

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: P638963

Luminaire Tested: GWS-SA4F-830-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638963
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-SA4F-830-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27824.1 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

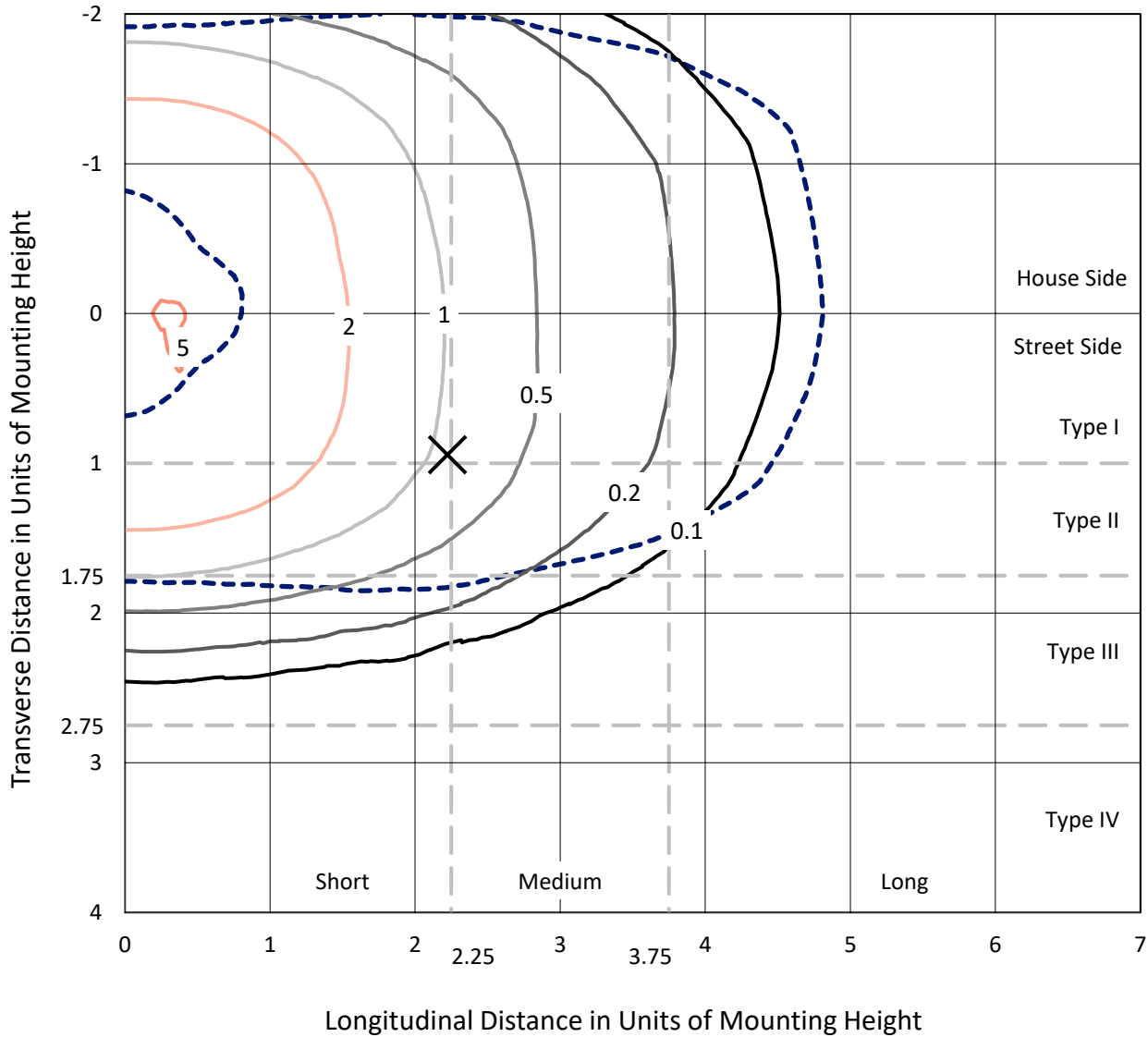
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

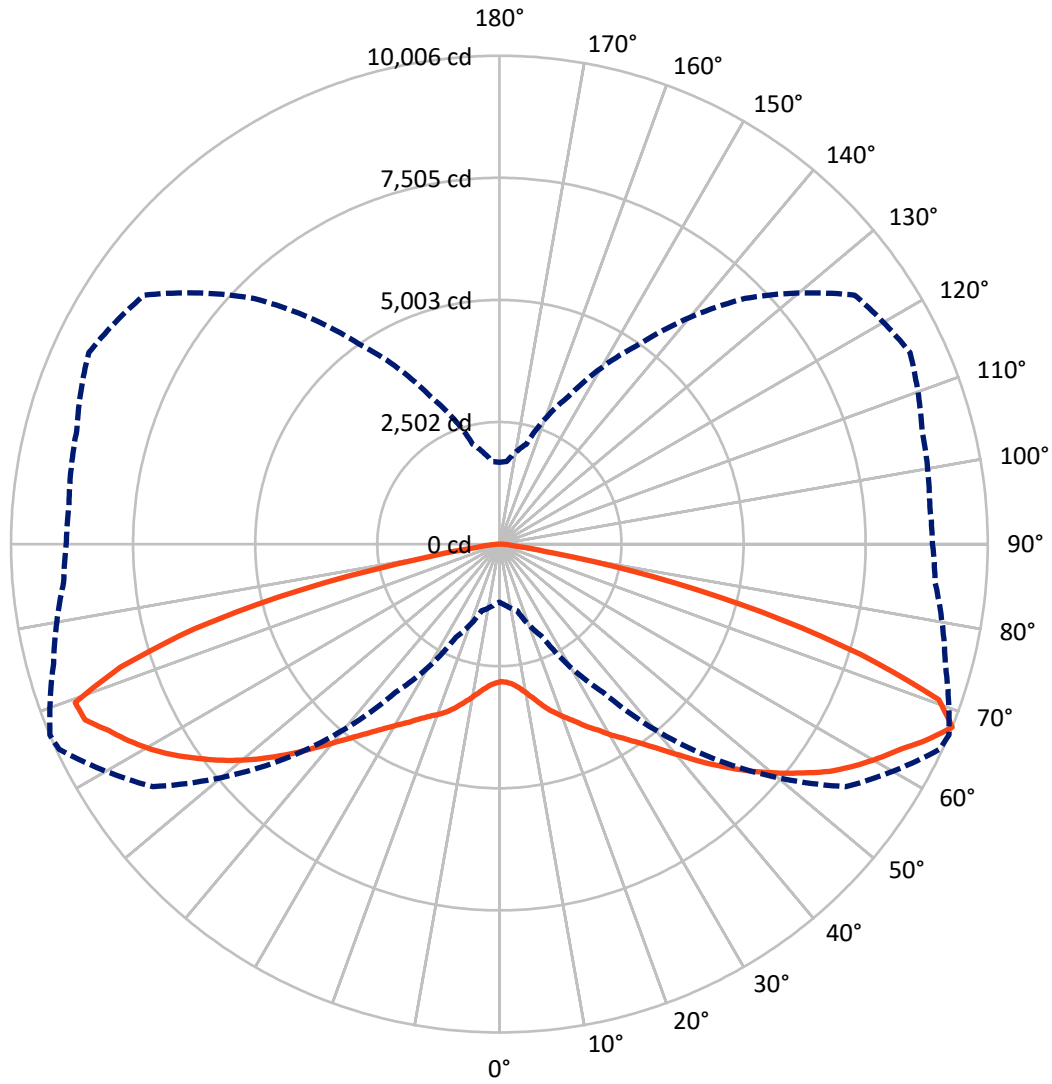
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	13758.5	0.0	13758.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	14065.6	0.0	14065.6
	% Fixture	50.6	0.0	50.6
Total	Lumens	27824.1	0.0	27824.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.0
10°-20°	933.8	3.4
20°-30°	1832.2	6.6
30°-40°	3121.4	11.2
40°-50°	5012.4	18.0
50°-60°	6810.8	24.5
60°-70°	6515.0	23.4
70°-80°	3097.5	11.1
80°-90°	224.5	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°	27824.1	100.0
0°-180°	27824.1	100.0

Coefficient of Utilization



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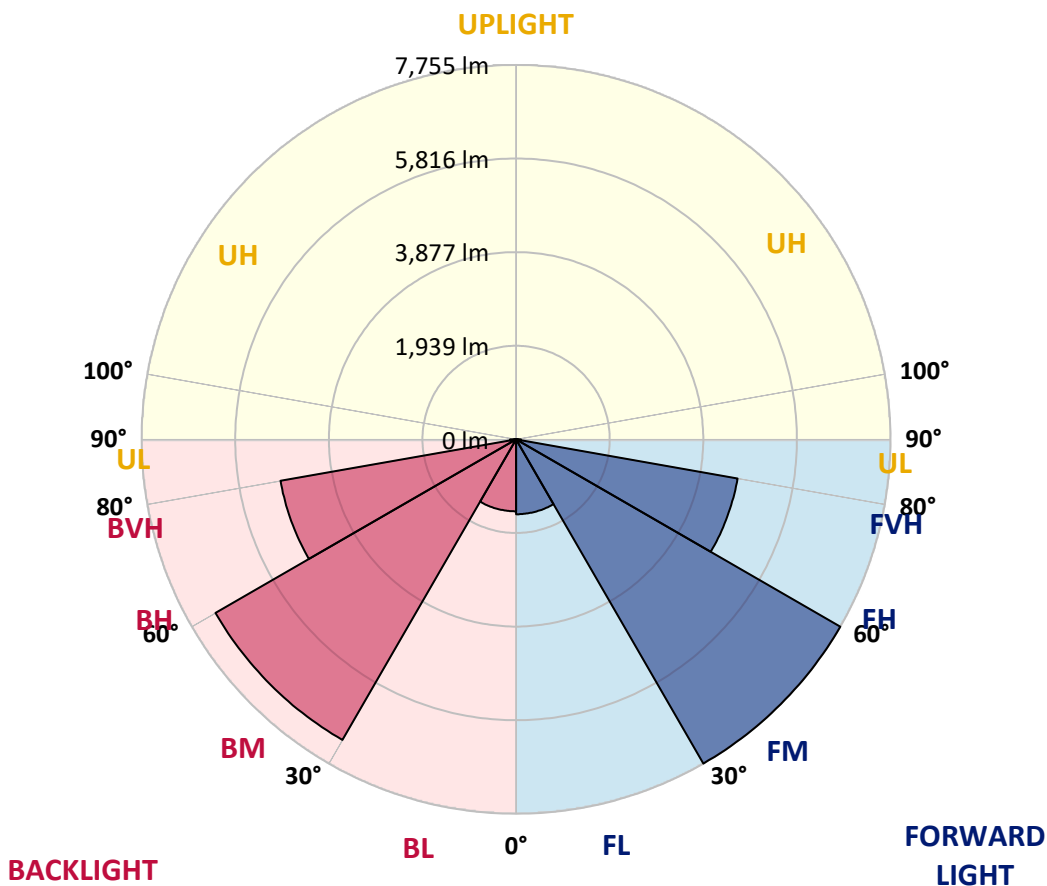
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1551.4	5.6			
FM (30°-60°)	7754.8	27.9			
FH (60°-80°)	4658.5	16.7			G2/5000
FVH (80°-90°)	100.9	0.4			G2/225
BL (0°-30°)	1491.0	5.4	B3/2500		
BM (30°-60°)	7189.9	25.8	B4/8500		
BH (60°-80°)	4954.0	17.8	B4/5000		G4/5000
BVH (80°-90°)	123.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3
