

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: P633352

Luminaire Tested: GWS-SA2E-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-750-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13157.3 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

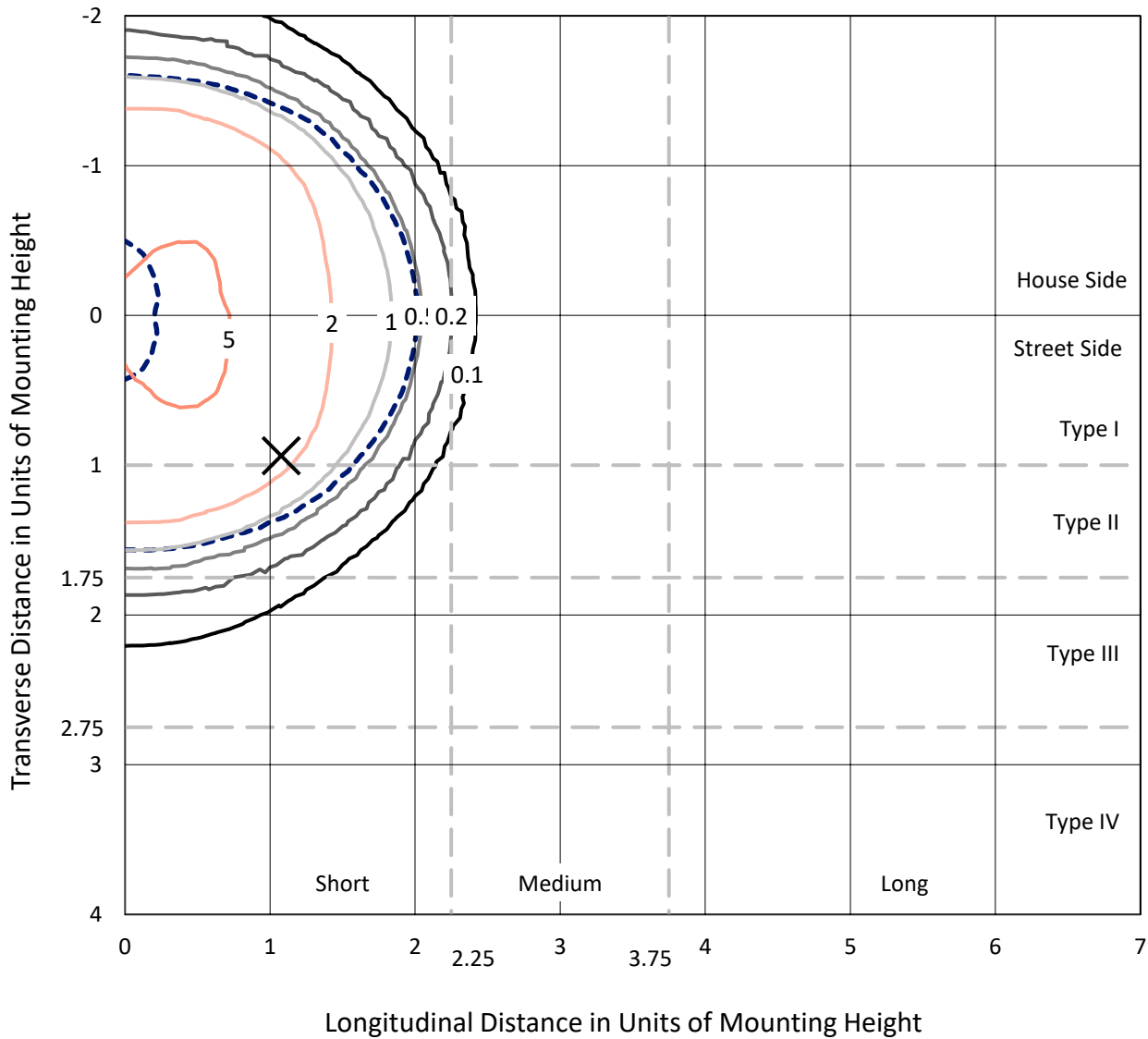
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

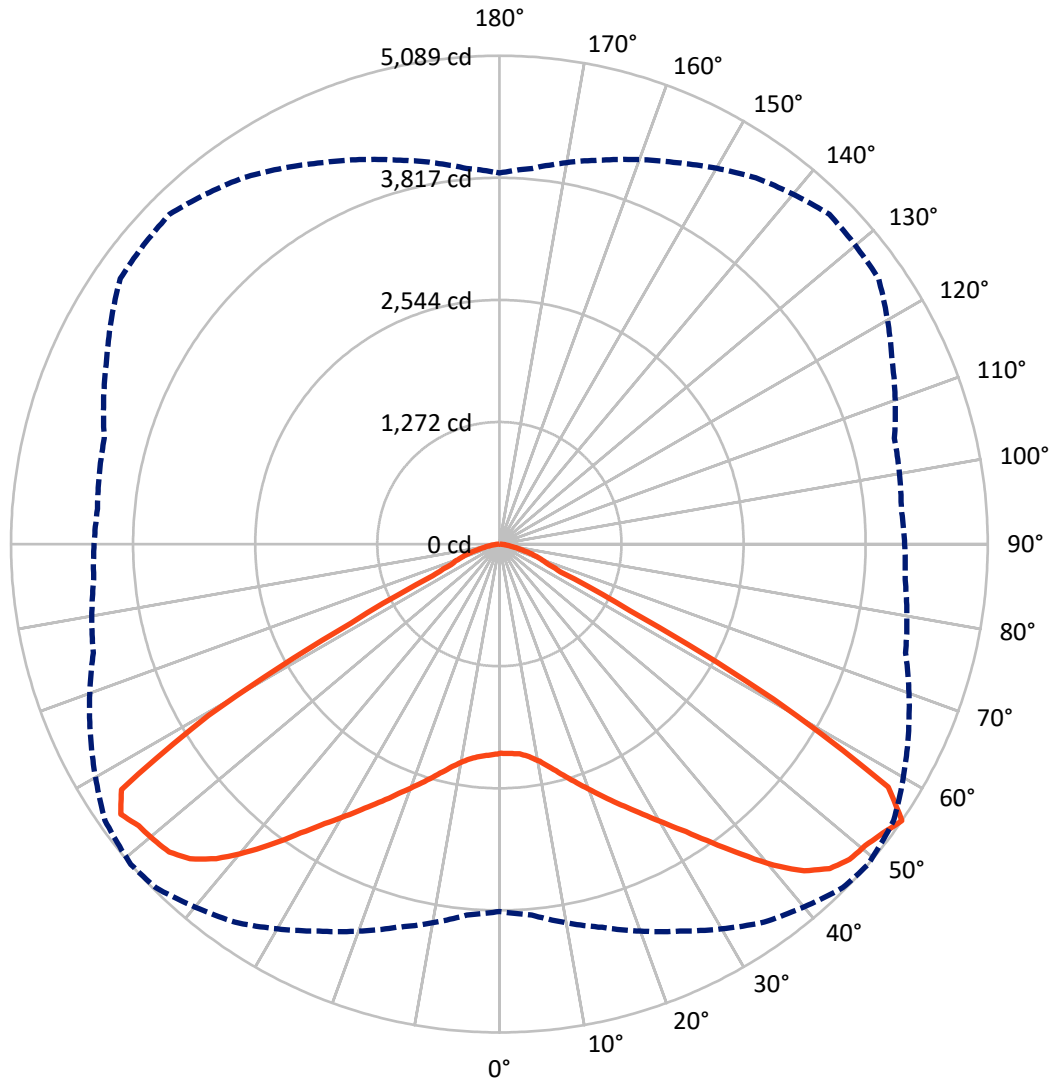
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6514.1	0.0	6514.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	6643.2	0.0	6643.2
	% Fixture	50.5	0.0	50.5
Total	Lumens	13157.3	0.0	13157.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	1.6
10°-20°	701.3	5.3
20°-30°	1335.8	10.2
30°-40°	2264.5	17.2
40°-50°	3407.8	25.9
50°-60°	3730.2	28.4
60°-70°	1179.5	9.0
70°-80°	283.1	2.2
80°-90°	42.5	0.3
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°	13157.3	100.0
0°-180°	13157.3	100.0

Coefficient of Utilization



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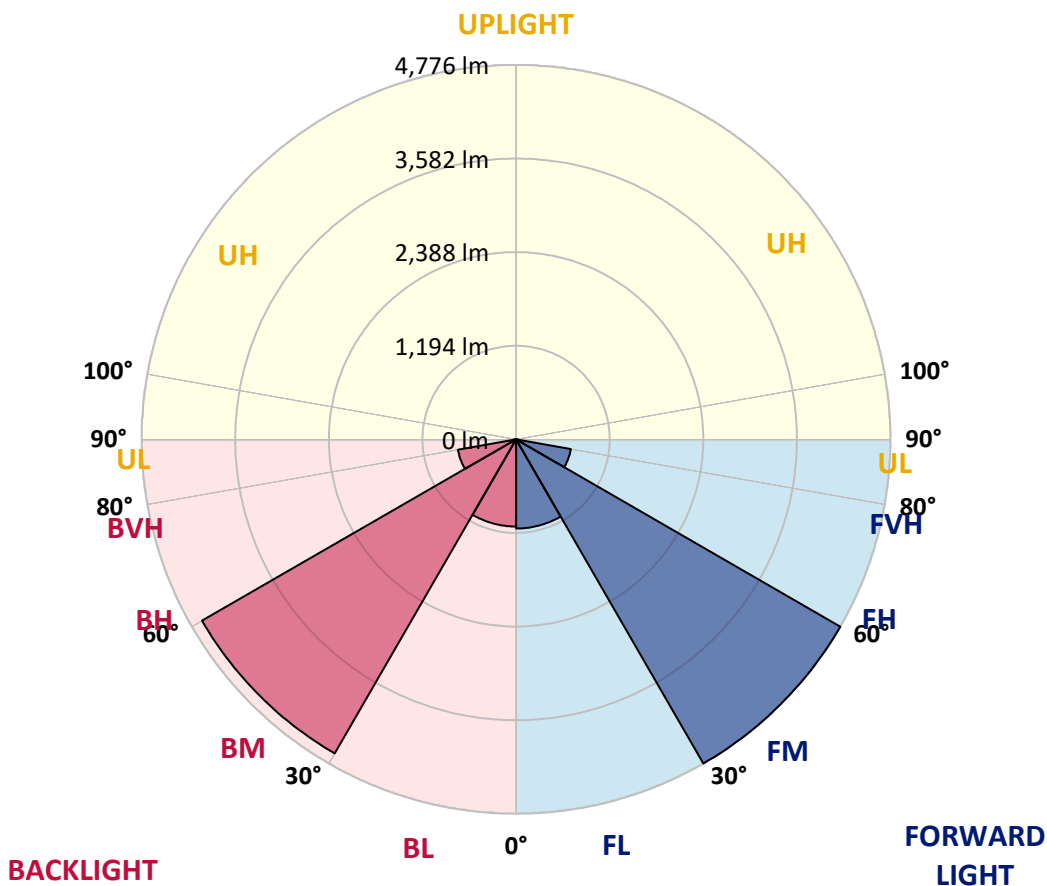
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1137.6	8.6			
FM (30°-60°)	4776.5	36.3			
FH (60°-80°)	709.5	5.4			G1/1800
FVH (80°-90°)	19.7	0.1			G1/100
BL (0°-30°)	1112.2	8.5	B3/2500		
BM (30°-60°)	4626.0	35.2	B3/5000		
BH (60°-80°)	753.1	5.7	B2/1000		G1/1800
BVH (80°-90°)	22.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6
