

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: P638303

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32225.1 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

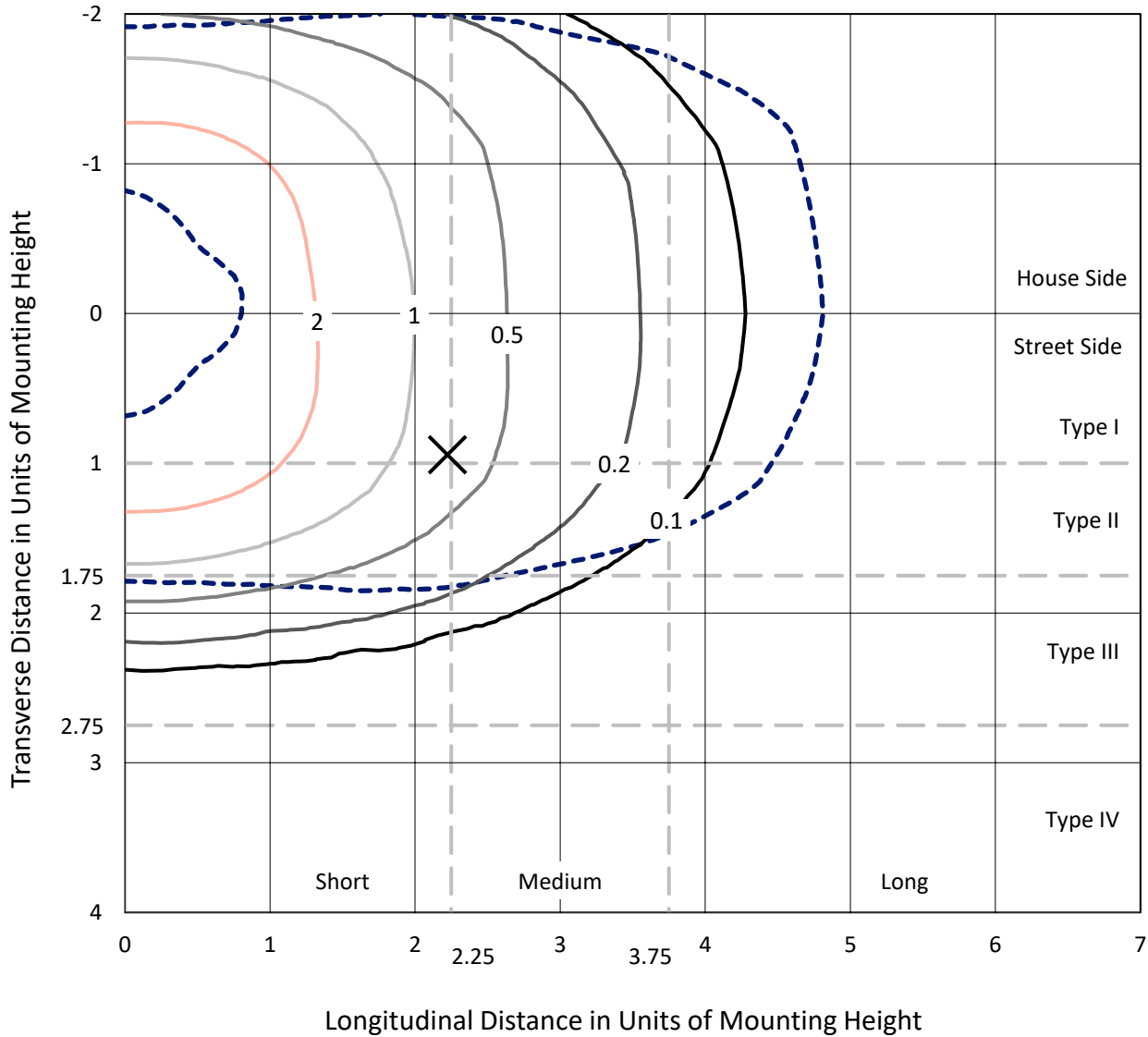
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

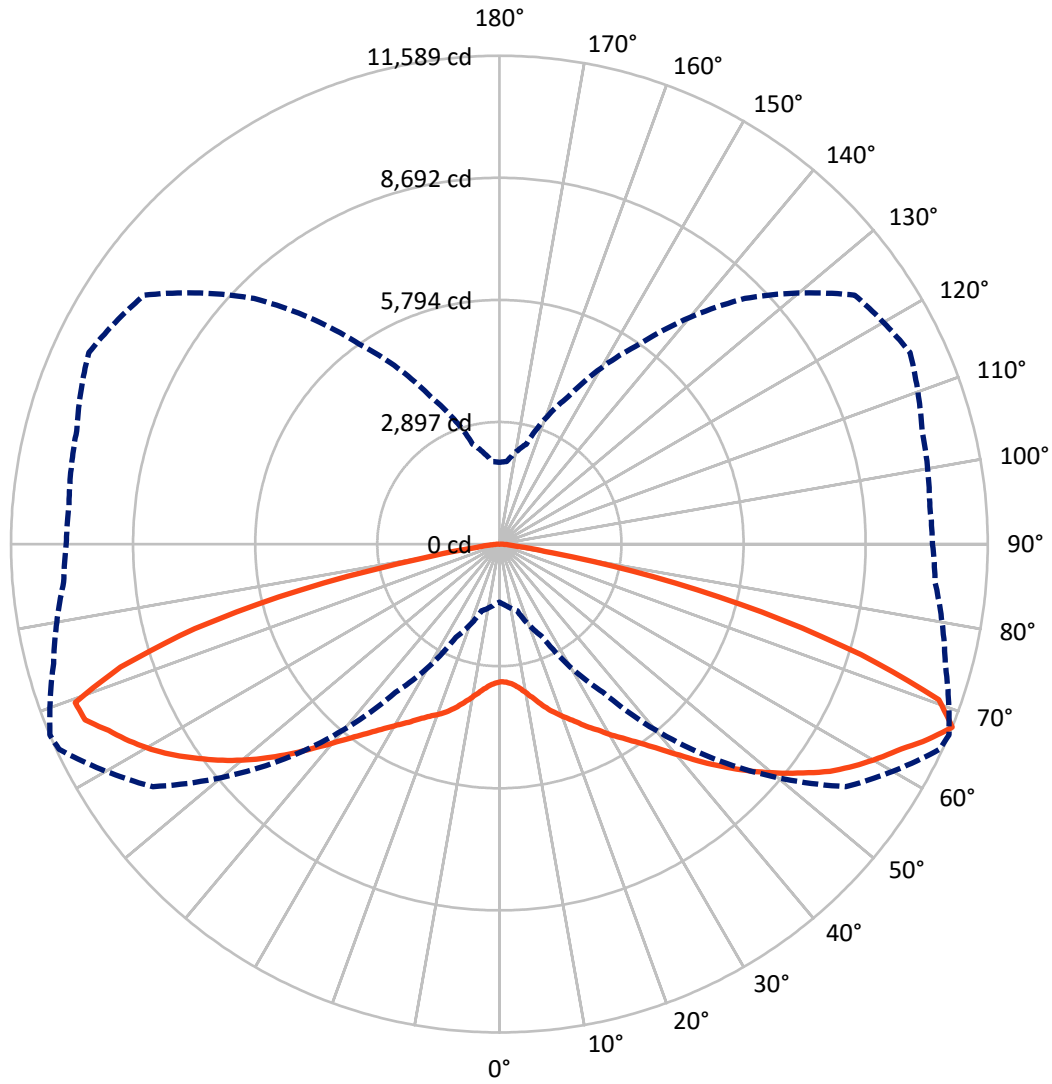
✕ Max cd
 - - - 1/2 Max cd



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 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15934.7	0.0	15934.7
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	16290.4	0.0	16290.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	32225.1	0.0	32225.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.1	1.0
10°-20°	1081.6	3.4
20°-30°	2122.0	6.6
30°-40°	3615.2	11.2
40°-50°	5805.2	18.0
50°-60°	7888.1	24.5
60°-70°	7545.5	23.4
70°-80°	3587.4	11.1
80°-90°	260.0	0.8
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°	32225.1	100.0
0°-180°	32225.1	100.0

Coefficient of Utilization



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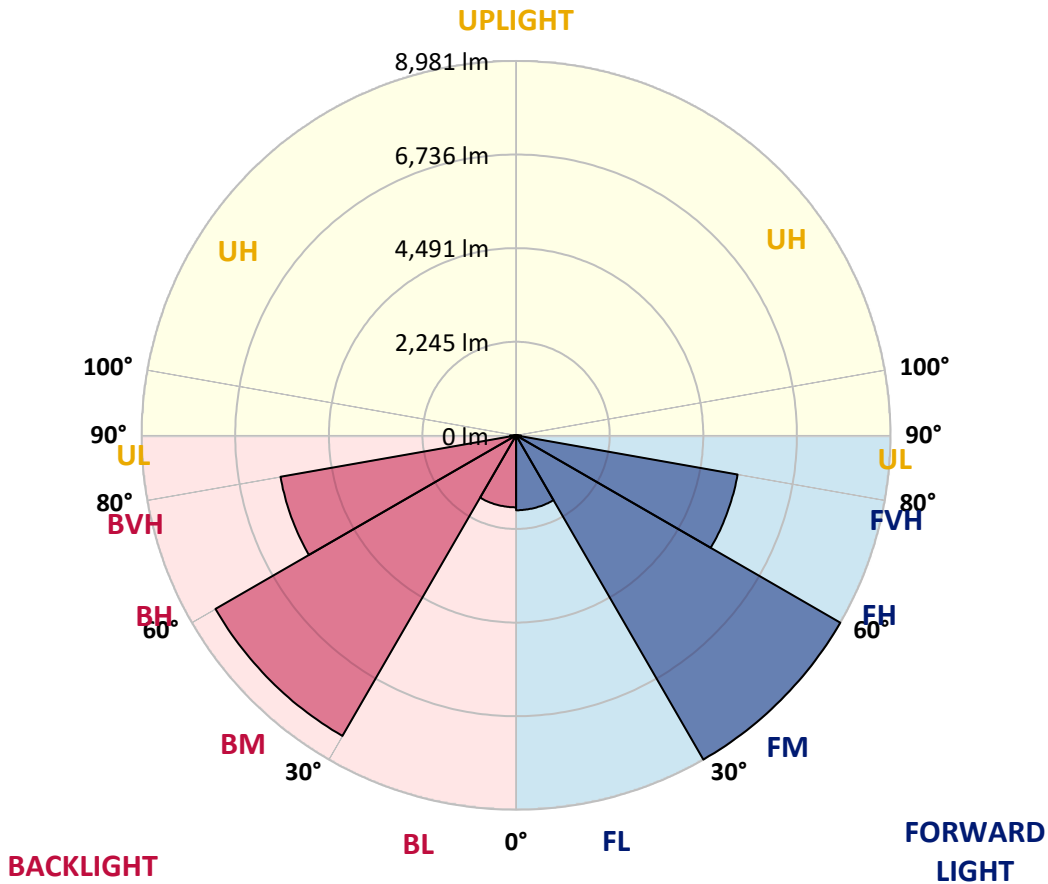
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1796.8	5.6			
FM (30°-60°)	8981.4	27.9			
FH (60°-80°)	5395.3	16.7			G3/7500
FVH (80°-90°)	116.8	0.4			G2/225
BL (0°-30°)	1726.9	5.4	B3/2500		
BM (30°-60°)	8327.1	25.8	B4/8500		
BH (60°-80°)	5737.6	17.8	B5		G5
BVH (80°-90°)	143.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0
2.5°	3195.6	3200.1	3206.9	3220.3	3233.8	3254.0	3274.2	3271.9	3280.9	3287.7	3294.4