2.5°	2759.2	2763.1	2768.9	2780.5	2792.2	2809.6	2827.0	2825.1	2832.8	2838.7	2844.5
5°	2743.7	2747.6	2757.3	2772.8	2790.2	2819.3	2856.1	2871.6	2883.2	2904.5	2923.9
7.5°	2776.7	2784.4	2798.0	2819.3	2846.4	2883.2	2933.6	2960.7	2978.2	3016.9	3049.9
10°	2821.2	2830.9	2858.0	2898.7	2939.4	2995.6	3059.6	3100.2	3111.9	3162.2	3224.3
12.5°	2863.8	2875.5	2920.0	2993.7	3067.3	3142.9	3218.4	3268.8	3272.7	3340.5	3410.3
15°	2931.7	2941.4	3001.4	3096.4	3208.8	3313.4	3406.4	3441.3	3456.8	3505.2	3592.4
17.5°	3080.9	3092.5	3170.0	3272.7	3390.9	3501.3	3594.3	3623.4	3623.4	3664.1	3735.8
20°	3241.7	3253.3	3356.0	3487.8	3631.2	3743.5	3815.2	3788.1	3778.4	3790.0	3840.4
22.5°	3421.9	3443.2	3542.0	3695.1	3871.4	4009.0	4045.8	3964.4	3937.3	3910.2	3921.8
25°	3652.5	3677.7	3774.5	3937.3	4109.8	4255.1	4276.4	4150.4	4134.9	4040.0	4005.1
27.5°	3917.9	3937.3	4057.4	4218.3	4379.1	4501.2	4524.4	4369.4	4317.1	4185.3	4103.9
30°	4260.9	4278.3	4383.0	4541.9	4681.4	4766.6	4795.7	4582.5	4541.9	4340.3	4214.4
32.5°	4634.9	4642.6	4749.2	4902.3	5026.3	5107.6	5067.0	4818.9	4758.9	4532.2	4359.7
35°	5063.1	5063.1	5200.7	5324.7	5423.5	5446.7	5369.2	5086.3	5016.6	4770.5	4555.4
37.5°	5483.6	5495.2	5623.1	5770.3	5857.5	5853.6	5712.2	5402.2	5322.7	5055.3	4817.0
40°	5938.9	5964.1	6092.0	6256.7	6340.0	6328.4	6111.4	5766.5	5685.1	5369.2	5136.7
42.5°	6357.4	6398.1	6547.3	6715.9	6807.0	6799.2	6572.5	6185.0	6105.5	5749.0	5516.5
