

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: P638287

Luminaire Tested: GWS-SA4E-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638287
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-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30340.4 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

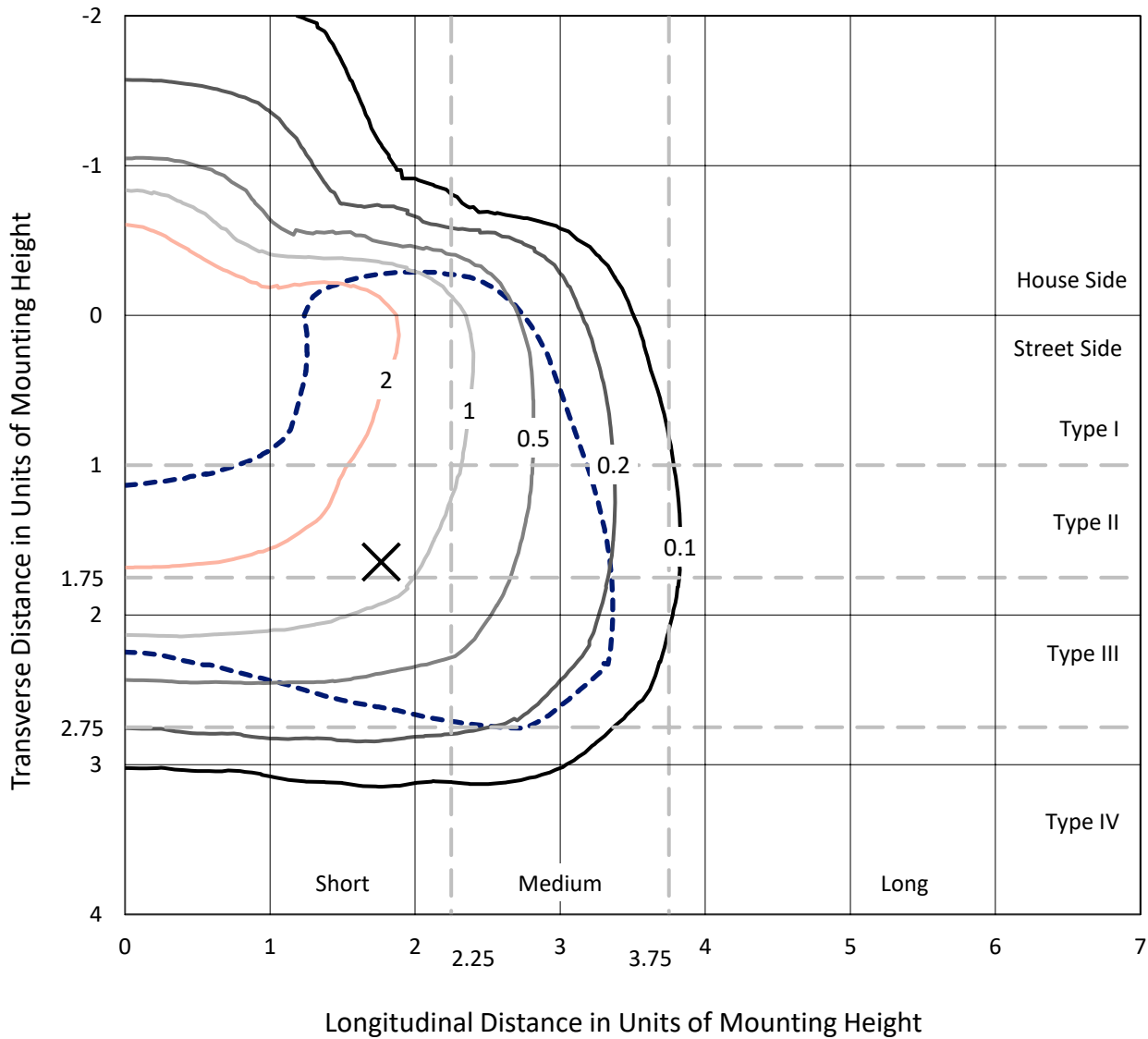
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

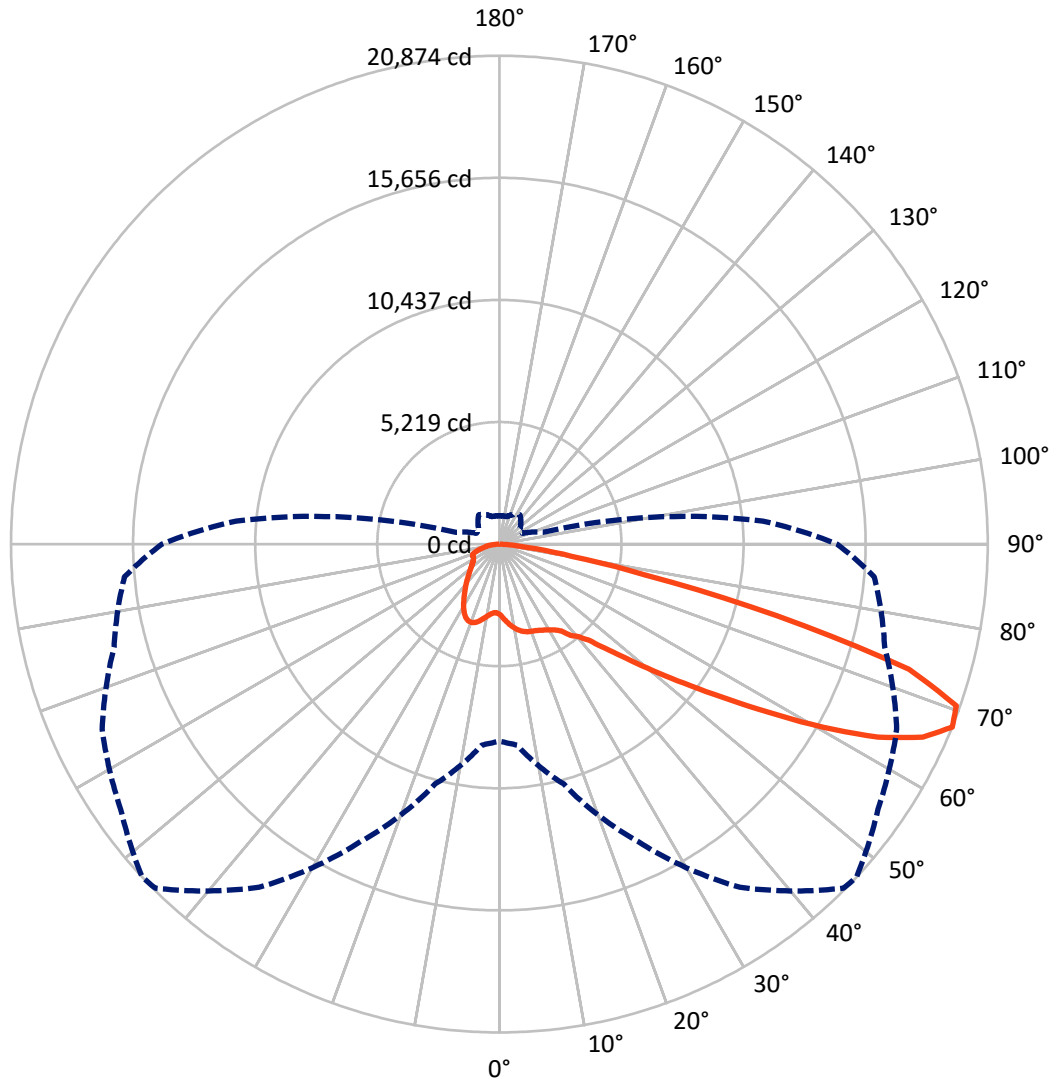
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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	6914.8	0.0	6914.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	23425.6	0.0	23425.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	30340.4	0.0	30340.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.4	1.0
10°-20°	1024.1	3.4
20°-30°	1740.7	5.7
30°-40°	2550.0	8.4
40°-50°	3885.2	12.8
50°-60°	6951.4	22.9
60°-70°	9275.9	30.6
70°-80°	4194.8	13.8
80°-90°	411.0	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°	30340.4	100.0
0°-180°	30340.4	100.0

Coefficient of Utilization



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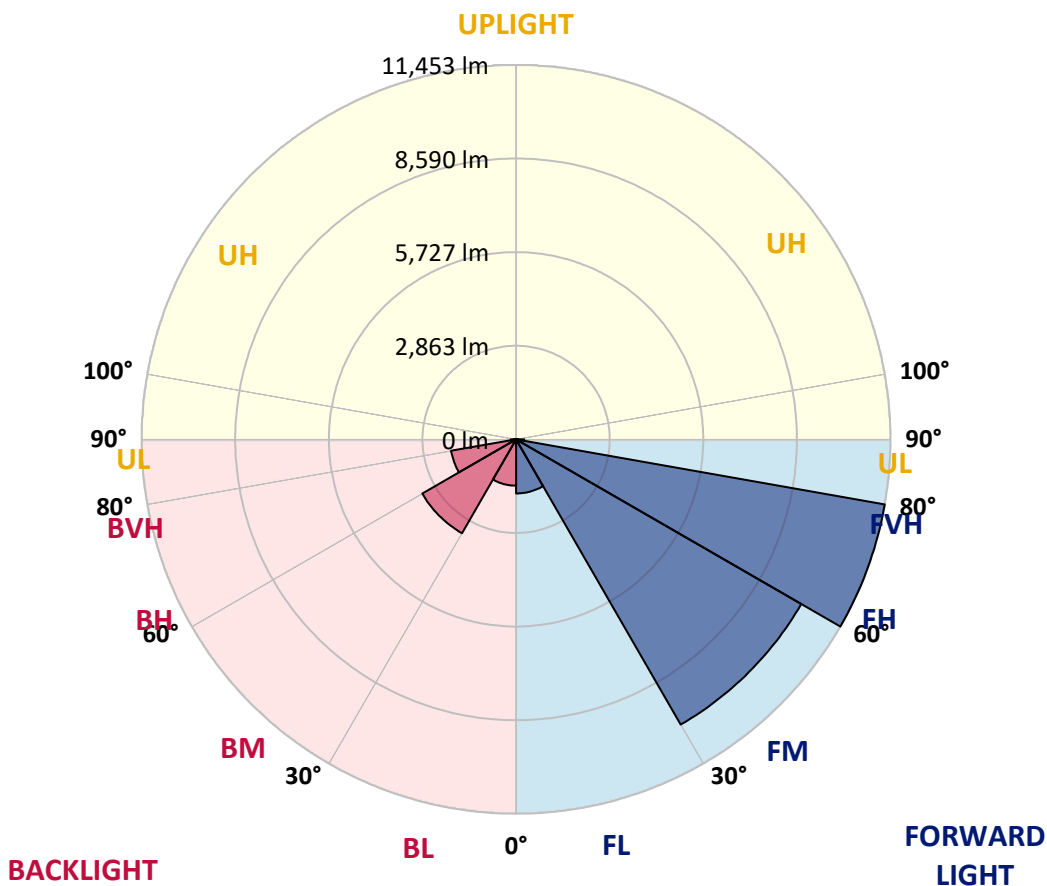
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.7	5.5			
FM (30°-60°)	10073.3	33.2			
FH (60°-80°)	11453.2	37.7			G4/12000
FVH (80°-90°)	244.5	0.8			G3/500
BL (0°-30°)	1417.6	4.7	B3/2500		
BM (30°-60°)	3313.2	10.9	B3/5000		
BH (60°-80°)	2017.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	166.5	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°	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7
