

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: P640338

Luminaire Tested: GWS-SA5D-760-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640338
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-SA5D-760-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31200.1 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

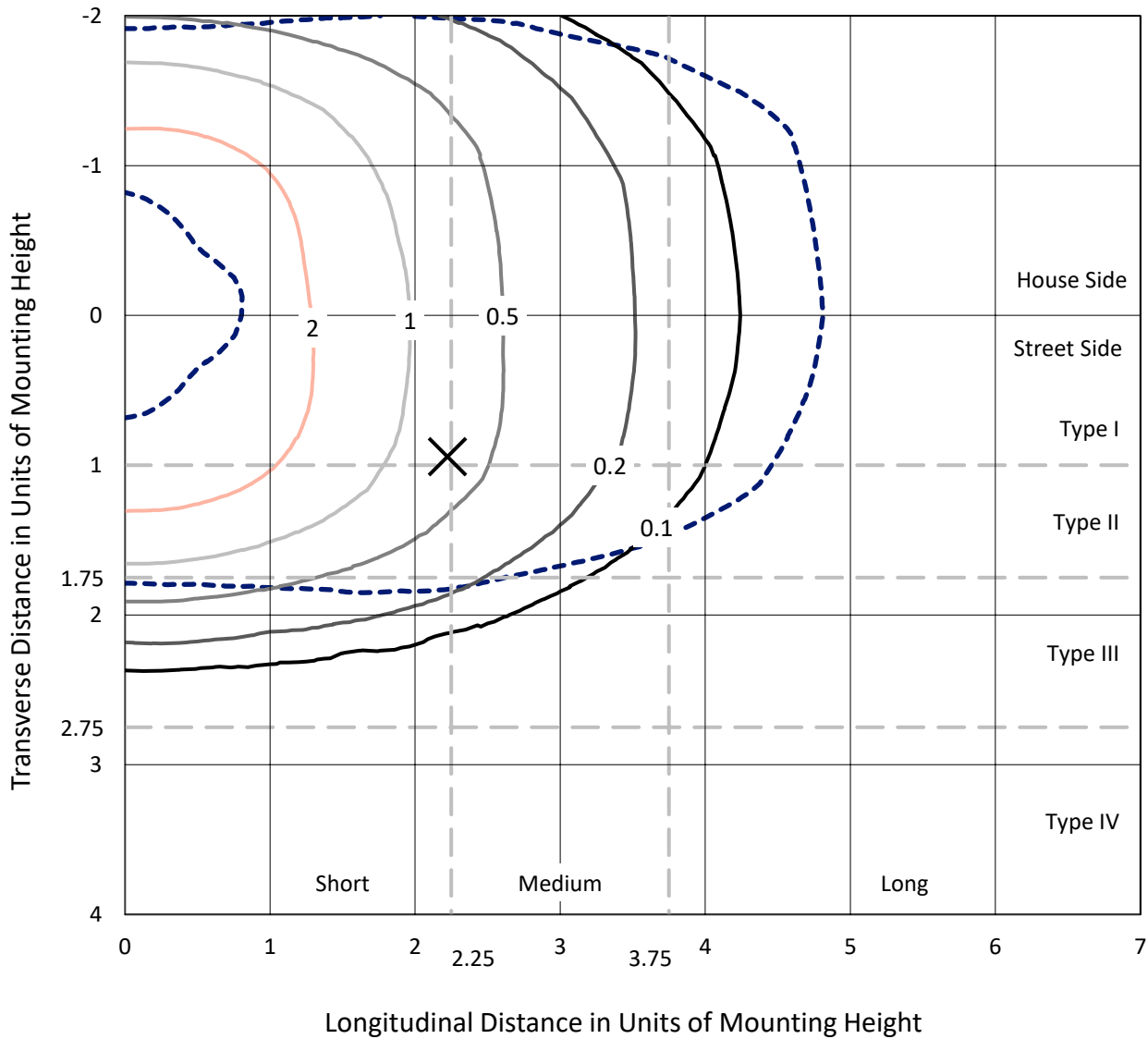
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

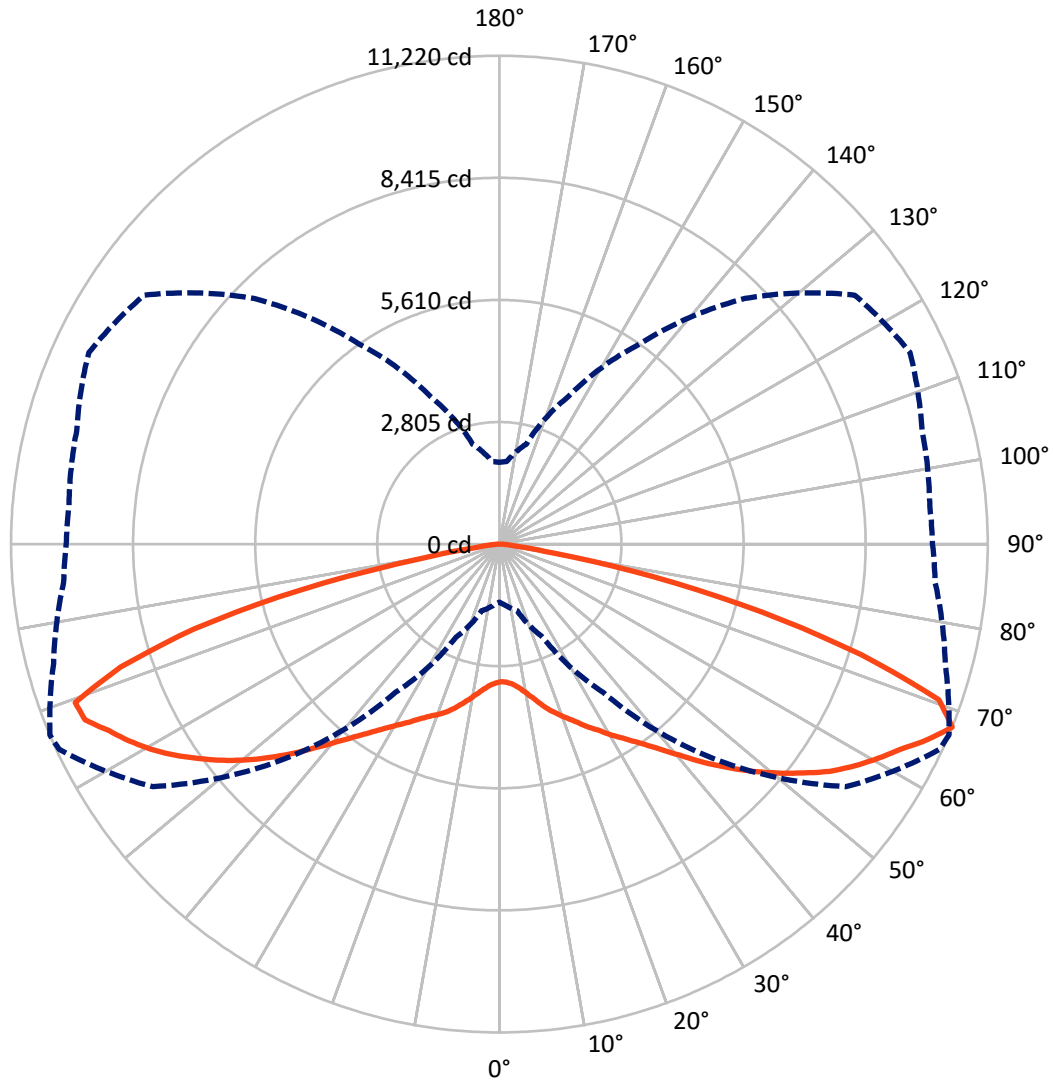
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 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	15427.9	0.0	15427.9
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	15772.2	0.0	15772.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	31200.1	0.0	31200.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.0	1.0
10°-20°	1047.2	3.4
20°-30°	2054.5	6.6
30°-40°	3500.2	11.2
40°-50°	5620.6	18.0
50°-60°	7637.2	24.5
60°-70°	7305.5	23.4
70°-80°	3473.3	11.1
80°-90°	251.7	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°	31200.1	100.0
0°-180°	31200.1	100.0

Coefficient of Utilization



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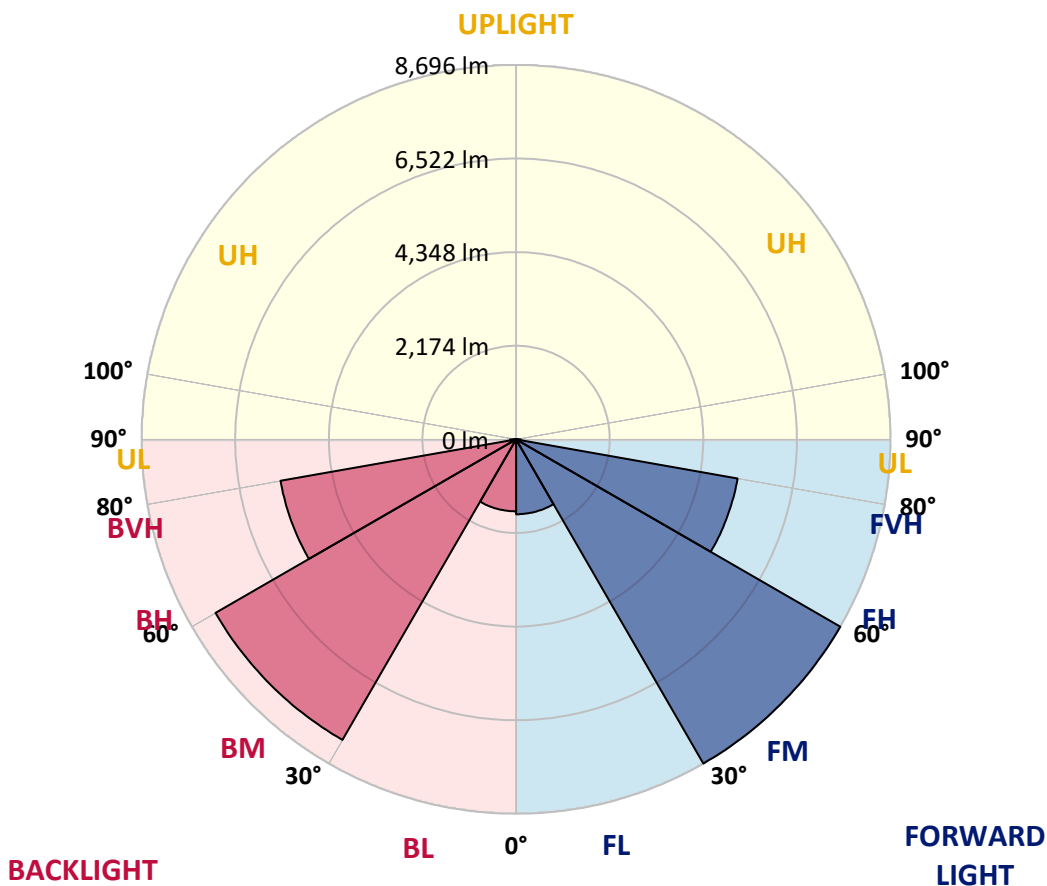
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1739.6	5.6			
FM (30°-60°)	8695.7	27.9			
FH (60°-80°)	5223.7	16.7			G3/7500
FVH (80°-90°)	113.1	0.4			G2/225
BL (0°-30°)	1672.0	5.4	B3/2500		
BM (30°-60°)	8062.3	25.8	B4/8500		
BH (60°-80°)	5555.1	17.8	B5		G5
