

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: P640723

Luminaire Tested: GWS-SA5E-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640723
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-SA5E-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38645.3 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

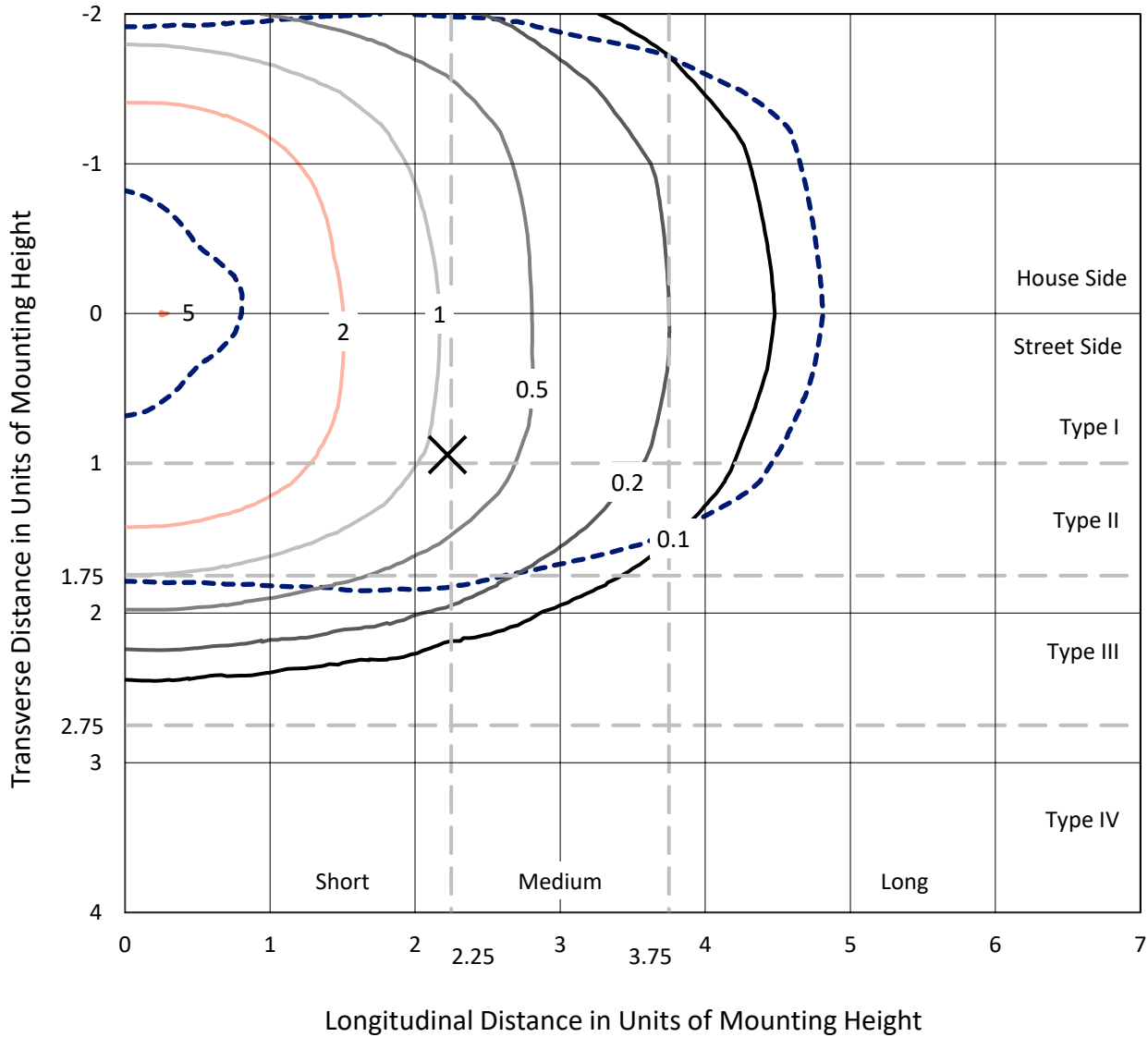
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

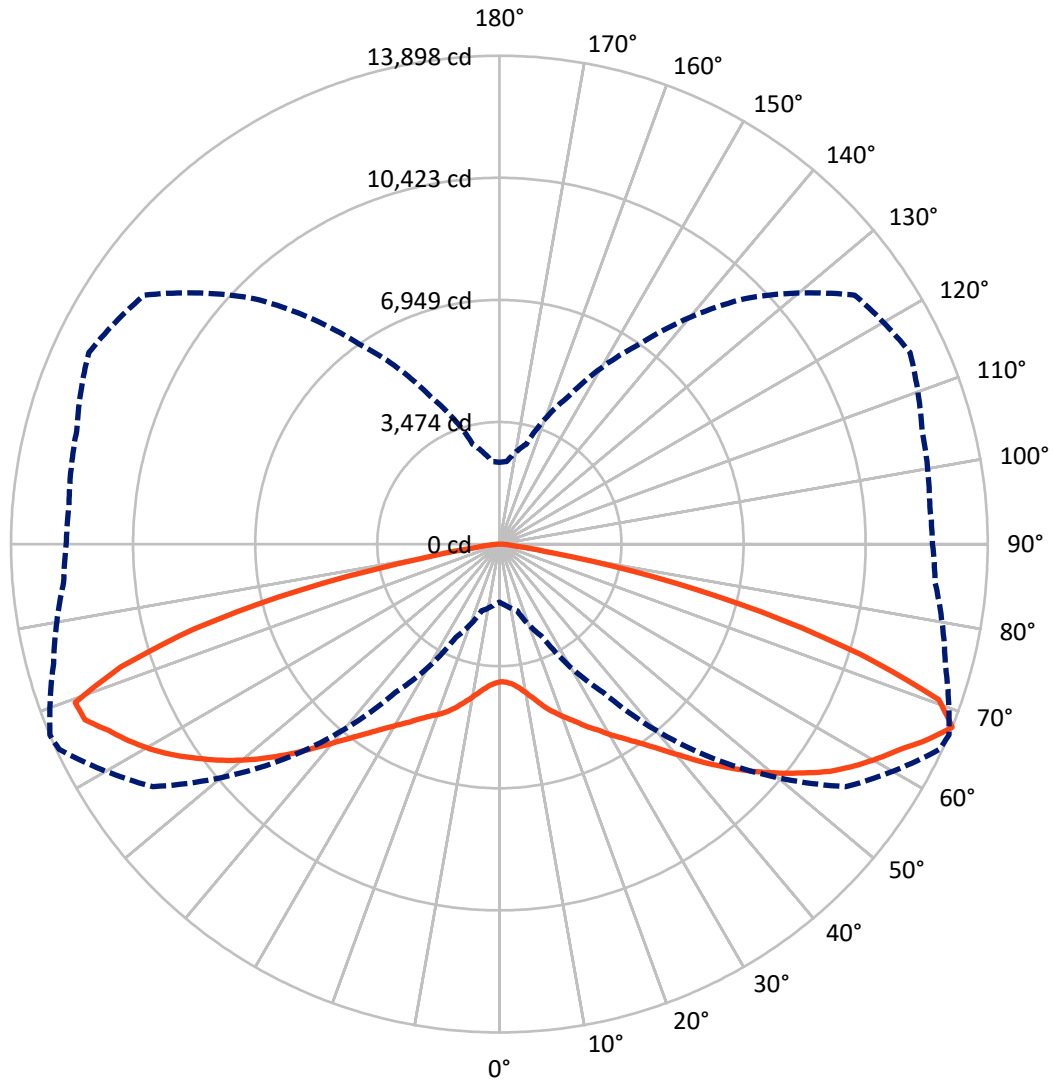
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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	19109.4	0.0	19109.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	19535.9	0.0	19535.9
	% Fixture	50.6	0.0	50.6
Total	Lumens	38645.3	0.0	38645.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.9	1.0
10°-20°	1297.0	3.4
20°-30°	2544.7	6.6
30°-40°	4335.4	11.2
40°-50°	6961.8	18.0
50°-60°	9459.7	24.5
60°-70°	9048.8	23.4
70°-80°	4302.1	11.1
80°-90°	311.8	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°	38645.3	100.0
0°-180°	38645.3	100.0

Coefficient of Utilization



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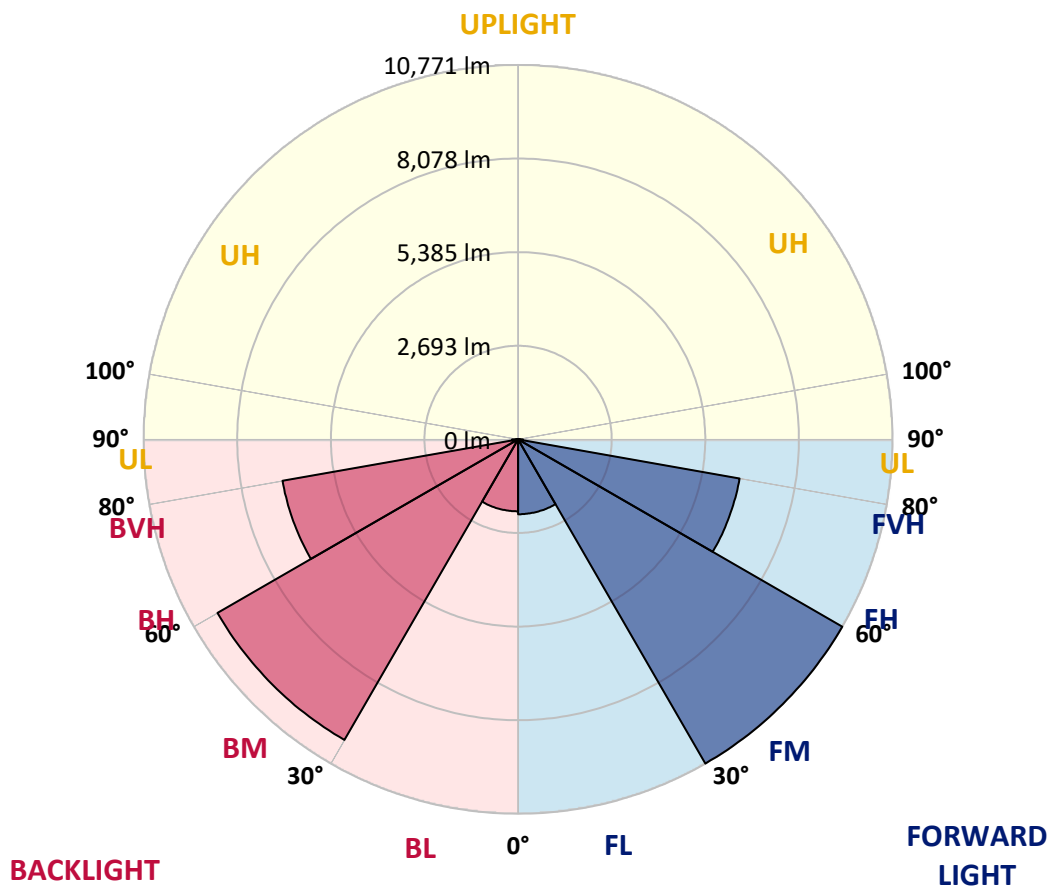
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2154.8	5.6			
FM (30°-60°)	10770.8	27.9			
FH (60°-80°)	6470.2	16.7			G3/7500
FVH (80°-90°)	140.1	0.4			G2/225
BL (0°-30°)	2070.9	5.4	B3/2500		
BM (30°-60°)	9986.1	25.8	B5		
BH (60°-80°)	6880.7	17.8	B5		G5