2.5°	3207.3	3218.3	3216.1	3198.6	3187.6	3167.8	3170.0	3139.3	3093.3	3062.5	3027.4
5°	3490.3	3507.9	3485.9	3457.4	3413.5	3349.9	3343.3	3273.1	3185.4	3124.0	3060.3
7.5°	3736.0	3747.0	3720.7	3672.4	3608.8	3523.2	3507.9	3424.5	3314.8	3218.3	3126.2
10°	3926.9	3940.1	3905.0	3841.3	3758.0	3672.4	3661.4	3575.9	3459.6	3345.5	3229.3
12.5°	4089.2	4093.6	4056.3	3970.8	3880.8	3793.1	3782.1	3703.1	3595.6	3479.4	3352.1
15°	4183.6	4185.8	4139.7	4045.4	3959.8	3883.0	3876.4	3808.4	3709.7	3600.0	3464.0
17.5°	4177.0	4181.4	4148.5	4065.1	3990.5	3944.4	3937.9	3894.0	3817.2	3718.5	3582.5
20°	4095.8	4100.2	4078.3	4023.4	3983.9	3970.8	3973.0	3959.8	3913.7	3832.6	3694.4
22.5°	4032.2	4038.8	4019.0	3979.5	3975.2	4005.9	4012.5	4019.0	3997.1	3924.7	3790.9
25°	4062.9	4073.9	4043.2	3988.3	3997.1	4065.1	4078.3	4100.2	4082.7	4021.2	3905.0
27.5°	4275.7	4282.3	4203.3	4091.4	4065.1	4137.5	4157.2	4192.3	4179.2	4122.1	4032.2
30°	4769.3	4764.9	4596.0	4321.8	4212.1	4240.6	4256.0	4306.4	4310.8	4273.5	4188.0
32.5°	5464.7	5442.8	5181.7	4745.2	4427.1	4356.9	4374.4	4442.4	4492.9	4453.4	4337.1
35°	6199.7	6179.9	5892.5	5381.4	4824.2	4580.6	4560.9	4613.6	4690.3	4580.6	4413.9
37.5°	6899.5	6868.8	6574.8	5943.0	5313.4	4973.3	4944.8	4892.2	4846.1	4635.5	4508.3
40°	7676.1	7641.0	7384.3	6669.1	5853.0	5273.9	5201.5	4993.1	4951.4	4817.6	4754.0
42.5°	8505.3	8505.3	8292.5	7588.3	6504.6	5703.9	5609.5	5295.8	5339.7	5251.9	5177.4
