

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: P638342

Luminaire Tested: GWS-SA4E-750-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31035.7 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

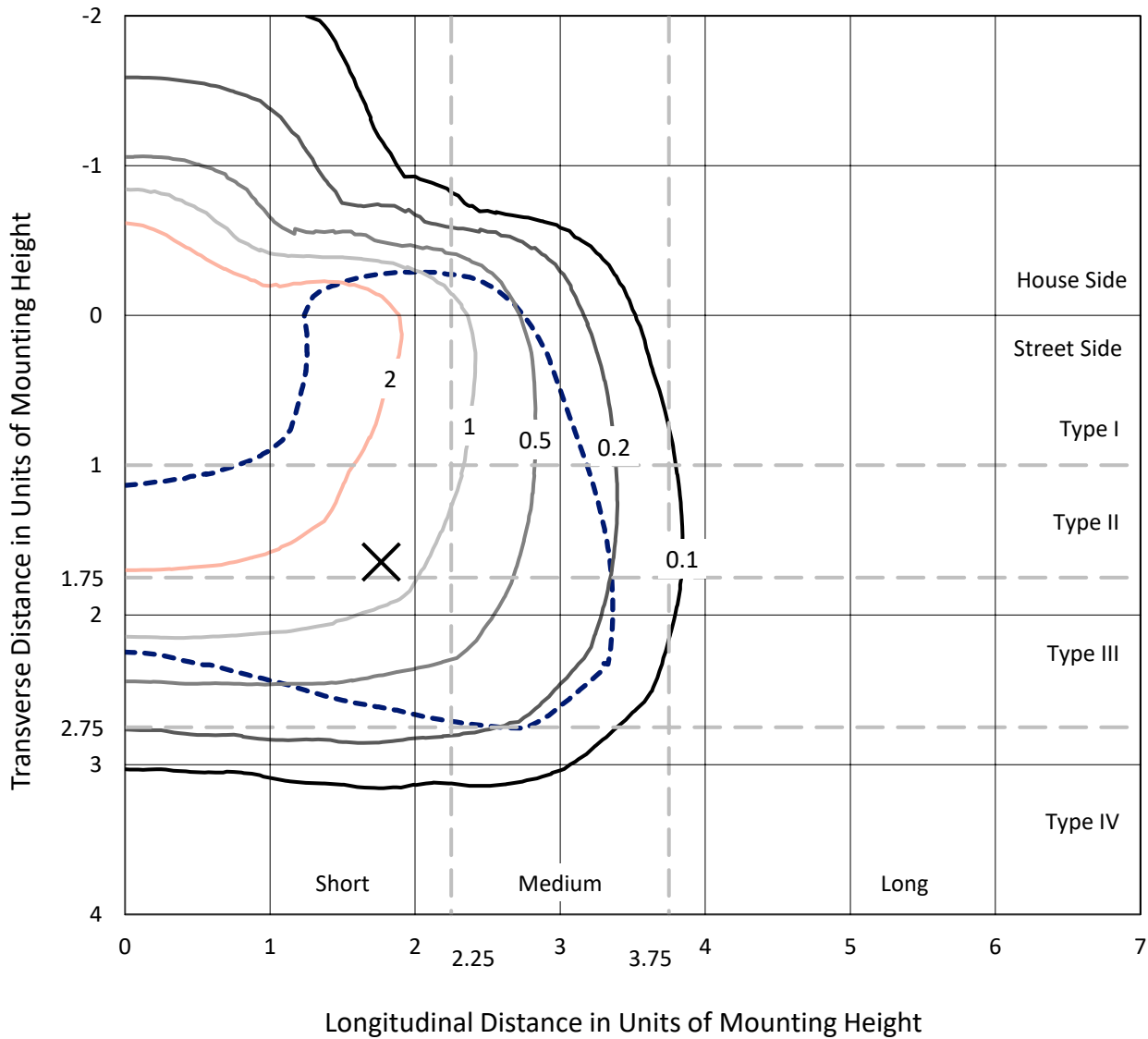
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

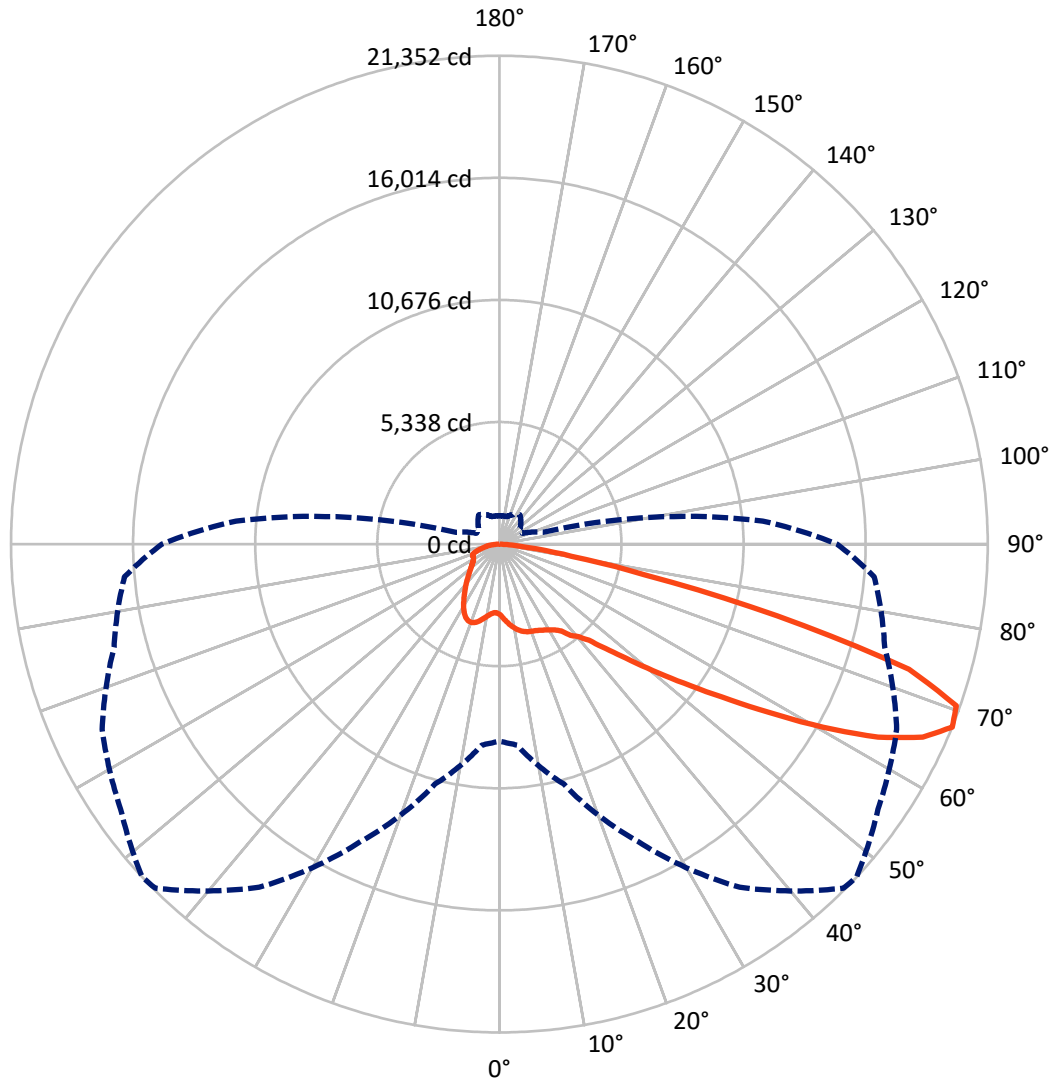
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7073.3	0.0	7073.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	23962.4	0.0	23962.4
	% Fixture	77.2	0.0	77.2
Total	Lumens	31035.7	0.0	31035.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.4	1.0
10°-20°	1047.6	3.4
20°-30°	1780.6	5.7
30°-40°	2608.4	8.4
40°-50°	3974.2	12.8
50°-60°	7110.7	22.9
60°-70°	9488.5	30.6
70°-80°	4290.9	13.8
80°-90°	420.4	1.4
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°	31035.7	100.0
0°-180°	31035.7	100.0

Coefficient of Utilization



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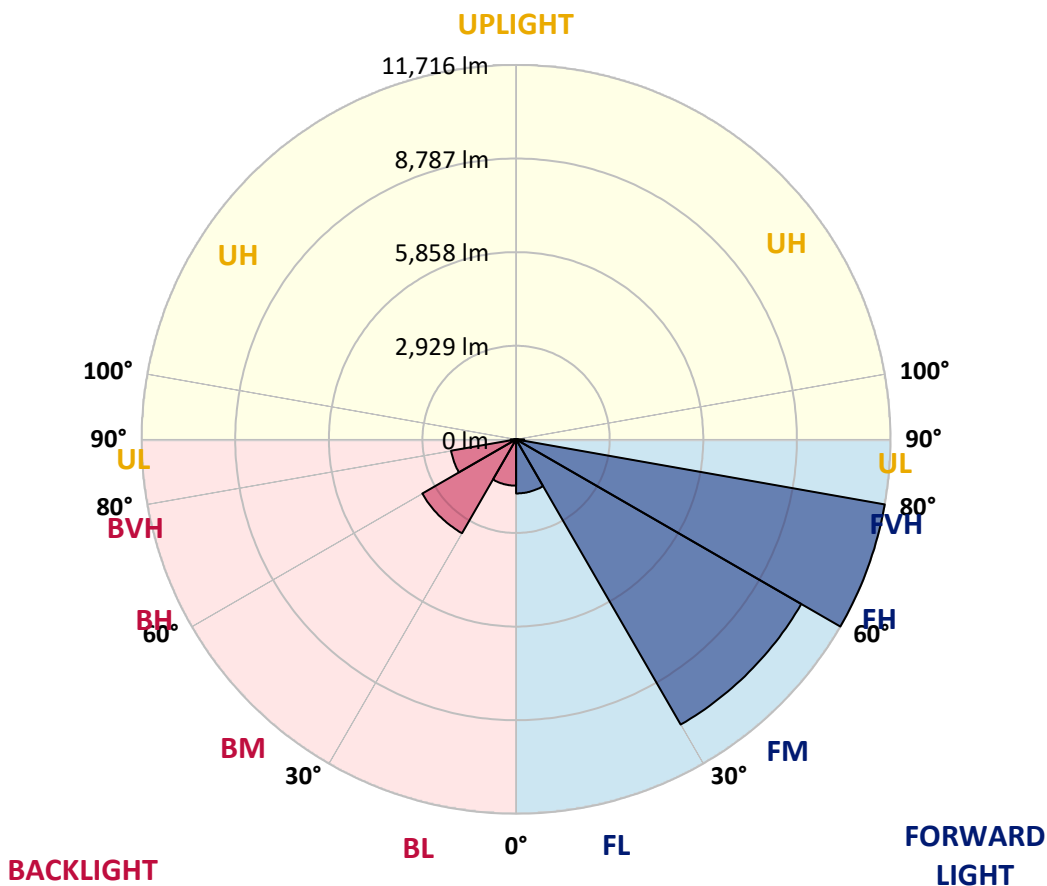
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1692.6	5.5			
FM (30°-60°)	10304.2	33.2			
FH (60°-80°)	11715.6	37.7			G4/12000
FVH (80°-90°)	250.1	0.8			G3/500
BL (0°-30°)	1450.0	4.7	B3/2500		
BM (30°-60°)	3389.1	10.9	B3/5000		
BH (60°-80°)	2063.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	170.3	0.5			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6
2.5°	3280.8	3292.1	3289.8	3271.9	3260.6	3240.4	3242.7	3211.3	3164.1	3132.7	3096.8