5°	3177.7	3182.2	3193.4	3211.4	3231.6	3265.2	3307.9	3325.8	3339.3	3364.0	3386.4
7.5°	3215.8	3224.8	3240.5	3265.2	3296.6	3339.3	3397.6	3429.0	3449.2	3494.1	3532.3
10°	3267.5	3278.7	3310.1	3357.2	3404.4	3469.4	3543.5	3590.6	3604.1	3662.4	3734.2
12.5°	3316.8	3330.3	3381.9	3467.2	3552.5	3640.0	3727.5	3785.9	3790.3	3868.9	3949.7
15°	3395.4	3406.6	3476.2	3586.1	3716.3	3837.5	3945.2	3985.6	4003.5	4059.6	4160.6
17.5°	3568.2	3581.6	3671.4	3790.3	3927.2	4055.2	4162.9	4196.5	4196.5	4243.7	4326.7
20°	3754.4	3767.9	3886.8	4039.4	4205.5	4335.7	4418.7	4387.3	4376.1	4389.5	4447.9
22.5°	3963.1	3987.8	4102.3	4279.6	4483.8	4643.1	4685.8	4591.5	4560.1	4528.7	4542.1
25°	4230.2	4259.4	4371.6	4560.1	4759.8	4928.1	4952.8	4806.9	4789.0	4679.0	4638.6
27.5°	4537.6	4560.1	4699.2	4885.5	5071.7	5213.1	5240.1	5060.5	4999.9	4847.3	4753.1
30°	4934.9	4955.0	5076.2	5260.3	5421.8	5520.6	5554.2	5307.4	5260.3	5026.9	4881.0
32.5°	5368.0	5376.9	5500.4	5677.7	5821.3	5915.5	5868.4	5581.2	5511.6	5249.0	5049.3
35°	5863.9	5863.9	6023.3	6166.9	6281.3	6308.3	6218.5	5890.9	5810.1	5525.1	5276.0
37.5°	6350.9	6364.4	6512.5	6683.0	6784.0	6779.5	6615.7	6256.6	6164.6	5854.9	5578.9
40°	6878.3	6907.4	7055.6	7246.3	7342.8	7329.3	7078.0	6678.5	6584.3	6218.5	5949.2
42.5°	7363.0	7410.1	7582.9	7778.2	7883.6	7874.7	7612.1	7163.3	7071.3	6658.3	6389.0
45°	7749.0	7798.4	8013.8	8285.3	8453.7	8437.9	8173.1	7666.0	7553.8	7120.6	6824.4