BVH (80°-90°)	171.6	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°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3832.3	3837.7	3845.8	3861.9	3878.1	3902.3	3926.5	3923.8	3934.6	3942.7	3950.7
5°	3810.8	3816.2	3829.6	3851.2	3875.4	3915.7	3966.9	3988.4	4004.6	4034.2	4061.1
7.5°	3856.5	3867.3	3886.1	3915.7	3953.4	4004.6	4074.5	4112.2	4136.4	4190.2	4236.0
10°	3918.4	3931.9	3969.6	4026.1	4082.6	4160.6	4249.5	4306.0	4322.1	4392.1	4478.2
12.5°	3977.6	3993.8	4055.7	4158.0	4260.2	4365.2	4470.1	4540.1	4545.5	4639.7	4736.6
15°	4071.8	4085.3	4168.7	4300.6	4456.7	4602.0	4731.2	4779.6	4801.2	4868.4	4989.5
17.5°	4279.1	4295.2	4402.9	4545.5	4709.7	4863.1	4992.2	5032.6	5032.6	5089.1	5188.7
20°	4502.4	4518.6	4661.2	4844.2	5043.4	5199.5	5299.0	5261.4	5247.9	5264.1	5334.0
22.5°	4752.7	4782.3	4919.6	5132.2	5377.1	5568.2	5619.3	5506.3	5468.6	5430.9	5447.1
25°	5073.0	5108.0	5242.5	5468.6	5708.1	5909.9	5939.6	5764.6	5743.1	5611.2	5562.8
27.5°	5441.7	5468.6	5635.4	5858.8	6082.2	6251.7	6284.0	6068.7	5996.1	5813.1	5700.0
30°	5918.0	5942.2	6087.6	6308.2	6502.0	6620.4	6660.8	6364.8	6308.2	6028.4	5853.4
32.5°	6437.4	6448.2	6596.2	6808.8	6981.1	7094.1	7037.6	6693.1	6609.7	6294.8	6055.3
35°	7032.2	7032.2	7223.3	7395.5	7532.8	7565.1	7457.4	7064.5	6967.6	6625.8	6327.1
37.5°	7616.2	7632.3	7810.0	8014.5	8135.6	8130.2	7933.8	7503.2	7392.8	7021.4	6690.4
40°	8248.6	8283.6	8461.2	8690.0	8805.7	8789.6	8488.1	8009.1	7896.1	7457.4	7134.5
42.5°	8829.9	8886.4	9093.7	9327.8	9454.3	9443.5	9128.7	8590.4	8480.1	7984.9	7661.9
45°	9292.8	9352.0	9610.4	9936.0	10137.9	10119.0	9801.5	9193.3	9058.7	8539.3	8184.0