5°	3570.3	3588.3	3565.8	3536.7	3491.8	3426.7	3420.0	3348.2	3258.4	3195.6	3130.5
7.5°	3821.7	3832.9	3805.9	3756.6	3691.5	3604.0	3588.3	3503.0	3390.8	3292.1	3197.8
10°	4016.9	4030.3	3994.4	3929.4	3844.1	3756.6	3745.4	3657.8	3538.9	3422.2	3303.3
12.5°	4182.9	4187.4	4149.3	4061.8	3969.8	3880.0	3868.8	3788.0	3678.0	3559.1	3428.9
15°	4279.4	4281.7	4234.6	4138.1	4050.5	3972.0	3965.3	3895.7	3794.7	3682.5	3543.4
17.5°	4272.7	4277.2	4243.5	4158.3	4082.0	4034.8	4028.1	3983.2	3904.7	3803.7	3664.6
20°	4189.7	4194.2	4171.7	4115.6	4075.2	4061.8	4064.0	4050.5	4003.4	3920.4	3779.0
22.5°	4124.6	4131.3	4111.1	4070.7	4066.3	4097.7	4104.4	4111.1	4088.7	4014.6	3877.8
25°	4156.0	4167.2	4135.8	4079.7	4088.7	4158.3	4171.7	4194.2	4176.2	4113.4	3994.4
27.5°	4373.7	4380.4	4299.6	4185.2	4158.3	4232.3	4252.5	4288.4	4275.0	4216.6	4124.6
30°	4878.6	4874.1	4701.3	4420.8	4308.6	4337.8	4353.5	4405.1	4409.6	4371.4	4283.9
32.5°	5590.0	5567.5	5300.5	4853.9	4528.5	4456.7	4474.7	4544.2	4595.9	4555.5	4436.5
35°	6341.7	6321.5	6027.6	5504.7	4934.7	4685.6	4665.4	4719.3	4797.8	4685.6	4515.1
37.5°	7057.6	7026.2	6725.5	6079.2	5435.1	5087.3	5058.1	5004.3	4957.2	4741.7	4611.6
40°	7852.0	7816.1	7553.5	6822.0	5987.2	5394.7	5320.7	5107.5	5064.9	4928.0	4862.9
42.5°	8700.3	8700.3	8482.6	7762.2	6653.7	5834.6	5738.1	5417.2	5462.1	5372.3	5296.0
45°	9548.5	9573.2	9400.4	8709.2	7544.6	6664.9	6510.0	6054.5	6162.2	6121.8	6083.7
47.5°	10271.1	10318.2	10284.6	9676.4	8635.2	7674.7	7439.1	6965.6	7196.7	7293.2	7400.9