45°	6690.7	6733.3	6919.4	7153.8	7299.1	7285.6	7056.9	6619.0	6522.1	6148.2	5892.4
47.5°	6983.3	7027.9	7235.2	7483.2	7713.8	7737.0	7527.8	7056.9	6954.2	6576.4	6287.7
50°	7208.1	7229.4	7461.9	7733.2	8000.6	8130.4	7948.2	7496.8	7372.8	6998.8	6673.3
52.5°	7190.6	7219.7	7506.5	7874.6	8233.1	8446.2	8320.3	7911.4	7791.3	7384.4	7066.6
55°	6836.0	6865.1	7206.1	7742.9	8362.9	8676.8	8663.2	8306.7	8219.5	7777.7	7475.5
57.5°	6318.7	6382.6	6721.7	7301.1	8192.4	8860.9	8915.1	8667.1	8576.0	8163.3	7880.4
60°	5392.5	5477.7	5869.1	6621.0	7646.0	8798.9	9184.5	8971.3	8915.1	8521.8	8246.6
62.5°	3917.9	3979.9	4501.2	5487.4	6836.0	8357.1	9411.2	9285.2	9242.6	8843.4	8578.0
65°	2346.5	2487.9	2906.5	3881.1	5514.6	7523.9	9287.2	9696.0	9651.4	9174.8	8860.9
67.5°	1187.8	1251.7	1416.4	2104.3	3708.7	6225.7	8665.2	9951.8	10006.0	9457.7	8961.6
70°	736.3	753.7	800.3	1038.6	1852.4	4090.4	7086.0	9285.2	9550.7	9413.1	8700.1
72.5°	591.0	594.9	602.6	647.2	889.4	1912.5	4479.9	7272.0	7750.6	8791.1	8326.1
75°	490.2	492.2	494.1	507.7	554.2	780.9	2179.9	4997.2	5557.2	7471.6	7719.6
77.5°	393.3	383.7	391.4	397.2	408.8	436.0	751.8	2666.2	3233.9	4904.2	5969.9
80°	255.8	251.9	267.4	273.2	284.8	302.3	401.1	904.9	1098.6	1784.6	1898.9
82.5°	137.6	129.8	162.8	156.9	162.8	176.3	236.4	331.3	372.0	538.7	455.3
85°	42.6	42.6	44.6	52.3	63.9	62.0	102.7	162.8	180.2	230.6	170.5
87.5°	7.8	7.8	7.8	7.8	7.8	9.7	21.3	32.9	44.6	79.4	60.1
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°	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3	2817.3