47.5°	8087.9	8139.5	8379.6	8666.8	8933.9	8960.8	8718.5	8173.1	8054.2	7616.6	7282.2
50°	8348.2	8372.9	8642.2	8956.3	9266.0	9416.4	9205.4	8682.6	8538.9	8105.8	7728.8
52.5°	8328.0	8361.6	8693.8	9120.2	9535.3	9782.2	9636.3	9162.8	9023.7	8552.4	8184.4
55°	7917.3	7951.0	8345.9	8967.6	9685.7	10049.2	10033.5	9620.6	9519.6	9008.0	8657.9
57.5°	7318.1	7392.2	7784.9	8455.9	9488.2	10262.4	10325.3	10038.0	9932.5	9454.5	9126.9
60°	6245.4	6344.2	6797.5	7668.2	8855.4	10190.6	10637.2	10390.3	10325.3	9869.7	9551.0
62.5°	4537.6	4609.5	5213.1	6355.4	7917.3	9679.0	10899.8	10753.9	10704.5	10242.2	9934.8
65°	2717.6	2881.5	3366.2	4495.0	6386.8	8714.0	10756.1	11229.6	11178.0	10626.0	10262.4
67.5°	1375.7	1449.7	1640.5	2437.1	4295.3	7210.4	10035.8	11525.9	11588.7	10953.6	10379.1
70°	852.8	873.0	926.8	1202.9	2145.4	4737.4	8206.8	10753.9	11061.3	10902.0	10076.2
72.5°	684.5	688.9	697.9	749.5	1030.1	2215.0	5188.4	8422.2	8976.5	10181.6	9643.0
75°	567.8	570.0	572.3	588.0	641.8	904.4	2524.7	5787.6	6436.2	8653.4	8940.6
77.5°	455.6	444.3	453.3	460.0	473.5	504.9	870.7	3087.9	3745.5	5679.9	6914.2
80°	296.2	291.7	309.7	316.4	329.9	350.1	464.5	1048.0	1272.4	2066.8	2199.3
82.5°	159.3	150.4	188.5	181.8	188.5	204.2	273.8	383.7	430.9	623.9	527.4
85°	49.4	49.4	51.6	60.6	74.1	71.8	118.9	188.5	208.7	267.1	197.5
87.5°	9.0	9.0	9.0	9.0	9.0	11.2	24.7	38.2	51.6	92.0	69.6
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°	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0	3263.0