2.5°	2147.5	2149.6	2153.9	2161.4	2168.9	2179.6	2183.9	2189.2	2188.1	2194.6	2194.6
5°	2136.8	2140.0	2146.4	2157.1	2170.0	2190.3	2195.6	2208.5	2221.3	2237.4	2242.7
7.5°	2149.6	2153.9	2161.4	2178.5	2197.8	2224.5	2235.2	2256.6	2281.2	2310.1	2321.9
10°	2174.2	2179.6	2192.4	2220.2	2251.3	2291.9	2301.6	2328.3	2367.9	2407.5	2431.0
12.5°	2202.1	2210.6	2234.2	2278.0	2324.0	2377.5	2392.5	2425.7	2468.5	2519.8	2551.9
15°	2234.2	2241.6	2278.0	2340.1	2411.8	2482.4	2499.5	2531.6	2579.8	2630.1	2675.0
17.5°	2301.6	2314.4	2357.2	2428.9	2512.4	2595.8	2615.1	2651.5	2690.0	2729.6	2772.4
20°	2393.6	2404.3	2458.9	2547.7	2646.1	2722.1	2741.3	2773.4	2791.6	2812.0	2848.3
22.5°	2485.6	2500.6	2562.6	2667.5	2783.1	2865.5	2880.4	2910.4	2897.6	2891.1	2914.7
25°	2600.1	2620.4	2681.4	2795.9	2913.6	3015.3	3027.0	3052.7	3031.3	2998.1	2997.1
27.5°	2742.4	2760.6	2823.7	2941.4	3058.1	3164.0	3186.5	3220.7	3173.6	3133.0	3104.1
30°	2911.5	2923.2	2992.8	3118.0	3237.8	3338.4	3367.3	3401.5	3366.2	3298.8	3269.9
32.5°	3108.3	3124.4	3204.6	3336.3	3443.3	3543.8	3572.7	3615.5	3577.0	3501.0	3464.7
35°	3344.8	3360.9	3445.4	3588.8	3697.9	3801.7	3822.0	3857.3	3809.2	3721.5	3692.6
37.5°	3601.6	3621.9	3728.9	3864.8	3979.3	4100.2	4101.3	4112.0	4043.5	3934.4	3902.3
40°	3890.5	3917.3	4024.3	4165.5	4303.5	4402.0	4400.9	4370.9	4255.4	4086.3	4037.1
42.5°	4176.2	4197.6	4305.7	4451.2	4589.2	4682.3	4654.5	4581.7	4414.8	4184.8	4119.5