2.5°	2856.1	2838.7	2848.3	2854.2	2852.2	2848.3	2829.0	2825.1	2815.4	2799.9	2796.0
5°	2941.4	2922.0	2923.9	2918.1	2898.7	2873.5	2830.9	2809.6	2792.2	2772.8	2770.8
7.5°	3075.1	3053.7	3047.9	3020.8	2966.5	2908.4	2840.6	2801.8	2772.8	2747.6	2743.7
10°	3245.6	3224.3	3204.9	3140.9	3051.8	2974.3	2885.2	2829.0	2786.3	2755.3	2749.5
12.5°	3435.5	3418.0	3369.6	3276.6	3170.0	3078.9	2987.9	2918.1	2856.1	2809.6	2803.8
15°	3646.7	3607.9	3534.3	3414.1	3313.4	3239.8	3129.3	3034.4	2935.5	2873.5	2860.0
17.5°	3793.9	3761.0	3673.8	3557.5	3478.1	3414.1	3284.3	3148.7	3015.0	2923.9	2904.5
20°	3898.6	3863.7	3764.9	3679.6	3654.4	3600.2	3449.0	3292.1	3137.1	3024.7	2999.5
22.5°	3974.1	3937.3	3836.5	3793.9	3828.8	3819.1	3671.8	3493.6	3309.5	3175.8	3144.8
25°	4045.8	4010.9	3921.8	3937.3	4030.3	4059.4	3900.5	3693.2	3483.9	3326.9	3290.1
27.5°	4113.6	4069.1	4028.4	4113.6	4245.4	4299.6	4131.1	3896.6	3669.9	3509.1	3480.0
30°	4218.3	4166.0	4160.1	4284.1	4493.4	4539.9	4353.9	4119.4	3894.7	3731.9	3695.1
32.5°	4350.0	4301.6	4305.5	4491.5	4733.7	4772.4	4613.5	4394.6	4169.8	4007.1	3956.7
35°	4528.3	4468.2	4501.2	4729.8	4974.0	5045.6	4917.8	4735.6	4516.7	4350.0	4293.8
37.5°	4774.4	4687.2	4755.0	4995.3	5241.3	5347.9	5249.1	5113.5	4896.4	4727.9	4675.6
40°	5088.3	5016.6	5043.7	5309.2	5563.0	5690.9	5628.9	5495.2	5280.1	5103.8	5043.7
42.5°	5460.3	5388.6	5378.9	5661.8	5915.6	6109.4	6049.3	5927.3	5704.4	5502.9	5444.8