2.5°	3307.9	3287.7	3298.9	3305.6	3303.4	3298.9	3276.4	3271.9	3260.7	3242.8	3238.3
5°	3406.6	3384.2	3386.4	3379.7	3357.2	3328.1	3278.7	3254.0	3233.8	3211.4	3209.1
7.5°	3561.4	3536.8	3530.0	3498.6	3435.8	3368.4	3289.9	3245.0	3211.4	3182.2	3177.7
10°	3758.9	3734.2	3711.8	3637.7	3534.5	3444.7	3341.5	3276.4	3227.1	3191.2	3184.4
12.5°	3978.8	3958.7	3902.5	3794.8	3671.4	3565.9	3460.5	3379.7	3307.9	3254.0	3247.3
15°	4223.5	4178.6	4093.3	3954.2	3837.5	3752.2	3624.3	3514.3	3399.9	3328.1	3312.3
17.5°	4394.0	4355.9	4254.9	4120.2	4028.2	3954.2	3803.8	3646.7	3491.9	3386.4	3364.0
20°	4515.2	4474.8	4360.4	4261.6	4232.4	4169.6	3994.6	3812.8	3633.3	3503.1	3473.9
22.5°	4602.7	4560.1	4443.4	4394.0	4434.4	4423.2	4252.6	4046.2	3833.0	3678.1	3642.2
25°	4685.8	4645.4	4542.1	4560.1	4667.8	4701.5	4517.4	4277.3	4035.0	3853.2	3810.5
27.5°	4764.3	4712.7	4665.6	4764.3	4916.9	4979.7	4784.5	4513.0	4250.4	4064.1	4030.5
30°	4885.5	4824.9	4818.2	4961.8	5204.1	5258.0	5042.6	4771.0	4510.7	4322.2	4279.6
32.5°	5038.1	4982.0	4986.5	5201.9	5482.4	5527.3	5343.3	5089.7	4829.4	4640.9	4582.5
35°	5244.5	5175.0	5213.1	5477.9	5760.7	5843.7	5695.6	5484.7	5231.1	5038.1	4973.0
37.5°	5529.5	5428.6	5507.1	5785.4	6070.4	6193.8	6079.4	5922.3	5670.9	5475.7	5415.1
40°	5893.1	5810.1	5841.5	6148.9	6442.9	6591.0	6519.2	6364.4	6115.3	5911.0	5841.5
42.5°	6324.0	6240.9	6229.7	6557.4	6851.3	7075.8	7006.2	6864.8	6606.7	6373.3	6306.0