45°	9334.6	9358.7	9189.8	8514.1	7375.5	6515.6	6364.2	5918.9	6024.2	5984.7	5947.4
47.5°	10041.0	10087.1	10054.2	9459.6	8441.7	7502.8	7272.4	6809.5	7035.5	7129.8	7235.1
50°	10802.2	10852.7	10819.8	10585.1	9690.0	8698.4	8492.2	8013.9	8402.2	8685.2	9029.7
52.5°	11932.1	12004.4	11730.2	11640.3	11205.9	10056.4	9872.1	9328.0	10032.2	10501.7	11269.5
55°	12886.4	12884.2	12787.6	12993.9	12833.7	11717.1	11513.0	11019.4	11918.9	12416.9	13540.1
57.5°	13329.5	13382.2	13713.4	14297.0	14617.3	13746.3	13551.1	13046.5	13943.8	14202.6	15415.8
60°	13557.7	13623.5	14264.1	15418.0	16280.2	15962.1	15885.3	15242.5	15747.1	15716.4	16997.5
62.5°	13237.4	13369.0	14397.9	15931.3	17467.0	18188.8	18164.6	17192.8	17280.5	16980.0	17978.2
65°	11767.5	11910.1	13524.8	15674.7	18144.9	19882.4	19889.0	18958.8	18458.6	17594.2	17813.6
67.5°	8415.4	8619.4	10615.8	14024.9	17905.8	20797.2	20874.0	19759.5	18735.0	17050.2	16084.9
70°	4587.2	4736.4	6300.6	10194.6	15751.5	20577.8	20720.4	19373.4	17515.3	14748.9	12381.8
72.5°	2084.1	2132.4	2930.9	5594.2	10760.6	17712.7	18309.4	17289.3	14384.7	10894.4	7873.5
75°	954.3	976.2	1276.8	2676.4	5622.7	11853.1	12272.1	12877.6	10010.3	6879.7	4104.6
77.5°	598.9	605.5	726.1	1224.1	2803.7	5916.7	6357.6	7667.3	5861.8	3404.8	1715.5
80°	353.2	359.8	451.9	662.5	1316.3	2707.1	3126.2	3031.8	2755.4	1469.8	781.0
82.5°	177.7	184.3	261.1	377.3	717.4	1077.2	1268.0	1274.6	1026.7	796.3	441.0
85°	63.6	65.8	85.6	149.2	304.9	355.4	397.1	484.8	502.4	462.9	212.8
87.5°	0.0	0.0	2.2	4.4	8.8	35.1	37.3	70.2	147.0	164.5	85.6