45°	5824.6	5758.7	5772.3	6061.0	6345.8	6557.0	6496.9	6353.6	6111.4	5878.8	5832.3
47.5°	6204.4	6150.1	6161.7	6467.9	6781.8	6993.0	6917.4	6743.0	6460.1	6212.1	6155.9
50°	6593.8	6531.8	6549.3	6870.9	7210.0	7409.6	7293.3	7035.6	6723.7	6481.4	6433.0
52.5°	6981.4	6907.7	6952.3	7256.5	7607.2	7766.1	7551.0	7239.1	6936.8	6696.5	6642.3
55°	7427.0	7349.5	7301.1	7626.6	7973.4	8039.3	7744.8	7380.5	7022.0	6748.8	6715.9
57.5°	7833.9	7768.0	7677.0	8002.5	8258.3	8209.8	7894.0	7341.8	6814.7	6464.0	6417.5
60°	8198.2	8142.0	8062.6	8339.7	8455.9	8347.4	7773.9	6882.5	6303.2	5937.0	5915.6
62.5°	8533.4	8473.3	8399.7	8636.1	8620.6	8368.7	7227.4	6177.2	5402.2	5008.8	4974.0
65°	8798.9	8744.6	8723.3	8909.3	8884.1	7952.1	6376.8	5022.4	3947.0	3503.3	3489.7
67.5°	8874.4	8853.1	8967.5	9283.3	8889.9	7115.1	5001.1	3330.8	2119.8	1699.3	1674.1
70°	8591.5	8589.6	8917.1	9368.5	8083.9	5435.1	2951.0	1501.7	1065.7	945.6	930.1
72.5°	8223.4	8217.6	8477.2	8081.9	5995.1	2974.3	1242.0	804.1	666.6	633.6	633.6
75°	7618.8	7603.3	7799.0	6148.2	3371.5	1120.0	658.8	552.2	523.2	517.4	517.4
77.5°	6210.2	6080.4	5772.3	3799.7	1176.2	550.3	436.0	434.0	416.6	414.7	414.7
80°	2042.3	2042.3	2373.6	1449.4	519.3	339.1	308.1	323.6	306.1	294.5	292.6
82.5°	333.3	459.2	653.0	414.7	281.0	211.2	189.9	201.5	211.2	168.6	168.6
85°	131.8	172.5	251.9	193.8	129.8	85.3	91.1	100.8	89.1	77.5	75.6
87.5°	50.4	62.0	89.1	46.5	27.1	15.5	9.7	9.7	7.8	7.8	7.8
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)