50°	11049.8	11101.4	11067.8	10827.6	9912.1	8897.7	8686.8	8197.6	8594.8	8884.3	9236.6
52.5°	12205.5	12279.6	11999.0	11907.0	11462.7	10286.8	10098.3	9541.8	10262.1	10742.4	11527.8
55°	13181.7	13179.4	13080.7	13291.6	13127.8	11985.6	11776.9	11272.0	12192.0	12701.4	13850.4
57.5°	13635.0	13688.8	14027.7	14624.6	14952.2	14061.3	13861.6	13345.5	14263.3	14528.1	15769.1
60°	13868.4	13935.7	14590.9	15771.3	16653.2	16327.9	16249.3	15591.8	16107.9	16076.5	17387.1
62.5°	13540.7	13675.4	14727.8	16296.4	17867.3	18605.6	18580.9	17586.8	17676.5	17369.1	18390.2
65°	12037.2	12183.1	13834.7	16033.9	18560.7	20338.0	20344.7	19393.3	18881.6	17997.4	18221.8
67.5°	8608.3	8817.0	10859.1	14346.3	18316.1	21273.8	21352.3	20212.3	19164.4	17440.9	16453.5
70°	4692.4	4844.9	6445.0	10428.2	16112.4	21049.4	21195.2	19817.4	17916.7	15086.9	12665.5
72.5°	2131.9	2181.2	2998.1	5722.4	11007.2	18118.6	18729.0	17685.5	14714.4	11144.1	8054.0
75°	976.2	998.6	1306.0	2737.8	5751.6	12124.7	12553.3	13172.7	10239.7	7037.4	4198.7
77.5°	612.6	619.4	742.8	1252.2	2867.9	6052.3	6503.3	7843.0	5996.2	3482.8	1754.9
80°	361.3	368.0	462.3	677.7	1346.4	2769.2	3197.8	3101.3	2818.6	1503.5	798.9
82.5°	181.8	188.5	267.0	386.0	733.8	1101.8	1297.1	1303.8	1050.2	814.6	451.1
85°	65.1	67.3	87.5	152.6	311.9	363.5	406.2	495.9	513.9	473.5	217.7
87.5°	0.0	0.0	2.2	4.5	9.0	35.9	38.1	71.8	150.4	168.3	87.5
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°	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6