47.5°	9699.2	9761.1	10049.1	10393.5	10713.8	10746.1	10455.4	9801.5	9658.8	9134.0	8733.0
50°	10011.4	10041.0	10363.9	10740.7	11112.1	11292.4	11039.4	10412.4	10240.1	9720.7	9268.6
52.5°	9987.2	10027.5	10425.8	10937.2	11435.0	11731.1	11556.2	10988.3	10821.4	10256.3	9814.9
55°	9494.7	9535.0	10008.7	10754.2	11615.4	12051.3	12032.5	11537.3	11416.2	10802.6	10382.8
57.5°	8776.1	8864.9	9335.9	10140.6	11378.5	12307.0	12382.4	12037.9	11911.4	11338.2	10945.2
60°	7489.7	7608.1	8151.7	9195.9	10619.6	12220.9	12756.4	12460.4	12382.4	11836.0	11453.9
62.5°	5441.7	5527.8	6251.7	7621.6	9494.7	11607.3	13071.3	12896.4	12837.2	12282.8	11914.1
65°	3259.1	3455.5	4036.8	5390.5	7659.2	10450.1	12899.1	13466.9	13405.0	12743.0	12307.0
67.5°	1649.7	1738.5	1967.3	2922.7	5151.0	8646.9	12035.2	13822.2	13897.5	13135.9	12447.0
70°	1022.7	1046.9	1111.5	1442.5	2572.8	5681.2	9841.8	12896.4	13265.1	13074.0	12083.6
72.5°	820.8	826.2	837.0	898.9	1235.3	2656.2	6222.1	10100.2	10764.9	12210.1	11564.2
75°	680.9	683.6	686.3	705.1	769.7	1084.6	3027.6	6940.7	7718.5	10377.4	10721.9
77.5°	546.3	532.9	543.6	551.7	567.9	605.5	1044.2	3703.1	4491.7	6811.5	8291.7
80°	355.2	349.9	371.4	379.5	395.6	419.8	557.1	1256.8	1525.9	2478.6	2637.4
82.5°	191.1	180.3	226.1	218.0	226.1	244.9	328.3	460.2	516.7	748.2	632.4
85°	59.2	59.2	61.9	72.7	88.8	86.1	142.6	226.1	250.3	320.3	236.8
87.5°	10.8	10.8	10.8	10.8	10.8	13.5	29.6	45.8	61.9	110.3	83.4
