3	1132.8	2041.0	2310.9	3312.8	13674.6	13954.1	14183.6	11231.2
77.5°	468.6	471.9	509.0	685.2	1407.5	2157.4	2244.6	9912.5	10132.3	9350.2	6961.7
80°	271.5	282.8	316.7	458.9	950.2	1620.8	1737.2	6077.8	6326.6	4156.3	2212.3
82.5°	119.6	127.7	172.9	266.6	554.3	1378.4	1355.8	2401.4	2365.8	1158.7	767.6
85°	21.0	25.9	37.2	84.0	203.6	727.2	1052.0	1060.1	997.1	439.6	318.4
87.5°	0.0	0.0	0.0	0.0	0.0	4.8	158.4	284.4	282.8	124.4	109.9
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°	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9	4894.9
2.5°	4919.1	4875.5	4914.2	4919.1	4911.0	4904.5	4856.1	4814.1	4809.2	4764.0	4764.0
5°	4936.9	4896.5	4915.9	4878.7	4820.5	4760.7	4657.3	4586.2	4553.9	4495.7	4495.7
7.5°	4961.1	4919.1	4896.5	4804.4	4668.6	4537.7	4371.3	4232.3	4175.7	4093.3	4090.1
10°	4983.7	4930.4	4852.8	4673.5	4456.9	4248.5	4006.1	3808.9	3674.8	3576.2	3576.2
12.5°	4982.1	4912.6	4759.1	4494.1	4195.1	3892.9	3569.7	3272.4	3094.6	2941.1	2931.4
15°	4978.9	4883.5	4639.5	4285.6	3889.7	3471.2	3031.6	2643.8	2380.4	2230.1	2217.1
17.5°	4975.7	4846.4	4505.4	4048.1	3518.0	2947.6	2367.4	1947.3	1727.5	1635.4	1638.6
20°	4975.7	4804.4	4361.6	3775.0	3089.8	2320.6	1737.2	1431.8	1376.8	1381.7	1386.5
22.5°	4961.1	4752.6	4201.6	3477.6	2613.1	1706.5	1281.5	1178.1	1207.1	1252.4	1258.9
25°	4927.2	4667.0	4015.8	3148.0	2045.9	1242.7	1045.5	1026.2	1079.5	1136.0	1152.2
27.5°	4873.8	4568.4	3807.3	2761.7	1506.1	998.7	919.5	917.9	959.9	1001.9	1016.5
30°	4817.3	4458.5	3587.5	2331.9	1090.8	869.4	838.7	838.7	859.7	885.6	882.3
32.5°	4751.0	4347.0	3351.6	1884.3	888.8	796.7	787.0	782.1	785.4	795.1	795.1
35°	4694.5	4248.5	3109.2	1410.8	796.7	756.3	746.6	735.3	730.4	724.0	727.2
37.5°	4673.5	4170.9	2858.7	1063.3	751.4	727.2	711.0	694.9	683.6	680.3	678.7
40°	4707.4	4138.6	2608.2	875.9	719.1	696.5	678.7	657.7	648.0	648.0	648.0
42.5°	4839.9	4162.8	2352.9	791.8	696.5	670.6	644.8	625.4	622.2	625.4	627.0
45°	5082.3	4256.5	2087.9	749.8	677.1	644.8	614.1	599.5	599.5	602.8	602.8
47.5°	5515.4	4502.2	1826.1	724.0	657.7	623.8	591.5	576.9	575.3	578.5	578.5
50°	6265.2	4944.9	1590.1	706.2	643.2	607.6	575.3	555.9	551.1	549.4	549.4
52.5°	7210.6	5712.5	1439.9	693.3	625.4	589.8	557.5	531.7	522.0	517.1	517.1
55°	8353.1	6735.5	1439.9	683.6	602.8	568.8	531.7	505.8	491.3	484.8	484.8
57.5°	9647.5	7926.5	1688.7	675.5	585.0	544.6	504.2	478.3	462.2	452.5	452.5
60°	10964.5	9185.3	2304.4	664.2	568.8	513.9	473.5	449.2	428.2	416.9	415.3
62.5°	12330.1	10571.8	3115.6	670.6	557.5	484.8	441.2	413.7	395.9	384.6	383.0
65°	13580.8	11892.1	3825.1	720.7	559.1	458.9	404.0	379.8	365.2	350.7	349.1
67.5°	14642.5	12620.9	3327.3	822.5	593.1	428.2	366.8	342.6	329.7	320.0	318.4
70°	13899.2	11509.1	1887.5	885.6	639.9	395.9	324.8	308.7	295.7	289.3	287.6
72.5°	11885.7	9744.5	1262.1	782.1	583.4	353.9	286.0	273.1	263.4	255.3	253.7
75°	9628.1	7727.7	964.7	641.6	454.1	287.6	245.6	235.9	226.2	218.2	216.5
77.5°	5696.4	4465.0	711.0	507.4	320.0	224.6	203.6	195.5	185.8	179.4	177.8
80°	1818.0	1551.4	450.9	349.1	211.7	172.9	156.8	150.3	140.6	132.5	130.9
82.5°	693.3	599.5	239.2	177.8	140.6	118.0	105.0	98.6	92.1	84.0	82.4
85°	307.0	287.6	132.5	95.3	76.0	58.2	51.7	48.5	40.4	33.9	32.3
87.5°	108.3	108.3	56.6	27.5	16.2	8.1	4.8	1.6	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)