45°	6745.9	6669.6	6685.3	7019.7	7349.5	7594.1	7524.6	7358.5	7078.0	6808.7	6754.8
47.5°	7185.7	7122.9	7136.3	7490.9	7854.5	8099.1	8011.6	7809.6	7481.9	7194.7	7129.6
50°	7636.8	7565.0	7585.2	7957.7	8350.4	8581.6	8446.9	8148.5	7787.1	7506.6	7450.5
52.5°	8085.6	8000.3	8052.0	8404.3	8810.5	8994.5	8745.4	8384.1	8034.0	7755.7	7692.9
55°	8601.8	8512.0	8455.9	8832.9	9234.6	9310.9	8969.8	8547.9	8132.7	7816.3	7778.2
57.5°	9073.0	8996.7	8891.3	9268.3	9564.5	9508.4	9142.6	8503.0	7892.6	7486.4	7432.6
60°	9494.9	9429.9	9337.8	9658.8	9793.4	9667.7	9003.5	7971.2	7300.2	6876.0	6851.3
62.5°	9883.2	9813.6	9728.3	10002.1	9984.2	9692.4	8370.6	7154.3	6256.6	5801.1	5760.7
65°	10190.6	10127.8	10103.1	10318.5	10289.4	9209.9	7385.4	5816.8	4571.3	4057.4	4041.7
67.5°	10278.1	10253.4	10385.9	10751.6	10296.1	8240.5	5792.1	3857.7	2455.1	1968.1	1938.9
70°	9950.5	9948.2	10327.5	10850.4	9362.5	6294.8	3417.8	1739.2	1234.3	1095.1	1077.2
72.5°	9524.1	9517.4	9818.1	9360.3	6943.4	3444.7	1438.5	931.3	772.0	733.8	733.8
75°	8823.9	8806.0	9032.6	7120.6	3904.8	1297.1	763.0	639.6	605.9	599.2	599.2
77.5°	7192.4	7042.1	6685.3	4400.7	1362.2	637.3	504.9	502.7	482.5	480.2	480.2
80°	2365.3	2365.3	2749.1	1678.6	601.4	392.7	356.8	374.8	354.6	341.1	338.9
82.5°	386.0	531.9	756.3	480.2	325.4	244.6	219.9	233.4	244.6	195.2	195.2
85°	152.6	199.7	291.7	224.4	150.4	98.7	105.5	116.7	103.2	89.8	87.5
87.5°	58.3	71.8	103.2	53.9	31.4	18.0	11.2	11.2	9.0	9.0	9.0
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)