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°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3966.9	3942.7	3956.1	3964.2	3961.5	3956.1	3929.2	3923.8	3910.4	3888.8	3883.4
5°	4085.3	4058.4	4061.1	4053.0	4026.1	3991.1	3931.9	3902.3	3878.1	3851.2	3848.5
7.5°	4271.0	4241.4	4233.3	4195.6	4120.3	4039.5	3945.3	3891.5	3851.2	3816.2	3810.8
10°	4507.8	4478.2	4451.3	4362.5	4238.7	4131.0	4007.2	3929.2	3870.0	3826.9	3818.9
12.5°	4771.6	4747.3	4680.1	4550.9	4402.9	4276.4	4149.9	4053.0	3966.9	3902.3	3894.2
15°	5064.9	5011.1	4908.8	4742.0	4602.0	4499.7	4346.3	4214.5	4077.2	3991.1	3972.3
17.5°	5269.4	5223.7	5102.6	4941.1	4830.8	4742.0	4561.6	4373.3	4187.6	4061.1	4034.2
20°	5414.8	5366.3	5229.1	5110.7	5075.7	5000.3	4790.4	4572.4	4357.1	4201.0	4166.0
22.5°	5519.7	5468.6	5328.6	5269.4	5317.9	5304.4	5099.9	4852.3	4596.6	4410.9	4367.9
25°	5619.3	5570.9	5447.1	5468.6	5597.8	5638.1	5417.5	5129.5	4838.8	4620.8	4569.7
27.5°	5713.5	5651.6	5595.1	5713.5	5896.5	5971.8	5737.7	5412.1	5097.2	4873.8	4833.5
30°	5858.8	5786.1	5778.1	5950.3	6241.0	6305.6	6047.2	5721.6	5409.4	5183.3	5132.2
32.5°	6041.8	5974.5	5979.9	6238.3	6574.7	6628.5	6407.8	6103.7	5791.5	5565.5	5495.5
35°	6289.4	6206.0	6251.7	6569.3	6908.4	7008.0	6830.3	6577.4	6273.3	6041.8	5963.8
37.5°	6631.2	6510.1	6604.3	6938.0	7279.8	7427.8	7290.5	7102.2	6800.7	6566.6	6493.9
40°	7067.2	6967.6	7005.3	7374.0	7726.5	7904.1	7818.0	7632.3	7333.6	7088.7	7005.3
42.5°	7583.9	7484.3	7470.9	7863.8	8216.3	8485.5	8402.0	8232.5	7923.0	7643.1	7562.4
45°	8089.8	7998.3	8017.2	8418.2	8813.8	9107.1	9023.7	8824.6	8488.1	8165.2	8100.6