45°	4382.7	4398.8	4512.2	4675.9	4816.1	4873.8	4823.6	4735.8	4510.0	4246.8	4150.5
47.5°	4480.1	4501.5	4616.0	4778.6	4937.0	4970.1	4910.2	4827.8	4565.7	4304.6	4175.1
50°	4427.7	4455.5	4584.9	4735.8	4914.5	4983.0	4940.2	4857.8	4624.5	4361.3	4219.0
52.5°	4291.8	4318.5	4482.2	4665.2	4867.4	5003.3	5002.2	4934.8	4691.9	4377.4	4221.1
55°	3827.4	3879.8	4134.5	4450.1	4809.6	5063.2	5088.9	5017.2	4702.6	4381.6	4243.6
57.5°	2491.0	2583.0	2824.8	3235.7	3956.9	4605.3	4778.6	4795.7	4625.6	4363.5	4247.9
60°	1040.0	1113.9	1305.4	1578.2	2174.2	2945.7	3281.7	3618.7	4025.3	4173.0	4208.3
62.5°	646.3	652.7	672.0	734.0	933.0	1309.7	1525.8	1841.5	2446.0	2960.7	3198.2
65°	583.1	586.4	590.6	586.4	596.0	642.0	699.8	810.0	1056.1	1311.8	1615.7
67.5°	513.6	517.9	521.1	517.9	521.1	523.2	529.6	539.3	584.2	620.6	648.4
70°	415.2	421.6	426.9	424.8	437.6	437.6	444.0	451.5	474.0	500.8	520.0
72.5°	316.7	311.4	317.8	319.9	331.7	338.1	347.7	356.3	382.0	398.0	422.6
75°	205.4	200.1	209.7	215.1	231.1	239.7	248.2	256.8	275.0	285.7	309.2
77.5°	111.3	110.2	119.8	127.3	144.4	155.1	161.6	168.0	183.0	186.2	201.2
80°	64.2	64.2	70.6	76.0	86.7	98.4	104.9	110.2	120.9	124.1	130.5
82.5°	35.3	35.3	38.5	41.7	50.3	56.7	62.1	66.3	76.0	79.2	82.4
85°	17.1	16.0	18.2	20.3	23.5	26.7	30.0	32.1	39.6	41.7	46.0
87.5°	2.1	2.1	2.1	3.2	4.3	6.4	7.5	7.5	11.8	13.9	16.0
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°	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6	2179.6