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°	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7
2.5°	3016.5	2983.6	2972.6	2961.6	2944.1	2937.5	2924.3	2911.2	2911.2	2898.0	2891.4
5°	3031.8	2987.9	2959.4	2946.3	2935.3	2941.9	2941.9	2946.3	2961.6	2952.8	2957.2
7.5°	3086.7	3036.2	2996.7	2985.8	2985.8	3012.1	3029.6	3051.6	3080.1	3084.5	3084.5
10°	3183.2	3124.0	3082.3	3075.7	3086.7	3124.0	3150.3	3176.6	3211.7	3213.9	3218.3
12.5°	3288.5	3229.3	3187.6	3196.4	3207.3	3255.6	3284.1	3306.1	3341.2	3341.2	3339.0
15°	3398.2	3332.4	3297.3	3314.8	3347.7	3402.6	3407.0	3409.2	3426.7	3422.3	3420.1
17.5°	3512.3	3442.1	3415.7	3442.1	3477.2	3503.5	3481.6	3450.8	3444.3	3435.5	3431.1
20°	3624.2	3551.8	3540.8	3560.5	3571.5	3549.6	3481.6	3424.5	3398.2	3385.0	3380.6
22.5°	3720.7	3659.3	3652.7	3652.7	3597.8	3521.0	3420.1	3343.3	3308.2	3290.7	3286.3
25°	3834.8	3777.7	3766.7	3707.5	3567.1	3426.7	3290.7	3220.5	3192.0	3183.2	3185.4
27.5°	3968.6	3929.1	3894.0	3725.1	3479.4	3260.0	3106.4	3075.7	3064.7	3075.7	3082.3
30°	4133.1	4093.6	4014.6	3703.1	3339.0	3042.8	2895.8	2893.6	2926.5	2955.0	2959.4
32.5°	4266.9	4249.4	4119.9	3632.9	3141.5	2803.7	2678.6	2687.4	2746.6	2786.1	2792.7
35°	4372.2	4400.8	4207.7	3516.7	2906.8	2577.7	2479.0	2483.4	2516.3	2571.1	2573.3
37.5°	4521.4	4617.9	4286.7	3339.0	2636.9	2382.5	2292.5	2259.6	2255.2	2270.6	2275.0
40°	4822.0	4966.8	4343.7	3080.1	2375.9	2207.0	2106.0	2042.4	1987.6	1945.9	1932.7
42.5°	5276.1	5442.8	4376.6	2766.4	2143.3	2033.6	1919.6	1838.4	1741.9	1654.1	1623.4