2.5°	3085.6	3051.9	3040.7	3029.5	3011.5	3004.8	2991.3	2977.9	2977.9	2964.4	2957.7
5°	3101.3	3056.4	3027.3	3013.8	3002.6	3009.3	3009.3	3013.8	3029.5	3020.5	3025.0
7.5°	3157.4	3105.8	3065.4	3054.2	3054.2	3081.1	3099.1	3121.5	3150.7	3155.2	3155.2
10°	3256.1	3195.6	3152.9	3146.2	3157.4	3195.6	3222.5	3249.4	3285.3	3287.6	3292.1
12.5°	3363.9	3303.3	3260.6	3269.6	3280.8	3330.2	3359.4	3381.8	3417.7	3417.7	3415.5
15°	3476.1	3408.7	3372.8	3390.8	3424.5	3480.6	3485.0	3487.3	3505.2	3500.7	3498.5
17.5°	3592.8	3520.9	3494.0	3520.9	3556.9	3583.8	3561.3	3529.9	3523.2	3514.2	3509.7
20°	3707.2	3633.1	3621.9	3642.1	3653.3	3630.9	3561.3	3503.0	3476.1	3462.6	3458.1
22.5°	3805.9	3743.1	3736.4	3736.4	3680.3	3601.7	3498.5	3420.0	3384.1	3366.1	3361.6
25°	3922.6	3864.3	3853.1	3792.5	3648.9	3505.2	3366.1	3294.3	3265.1	3256.1	3258.4
27.5°	4059.5	4019.1	3983.2	3810.4	3559.1	3334.7	3177.6	3146.2	3135.0	3146.2	3152.9
30°	4227.8	4187.4	4106.6	3788.0	3415.5	3112.5	2962.2	2959.9	2993.6	3022.8	3027.3
32.5°	4364.7	4346.8	4214.4	3716.2	3213.5	2867.9	2740.0	2749.0	2809.6	2850.0	2856.7
35°	4472.4	4501.6	4304.1	3597.2	2973.4	2636.8	2535.8	2540.3	2573.9	2630.1	2632.3
37.5°	4625.0	4723.8	4384.9	3415.5	2697.4	2437.1	2345.1	2311.4	2306.9	2322.6	2327.1
40°	4932.5	5080.6	4443.3	3150.7	2430.3	2257.5	2154.3	2089.2	2033.1	1990.5	1977.0
42.5°	5397.0	5567.5	4476.9	2829.8	2192.5	2080.3	1963.6	1880.5	1781.8	1692.0	1660.6