2.5°	2201.0	2187.1	2195.6	2198.8	2198.8	2195.6	2181.7	2177.4	2171.0	2161.4	2161.4
5°	2250.2	2239.5	2241.6	2236.3	2223.5	2207.4	2181.7	2168.9	2158.2	2146.4	2145.3
7.5°	2334.7	2320.8	2318.7	2298.4	2264.1	2229.9	2191.4	2167.8	2151.8	2136.8	2135.7
10°	2444.9	2432.1	2416.1	2375.4	2325.1	2274.8	2222.4	2190.3	2166.7	2145.3	2144.3
12.5°	2568.0	2553.0	2523.1	2463.1	2400.0	2350.8	2290.9	2241.6	2206.3	2177.4	2172.1
15°	2701.7	2680.3	2629.0	2558.4	2496.3	2443.9	2379.7	2309.1	2255.6	2209.5	2204.2
17.5°	2804.5	2776.6	2721.0	2654.7	2603.3	2550.9	2467.4	2378.6	2301.6	2243.8	2235.2
20°	2875.1	2852.6	2789.5	2740.3	2710.3	2664.3	2566.9	2466.3	2379.7	2306.9	2302.6
22.5°	2940.4	2913.6	2851.5	2822.7	2822.7	2791.6	2698.5	2579.8	2478.1	2393.6	2382.9
25°	3014.2	2985.3	2938.2	2935.0	2950.0	2936.1	2823.7	2696.4	2577.6	2482.4	2465.3
27.5°	3116.9	3084.8	3057.0	3076.2	3097.6	3082.7	2957.5	2809.8	2684.6	2588.3	2573.3
30°	3280.6	3241.0	3215.3	3238.9	3280.6	3236.7	3100.9	2944.6	2818.4	2712.4	2705.0
32.5°	3471.1	3426.1	3399.4	3436.8	3474.3	3405.8	3271.0	3121.2	2988.5	2877.2	2864.4
35°	3700.1	3643.3	3603.8	3654.0	3692.6	3625.2	3491.4	3349.1	3201.4	3085.9	3068.8
37.5°	3903.4	3834.9	3808.1	3878.7	3930.1	3886.2	3740.7	3607.0	3445.4	3319.1	3311.6
40°	4051.0	3983.6	3964.3	4081.0	4170.9	4160.2	4029.6	3876.6	3724.7	3579.1	3565.2
42.5°	4115.2	4068.1	4072.4	4229.7	4368.8	4437.3	4320.7	4156.9	4010.4	3859.5	3849.9