BVH (80°-90°)	138.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2
2.5°	3094.0	3098.3	3104.9	3117.9	3130.9	3150.5	3170.0	3167.9	3176.6	3183.1	3189.6
5°	3076.6	3081.0	3091.8	3109.2	3128.8	3161.4	3202.6	3220.0	3233.1	3257.0	3278.7
7.5°	3113.6	3122.2	3137.5	3161.4	3191.8	3233.1	3289.5	3320.0	3339.5	3383.0	3419.9
10°	3163.5	3174.4	3204.8	3250.4	3296.1	3359.1	3430.8	3476.4	3489.4	3545.9	3615.5
12.5°	3211.3	3224.4	3274.3	3356.9	3439.5	3524.2	3608.9	3665.4	3669.8	3745.8	3824.0
15°	3287.4	3298.2	3365.6	3472.1	3598.1	3715.4	3819.7	3858.8	3876.2	3930.5	4028.3
17.5°	3454.7	3467.7	3554.6	3669.8	3802.3	3926.2	4030.5	4063.0	4063.0	4108.7	4189.1
20°	3635.0	3648.1	3763.2	3911.0	4071.7	4197.8	4278.2	4247.7	4236.9	4249.9	4306.4
22.5°	3837.1	3861.0	3971.8	4143.4	4341.2	4495.4	4536.7	4445.5	4415.0	4384.6	4397.7
25°	4095.6	4123.9	4232.5	4415.0	4608.4	4771.4	4795.3	4654.0	4636.7	4530.2	4491.1
27.5°	4393.3	4415.0	4549.7	4730.1	4910.4	5047.3	5073.4	4899.6	4840.9	4693.1	4601.9
30°	4777.9	4797.4	4914.8	5092.9	5249.4	5345.0	5377.6	5138.6	5092.9	4867.0	4725.7
32.5°	5197.2	5205.9	5325.4	5497.1	5636.1	5727.4	5681.8	5403.6	5336.3	5082.1	4888.7
35°	5677.4	5677.4	5831.7	5970.7	6081.5	6107.6	6020.7	5703.5	5625.3	5349.3	5108.1
37.5°	6148.9	6161.9	6305.3	6470.5	6568.2	6563.9	6405.3	6057.6	5968.6	5668.7	5401.5
40°	6659.5	6687.7	6831.1	7015.8	7109.3	7096.2	6852.9	6466.1	6374.9	6020.7	5760.0
42.5°	7128.8	7174.4	7341.7	7530.8	7632.9	7624.2	7370.0	6935.4	6846.3	6446.6	6185.8