45°	6249.7	6305.8	4476.9	2488.7	1981.5	1914.2	1797.5	1698.8	1573.1	1467.6	1445.2
47.5°	7614.1	7434.6	4481.4	2158.8	1795.3	1768.3	1667.3	1555.1	1416.0	1328.5	1315.0
50°	9669.7	9039.1	4573.4	1885.0	1640.4	1644.9	1570.8	1447.4	1321.8	1256.7	1245.5
52.5°	11999.0	11016.1	4820.3	1683.1	1510.3	1543.9	1503.5	1384.6	1272.4	1216.3	1205.1
55°	14189.3	12833.8	5031.2	1539.4	1400.3	1458.6	1456.4	1346.4	1245.5	1189.4	1182.6
57.5°	16051.8	14079.3	4999.8	1422.7	1306.0	1380.1	1413.8	1321.8	1227.5	1180.4	1173.6
60°	17209.8	14739.1	4553.2	1315.0	1234.2	1324.0	1389.1	1315.0	1236.5	1225.3	1227.5
62.5°	17712.4	14617.9	3696.0	1234.2	1187.1	1297.1	1416.0	1362.2	1319.5	1346.4	1362.2
65°	16931.5	13576.6	2719.8	1173.6	1142.2	1303.8	1478.8	1436.2	1319.5	1337.5	1344.2
67.5°	14763.7	11557.0	1965.8	1113.1	1086.1	1324.0	1568.6	1425.0	1243.2	1243.2	1229.8
70°	10639.1	8312.0	1427.2	1052.5	1030.0	1294.8	1573.1	1348.7	1155.7	1149.0	1115.3
72.5°	6402.3	4903.3	1113.1	985.1	944.8	1149.0	1474.4	1258.9	1070.4	1014.3	973.9
75°	3325.7	2457.3	933.5	911.1	810.1	973.9	1348.7	1119.8	915.6	866.2	843.8
77.5°	1425.0	1149.0	801.1	812.4	673.2	819.1	1088.4	969.4	812.4	749.5	729.3
80°	702.4	653.0	632.8	650.8	538.6	632.8	938.0	848.3	688.9	617.1	587.9
82.5°	401.7	381.5	455.5	462.3	383.7	529.6	792.2	718.1	570.0	491.5	444.3
85°	186.3	199.7	276.0	278.3	237.9	363.5	518.4	403.9	302.9	251.3	240.1
87.5°	74.1	87.5	121.2	118.9	69.6	67.3	44.9	24.7	20.2	18.0	15.7
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)