45°	4129.1	4100.2	4134.5	4331.4	4514.3	4654.5	4555.0	4418.0	4252.2	4106.7	4102.4
47.5°	4144.1	4128.1	4180.5	4389.1	4606.3	4769.0	4713.3	4572.1	4404.1	4261.8	4251.1
50°	4179.4	4173.0	4231.8	4429.8	4650.2	4800.0	4736.9	4596.7	4424.4	4284.3	4258.6
52.5°	4190.1	4179.4	4263.9	4492.9	4723.0	4798.9	4663.1	4480.1	4306.7	4150.5	4123.8
55°	4223.3	4204.0	4261.8	4516.5	4823.6	4861.0	4658.8	4384.9	4143.0	3930.1	3867.0
57.5°	4231.8	4210.4	4247.9	4477.9	4714.4	4681.2	4094.9	3538.5	3082.7	2846.2	2872.9
60°	4185.8	4192.3	4128.1	4102.4	3781.4	3338.4	2507.0	2004.1	1574.0	1392.1	1431.7
62.5°	3186.5	3213.2	2993.9	2603.3	2002.0	1586.8	1049.7	815.3	690.1	658.0	663.4
65°	1608.2	1644.6	1416.7	1171.6	871.0	704.1	608.8	589.6	583.1	575.7	575.7
67.5°	636.6	647.3	638.8	598.1	556.4	541.4	537.1	535.0	527.5	523.2	524.3
70°	511.5	520.0	507.2	481.5	464.4	463.3	461.2	456.9	451.5	451.5	454.7
72.5°	417.3	425.9	407.7	391.6	378.8	369.1	363.8	360.6	353.1	353.1	356.3
75°	307.1	312.4	297.5	295.3	281.4	271.8	263.2	258.9	249.3	245.0	248.2
77.5°	204.4	203.3	195.8	195.8	190.5	178.7	169.1	159.4	146.6	138.0	140.2
80°	132.7	132.7	129.5	129.5	124.1	114.5	102.7	93.1	85.6	79.2	79.2
82.5°	84.5	83.5	82.4	81.3	79.2	69.5	61.0	54.6	49.2	44.9	46.0
85°	47.1	47.1	44.9	44.9	40.7	35.3	31.0	26.7	23.5	22.5	22.5
87.5°	16.0	16.0	15.0	15.0	12.8	9.6	7.5	6.4	5.3	4.3	5.3
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)