45°	7502.5	7550.3	7758.9	8021.8	8184.8	8169.6	7913.2	7422.1	7313.5	6894.1	6607.3
47.5°	7830.6	7880.6	8113.1	8391.2	8649.7	8675.8	8441.1	7913.2	7798.0	7374.3	7050.6
50°	8082.6	8106.5	8367.3	8671.5	8971.3	9116.9	8912.6	8406.4	8267.3	7848.0	7483.0
52.5°	8063.1	8095.7	8417.2	8830.1	9232.0	9471.0	9329.8	8871.4	8736.6	8280.4	7924.0
55°	7665.5	7698.1	8080.5	8682.3	9377.6	9729.6	9714.4	9314.6	9216.8	8721.4	8382.5
57.5°	7085.4	7157.1	7537.3	8186.9	9186.4	9936.0	9996.8	9718.7	9616.6	9153.8	8836.6
60°	6046.8	6142.4	6581.3	7424.3	8573.7	9866.5	10298.9	10059.9	9996.8	9555.8	9247.2
62.5°	4393.3	4462.8	5047.3	6153.2	7665.5	9371.1	10553.1	10411.8	10364.0	9916.4	9618.8
65°	2631.2	2789.8	3259.1	4352.0	6183.7	8436.8	10414.0	10872.5	10822.5	10288.0	9936.0
67.5°	1331.9	1403.6	1588.3	2359.6	4158.7	6981.1	9716.6	11159.3	11220.1	10605.2	10049.0
70°	825.6	845.2	897.3	1164.6	2077.2	4586.7	7945.8	10411.8	10709.5	10555.2	9755.7
72.5°	662.7	667.0	675.7	725.7	997.3	2144.5	5023.4	8154.3	8691.0	9857.8	9336.3
75°	549.7	551.9	554.1	569.3	621.4	875.6	2444.3	5603.5	6231.5	8378.1	8656.3
77.5°	441.1	430.2	438.9	445.4	458.5	488.9	843.0	2989.7	3626.3	5499.2	6694.3
80°	286.8	282.5	299.8	306.4	319.4	338.9	449.8	1014.7	1232.0	2001.1	2129.3
82.5°	154.3	145.6	182.5	176.0	182.5	197.7	265.1	371.5	417.2	604.0	510.6
85°	47.8	47.8	50.0	58.7	71.7	69.5	115.2	182.5	202.1	258.6	191.2
87.5°	8.7	8.7	8.7	8.7	8.7	10.9	23.9	36.9	50.0	89.1	67.4