47.5°	8617.3	8542.0	8558.1	8983.3	9419.3	9712.7	9607.7	9365.5	8972.6	8628.1	8550.0
50°	9158.3	9072.1	9096.4	9543.1	10014.1	10291.3	10129.8	9771.9	9338.6	9002.2	8934.9
52.5°	9696.5	9594.2	9656.1	10078.7	10565.8	10786.5	10487.7	10054.4	9634.6	9300.9	9225.5
55°	10315.5	10207.8	10140.6	10592.7	11074.4	11165.9	10756.9	10250.9	9753.0	9373.6	9327.8
57.5°	10880.7	10789.2	10662.7	11114.8	11470.0	11402.8	10964.1	10197.1	9465.1	8978.0	8913.4
60°	11386.6	11308.6	11198.2	11583.1	11744.5	11593.8	10797.2	9559.3	8754.6	8245.9	8216.3
62.5°	11852.2	11768.8	11666.5	11994.8	11973.3	11623.4	10038.3	8579.6	7503.2	6956.8	6908.4
65°	12220.9	12145.5	12115.9	12374.3	12339.3	11044.8	8856.8	6975.7	5482.0	4865.7	4846.9
67.5°	12325.8	12296.2	12455.0	12893.7	12347.4	9882.2	6946.1	4626.2	2944.2	2360.2	2325.2
70°	11932.9	11930.2	12385.1	13012.1	11227.8	7548.9	4098.7	2085.7	1480.2	1313.3	1291.8
72.5°	11421.6	11413.5	11774.1	11225.1	8326.7	4131.0	1725.1	1116.9	925.8	880.0	880.0
75°	10581.9	10560.4	10832.2	8539.3	4682.7	1555.5	915.0	767.0	726.6	718.6	718.6
77.5°	8625.4	8445.1	8017.2	5277.5	1633.6	764.3	605.5	602.8	578.6	575.9	575.9
80°	2836.6	2836.6	3296.8	2013.0	721.3	471.0	427.9	449.4	425.2	409.1	406.4
82.5°	462.9	637.8	906.9	575.9	390.2	293.3	263.7	279.9	293.3	234.1	234.1
85°	183.0	239.5	349.9	269.1	180.3	118.4	126.5	139.9	123.8	107.6	105.0
87.5°	70.0	86.1	123.8	64.6	37.7	21.5	13.5	13.5	10.8	10.8	10.8
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)