45°	6109.7	6164.6	4376.6	2432.9	1937.1	1871.3	1757.2	1660.7	1537.9	1434.7	1412.8
47.5°	7443.5	7268.0	4381.0	2110.4	1755.0	1728.7	1630.0	1520.3	1384.3	1298.7	1285.6
50°	9453.1	8836.6	4471.0	1842.8	1603.7	1608.1	1535.7	1415.0	1292.1	1228.5	1217.6
52.5°	11730.2	10769.3	4712.3	1645.3	1476.4	1509.3	1469.8	1353.6	1243.9	1189.0	1178.1
55°	13871.4	12546.3	4918.5	1504.9	1368.9	1426.0	1423.8	1316.3	1217.6	1162.7	1156.1
57.5°	15692.2	13763.9	4887.8	1390.9	1276.8	1349.2	1382.1	1292.1	1200.0	1153.9	1147.4
60°	16824.2	14408.8	4451.2	1285.6	1206.6	1294.3	1358.0	1285.6	1208.8	1197.8	1200.0
62.5°	17315.6	14290.4	3613.2	1206.6	1160.5	1268.0	1384.3	1331.6	1290.0	1316.3	1331.6
65°	16552.2	13272.5	2658.9	1147.4	1116.6	1274.6	1445.7	1404.0	1290.0	1307.5	1314.1
67.5°	14433.0	11298.0	1921.8	1088.1	1061.8	1294.3	1533.5	1393.1	1215.4	1215.4	1202.2
70°	10400.8	8125.8	1395.3	1028.9	1007.0	1265.8	1537.9	1318.5	1129.8	1123.2	1090.3
72.5°	6258.9	4793.4	1088.1	963.1	923.6	1123.2	1441.3	1230.7	1046.4	991.6	952.1
75°	3251.2	2402.2	912.6	890.7	792.0	952.1	1318.5	1094.7	895.1	846.8	824.9
77.5°	1393.1	1123.2	783.2	794.2	658.1	800.7	1064.0	947.7	794.2	732.7	713.0
80°	686.7	638.4	618.7	636.2	526.5	618.7	917.0	829.3	673.5	603.3	574.8
82.5°	392.7	372.9	445.3	451.9	375.1	517.7	774.4	702.0	557.2	480.4	434.4
85°	182.1	195.2	269.8	272.0	232.5	355.4	506.8	394.9	296.2	245.7	234.7
87.5°	72.4	85.6	118.5	116.3	68.0	65.8	43.9	24.1	19.7	17.6	15.4
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)