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°	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2	3159.2
2.5°	3202.6	3183.1	3193.9	3200.5	3198.3	3193.9	3172.2	3167.9	3157.0	3139.6	3135.3
5°	3298.2	3276.5	3278.7	3272.2	3250.4	3222.2	3174.4	3150.5	3130.9	3109.2	3107.0
7.5°	3448.2	3424.3	3417.7	3387.3	3326.5	3261.3	3185.3	3141.8	3109.2	3081.0	3076.6
10°	3639.4	3615.5	3593.7	3522.0	3422.1	3335.2	3235.2	3172.2	3124.4	3089.7	3083.1
12.5°	3852.3	3832.7	3778.4	3674.1	3554.6	3452.5	3350.4	3272.2	3202.6	3150.5	3144.0
15°	4089.1	4045.7	3963.1	3828.4	3715.4	3632.8	3509.0	3402.5	3291.7	3222.2	3207.0
17.5°	4254.3	4217.3	4119.5	3989.2	3900.1	3828.4	3682.8	3530.7	3380.8	3278.7	3257.0
20°	4371.6	4332.5	4221.7	4126.1	4097.8	4037.0	3867.5	3691.5	3517.7	3391.7	3363.4
22.5°	4456.3	4415.0	4302.1	4254.3	4293.4	4282.5	4117.4	3917.5	3711.1	3561.1	3526.4
25°	4536.7	4497.6	4397.7	4415.0	4519.3	4551.9	4373.8	4141.3	3906.6	3730.6	3689.3
27.5°	4612.8	4562.8	4517.2	4612.8	4760.5	4821.3	4632.3	4369.4	4115.2	3934.9	3902.3
30°	4730.1	4671.4	4664.9	4804.0	5038.6	5090.8	4882.2	4619.3	4367.2	4184.7	4143.4
32.5°	4877.8	4823.5	4827.9	5036.4	5308.0	5351.5	5173.3	4927.8	4675.8	4493.3	4436.8
35°	5077.7	5010.4	5047.3	5303.7	5577.5	5657.9	5514.4	5310.2	5064.7	4877.8	4814.8
37.5°	5353.7	5255.9	5331.9	5601.4	5877.3	5996.8	5886.0	5733.9	5490.5	5301.5	5242.9
40°	5705.7	5625.3	5655.7	5953.3	6238.0	6381.4	6311.8	6161.9	5920.8	5723.0	5655.7
42.5°	6122.8	6042.4	6031.6	6348.8	6633.4	6850.7	6783.3	6646.5	6396.6	6170.6	6105.4
45°	6531.3	6457.4	6472.6	6796.4	7115.8	7352.6	7285.2	7124.5	6852.9	6592.1	6540.0
47.5°	6957.2	6896.3	6909.4	7252.7	7604.6	7841.5	7756.7	7561.2	7244.0	6965.8	6902.8
50°	7393.9	7324.4	7343.9	7704.6	8084.8	8308.6	8178.2	7889.3	7539.5	7267.9	7213.5
52.5°	7828.4	7745.9	7795.8	8137.0	8530.2	8708.4	8467.2	8117.4	7778.5	7509.0	7448.2
55°	8328.2	8241.3	8186.9	8552.0	8940.9	9014.8	8684.5	8276.0	7874.1	7567.7	7530.8
57.5°	8784.4	8710.6	8608.5	8973.5	9260.3	9206.0	8851.8	8232.6	7641.6	7248.3	7196.2
60°	9192.9	9129.9	9040.8	9351.5	9481.9	9360.2	8717.1	7717.6	7068.0	6657.3	6633.4
62.5°	9568.8	9501.5	9418.9	9684.0	9666.6	9384.1	8104.4	6926.7	6057.6	5616.6	5577.5
65°	9866.5	9805.6	9781.7	9990.3	9962.1	8917.0	7150.5	5631.8	4425.9	3928.3	3913.1
67.5°	9951.2	9927.3	10055.5	10409.7	9968.6	7978.4	5607.9	3735.0	2377.0	1905.5	1877.3
70°	9634.0	9631.8	9999.0	10505.3	9064.7	6094.6	3309.1	1683.9	1195.0	1060.3	1042.9
72.5°	9221.2	9214.6	9505.8	9062.6	6722.5	3335.2	1392.7	901.7	747.4	710.5	710.5
75°	8543.3	8525.9	8745.3	6894.1	3780.6	1255.9	738.7	619.2	586.6	580.1	580.1
77.5°	6963.7	6818.1	6472.6	4260.8	1318.9	617.1	488.9	486.7	467.1	465.0	465.0
80°	2290.1	2290.1	2661.6	1625.2	582.3	380.2	345.5	362.8	343.3	330.3	328.1
82.5°	373.7	514.9	732.2	465.0	315.0	236.8	212.9	226.0	236.8	189.0	189.0
85°	147.7	193.4	282.5	217.3	145.6	95.6	102.1	113.0	99.9	86.9	84.7
87.5°	56.5	69.5	99.9	52.1	30.4	17.4	10.9	10.9	8.7	8.7	8.7
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)